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About UWF

In this section:
• Accreditation (p. 2)
• Alma Mater (p. 2)
• Chambered Nautilus (p. 2)
• College Mission Statements (p. 3)
• University Vision, Mission, and Values (p. 3)

Accreditation

For information about the University’s institutional-level accreditation status, visit http://uwf.edu/sacscoc.

In addition, specific colleges and programs are nationally accredited by the agencies indicated below.

<table>
<thead>
<tr>
<th>UWF Colleges and Programs</th>
<th>Accrediting Agency</th>
<th>Level of Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athletic Training</td>
<td>Commission on Accreditation of Athletic Training Education (CAATE)</td>
<td>B.S.</td>
</tr>
<tr>
<td>Chemistry</td>
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</tr>
<tr>
<td>Clinical Laboratory Sciences</td>
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<td>B.S.</td>
</tr>
<tr>
<td>College of Business</td>
<td>AACSB International -- The Association to Advance Collegiate Schools of Business</td>
<td>B.S.B.A. M.Acc. M.B.A.</td>
</tr>
<tr>
<td>Computer Engineering</td>
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<td>B.S.C.E.</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>Engineering Accreditation Commission of ABET, Inc.</td>
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</tr>
<tr>
<td>Music</td>
<td>National Association of Schools of Music (NASM)</td>
<td>B.M. B.M.E.</td>
</tr>
<tr>
<td>Nursing</td>
<td>Commission on Collegiate Nursing Education (CCNE)</td>
<td>B.S.N. M.S.N.</td>
</tr>
<tr>
<td>Professional Education Unit/Teacher Education Programs</td>
<td>Council for the Accreditation of Educator Preparation (CAEP)</td>
<td>B.A. M.A. M.Ed. Ed.S. Ed.D.</td>
</tr>
<tr>
<td>Psychology (Counseling &amp; Industrial Organizational Programs)</td>
<td>Masters in Psychology Accreditation Council (MPAC)</td>
<td>M.A.</td>
</tr>
<tr>
<td>Public Health</td>
<td>Council on Education for Public Health (CEPH)</td>
<td>M.P.H.</td>
</tr>
</tbody>
</table>

The Professional Education Unit (including teacher preparation programs in the Department of Teacher Education and Educational Leadership, the Department of Exercise Science & Community Health, the Department of Music, and TeacherReady® (http://www.teacherready.org)) is currently accredited by the National Council for Accreditation of Teacher Education (NCATE (http://ncate.org)). This accreditation covers initial teacher preparation programs (traditional and alternative) and advanced educator preparation programs at the Pensacola and online campuses. However, the accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, relicensure, or other purposes. In preparation to UWF’s upcoming accreditation visit in 2017 the Professional Education Unit is currently aligning the educator preparation programs to the new Council for the Accreditation of Educator Preparation (CAEP (http://caepnet.org)) standards of educator preparation. At the state level, all initial certification programs have received approval by the Florida Department of Education (FLDOE) (http://fldoe.org/profdev/teachprep/university/universitywestflorida.pdf).

Supporting Documentation:
The UWF School of Education Report Card: Title II Report

Alma Mater

Where learning’s light sends forth its beam
Through darkness of our youth,
There you, West Florida, home of dreams
Prepare the way of truth.
You guide us toward tomorrow’s shore
With knowledge of our past;
Your power in us rests secure,
And evermore will last.
Your stately mansions were our home
Where minds and hearts are free
And though we may far from you roam,
We’ll always honor thee.

Composer: Lynn Lauderdale, D.M.A.
Lyricist: A. Michael Yots, Ph.D.

Chambered Nautilus

Build thee more stately mansions, O my soul,
As the swift seasons roll!
Leave thy low-vaulted past!
Let each new temple, nobler than the last,
Shut thee from heaven with a dome more vast,
Till thou at length art free,
Leaving thine outgrown shell by life’s unresting sea!

--Oliver Wendell Holmes’ poem selected by Harold Bryan Crosby, the founding president of The University of West Florida, inspired the university seal. The University’s colors, blue and green, symbolize the sky and the sea, the vast knowledge that humankind has explored and the future yet to be conquered.
College Mission Statements

College of Arts and Sciences
The College of Arts and Sciences challenges students to meet high standards of academic excellence, develop their creativity, and increase their civic engagement as they acquire a broad knowledge base. Faculty actively involve students with discipline-specific concepts, theories, frameworks, and methods as students engage in a full range of scholarly activities and professional service. From a curriculum that emphasizes values and ethics, students develop assessable skills in critical thinking, communication, and project management that provide essential tools for dealing effectively with life in a world of accelerating change and growing diversity.

College of Business
The mission of the College of Business is to provide a high quality, student-orientated, educational experience to baccalaureate and master’s degree business students primarily from the Northwest Florida region. With a focused priority on teaching excellence, supported by scholarship and service, the College of Business prepares students for successful careers in business and society and, in doing so, advances the educational and economic development of Northwest Florida.

College of Professional Studies
The mission of the College of Professional Studies (COPS) is to educate and prepare competent professionals and educators to resolve 21st century problems using the most advanced theoretical, managerial, and technological knowledge, skills, and abilities available. Toward this goal, the College is synergistic, providing training for a wide range and variety of professional careers in public school leadership; engineering and computer technology; public administration; criminal justice and legal studies; teacher education; social work and aging studies; and health, leisure, and exercise science. In support of this mission, College faculty and staff provide for the development of community and regional educational partnerships that assist and benefit students.

Thus, a major emphasis in all professional programs is:
- To undergird each student’s professional program with a strong general educational background;
- To engage students in meaningful community service;
- To include students in collaborative research with faculty supported by strong academic programs;
- To involve students in creative and meaningful activities that enhance their overall educational experiences at UWF

University Vision, Mission, and Values

UWF’s Mission
The University of West Florida (UWF) is a public university based in Northwest Florida with multiple instructional sites and a strong virtual presence. UWF’s mission is to provide students with access to high-quality, relevant, and affordable undergraduate and graduate learning experiences; to transmit, apply, and discover knowledge through teaching, scholarship, research, and public service; and to engage in community partnerships that respond to mutual concerns and opportunities and that advance the economy and quality of life in the region.

UWF is committed to planning and investing strategically to enhance student access and educational attainment; to build on existing strengths and develop distinctive academic and research programs and services that respond to identified regional and state needs; and to support highly qualified faculty and staff who engage students in rigorous, high-impact, student-oriented learning experiences that enhance personal and professional development and empower alumni to contribute responsibly and creatively to a complex 21st Century global society.

UWF’s Vision
The University of West Florida aspires to be widely recognized as a model of excellence and relevance, sought out as a distinctive intellectual and cultural center, valued as an engaged partner, and acclaimed for being “different by design.”

UWF’s Values
UWF’s institutional values, shared by students, faculty, and staff, make the University a great place to learn and to work. UWF is committed to maintaining policies and practices and pursuing initiatives congruent with these articulated values.

Caring: Maintaining a safe and dynamic learning and working environment that fosters the development of individual potential.

Collaboration: Promoting a culture of supportive and cooperative interactions and communication to advance and achieve shared expectations and goals.

Distinctiveness: Choosing to be different by design.

Inclusiveness: Welcoming, respecting, and celebrating the ways in which people and ideas are different and the ways in which they are similar.

Innovation: Exploring, expanding, and enhancing learning and knowledge through transforming experiences.

Integrity: Doing the right thing for the right reason.

Quality: Committed to uncompromising excellence.

Relevance: Adding value to enrich the personal and community lives of stakeholders.

Stewardship: Managing responsibly the resources entrusted to the University.

Strategic Directions and UWF Priorities

Strategic Direction 1: Enhanced Student Access, Progression, and Learning and Development

UWF Priority 1.1. Foster student learning and development to include the knowledge, skills, and dispositions that optimize students’ prospects for personal and professional success.

UWF Priority 1.2. Facilitate students’ access to and choice of the University of West Florida to meet their higher education needs.

UWF Priority 1.3. Improve student persistence and timely progression to degree attainment.

Strategic Direction 2: Distinctive Teaching, Scholarship, Research, and Professional Contributions

UWF Priority 2.1. Respond to the changing needs of the region, state, and nation by investing strategically to support innovative instruction and high-quality, relevant, and distinctive academic and research programs.
UWF Priority 2.2. Recruit, support, retain, and recognize dedicated, high-quality faculty who advance the mission, vision, and values of the University.

UWF Priority 2.3. Build a vibrant culture of scholarship and research that aligns with UWF’s strengths and capacities and supports UWF’s mission, vision, and values.

Strategic Direction 3: Valued Partnerships: Community Engagement and Service

UWF Priority 3.1. Develop, cultivate, assess, and sustain a network of mutually beneficial community partnerships.

UWF Priority 3.2. Advance the economy and quality of life in the region through partnerships with the citizens, businesses, organizations, and communities UWF serves.

UWF Priority 3.3. Expand community awareness, visibility, and support of UWF through its mutually beneficial partnerships.

Strategic Direction 4: Sustainable Institutional Excellence

UWF Priority 4.1. Support and sustain the high-quality services and infrastructure needed to achieve identified UWF priorities.

UWF Priority 4.2. Recruit, develop, retain, and recognize dedicated, high-quality staff members who advance the mission, vision, and values of the University.

UWF Priority 4.3. Maximize the acquisition and deployment of resources, and strategically align and integrate planning, budgeting, assessment, and continuous improvement efforts.

[1] High-impact learning experiences include teaching and learning practices that educational research suggests improve student engagement, learning, and retention (e.g., learning communities, undergraduate research, international studies and study abroad, service learning, community-based learning, internships, capstone projects).
Academic Calendar

The academic calendars list important dates and deadlines for each semester and are created and maintained by the Office of the Registrar.

Campuses

In this section:

• Pensacola Campus (http://uwf.edu)
• Emerald Coast Campuses (http://uwf.edu/emeraldcoast)
• Online Campus (http://onlinecampus.uwf.edu)
Governance, Administration and Faculty

In this section:
• Governance and Administration (p. 7)
• Faculty (p. 7)

Governance and Administration

Florida Board of Governors
• Richard A. Beard III, Tampa
• Matthew M. Carter II, Tallahassee
• Manoj Chopra, Oveido
• Dean Colson, Chair, Coral Gables
• Daniel Doyle, Jr., Tampa
• Patricia Frost, Miami Beach
• Morteza "Mori" Hosseini, Chair, Daytona Beach
• H. Wayne Huizenga, Jr., Delray Beach
• Thomas G. Kuntz, Vice Chair, Winter Park
• Ned C. Lautenbach, Naples
• Alan Levine, Naples
• Wendy Link, Palm Beach Gardens
• Edward Morton, Naples
• Pam Stewart, (Education Commissioner) Tallahassee
• Norman D. Tripp, Fort Lauderdale
• Elizabeth L. Webster, Weston
• Vacant, (Chairman, Florida Student Association)

UWF Board of Trustees
• Lewis Bear, Jr., Chair, Pensacola
• David E. Cleveland, Gulf Breeze
• Pamela Dana, Destin
• Ethan Friedland, SGA President, Seminole
• Robert 'Bob' Jones, Westville
• Suzanne Lewis, Pensacola
• LuTimothy May, Pensacola
• Susan O'Connor, Pensacola
• Mort O'Sullivan, Vice Chair, Pensacola
• Jay S. Patel, Pensacola
• Richard Hough, Faculty Senate President, Pensacola
• Bentina Terry, Pensacola
• Garrett Walton, Pensacola

Executive Officials
• Judith A. Bense, President
• Martha Saunders, Provost/Vice President for Academic Affairs
• Susan Stephenson, Vice President of Business, Finance, and Facilities
• Kevin Bailey, Vice President for Student Affairs

Faculty

Faculty, Administration and Staff
https://nautical.uwf.edu/people/main.cfm

Faculty Emeriti
http://uwf.edu/academic/awards/emeritus/emeritus.cfm
Graduate Catalog

This Catalog represents the current curricula, educational plans, and requirements of the University of West Florida at the time the text in the Catalog was prepared. The provisions of the Catalog do not constitute an offer for a contract that may be accepted by students through registration and enrollment in the University. In accordance with the University, UWF Board of Trustees, Florida Board of Governors, and Florida legislative mandates, the University must reserve the right to change any provision, offering, or requirement at any time within the student’s period of study at the University. Students should be aware that admission to the University or registration for a given semester does not necessarily guarantee the availability of a course at any specific time, but every effort will be made to meet each student’s curricular needs. Students are ultimately responsible for adhering to the requirements for courses and degrees offered by the University by obtaining current information about those courses and degree programs.

The University of West Florida is an Equal Opportunity/Affirmative Action Institution. The University is committed to the principles of equal opportunity. Programs, activities, services, and all terms and conditions of employment of the University are offered with equal access to all persons without regard to race, color, ethnicity, religion, gender, sexual orientation, age, national origin, or disability.

Persons with a disability requiring reasonable accommodation should contact the Student Disability Resource Center in Building 19, at least five working days in advance to make appropriate arrangements. Persons with hearing or speech impairments should use the Florida Dual Party Relay System at 1-800-955-8770 (voice) or 1-800-955-8771 (TTY).
Graduate Admissions

In this section:
  • General Information (p. 9)
  • Admission Policies (p. 11)
  • International Graduate Admission (p. 12)
  • General Readmission (p. 14)
  • Appeal of Admission Denial (p. 14)

General Information

The Graduate School administers the application, admission, and readmission process for all degree-seeking and non-degree seeking graduate students. It also assists prospective graduate students in obtaining information about UWF.

General Policies

The University of West Florida encourages applications for admission from qualified students regardless of gender, culture, religion, ethnic background, age, marital status, or disability. Students with documented visual impairments, hearing impairments, motor impairments, or specific learning disabilities may petition for substitution of admission requirements provided such substitution does not significantly alter the nature of the program for which admission is being sought. For more information about the University’s admission requirement substitution policy contact the Graduate School.

Admission of students to the University of West Florida is within the jurisdiction of the University, but subject to the minimum standards adopted by the UWF Board of Trustees and the Florida Board of Governors.

Conditions of Admission

The Graduate School will notify the applicants of the admission decision. Admission to the University is often contingent upon the subsequent receipt of satisfactory and official college or university transcripts and verification of baccalaureate degrees. Failure to submit such documents may result in the cancellation of admission. Refer to Provisional Admission (p. 12) for more information.

Ownership of Submitted Documents

All credentials and documents submitted become the property of the University of West Florida. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.

Fraudulent Records

If it is found that an applicant has made a false or fraudulent statement or a deliberate omission on the application for admission, the residency statement, or any other accompanying documents or statements, the applicant may be denied admission. If the student is already enrolled when the fraud is discovered, the case will be adjudicated using the procedures specified for violations of the UWF Student Conduct System as contained in the Student Handbook and Planner which is available online at http://uwf.edu/studenthandbook/.

Applicant Conduct

The University shall evaluate an applicant’s previous conduct to determine whether offering the applicant admission is in the best interest of the University. Applicants with a record of previous misconduct at an educational institution or criminal conduct will be evaluated during the admission process in accordance with UWF Regulation 3.003 (http://uwf.edu/trustees/procedures/documents/UWF%20REG%203.003%20Admission%20of%20Applicants%20with%20Records%20of%20Criminal%20Conduct%20or%20of%20Misconduct%20at%20Educational%20Institutions.pdf).

Request for Admission for a Later Semester

Applicants are admitted to the University only for the semester for which they apply. Students who do not enroll in the semester for which they have been admitted and want consideration for a different semester must reapply for admission and pay another application processing fee. Applicants will be considered for admission under the policies in effect at that time. Admission is not automatic. If an applicant has attended, or is currently attending, another collegiate institution since the submission of the previous application, the applicant must indicate the institution on the new application and provide an official transcript of all work attempted.

Admission Documents Required

Applicants for graduate admission must provide the Graduate School with the following documents:

Application for Admission

Applicants must apply for graduate level admission online. All graduate applications are available online at http://uwf.edu/graduate/graduate-admissions/apply-now. The application for admission and a non-refundable, non-deferrable $30 processing fee payable to the University of West Florida should be submitted six to nine months prior to the semester for which admission is requested. It is the policy of the University not to defer or waive the application for admission and the application processing fee. The application processing fee must be in U.S. currency and drawn from a U.S. bank. There is an option to pay via credit card when the web application is submitted.

College Transcripts

Applicants must submit one official transcript from each college and university attended to the Graduate School. Applicants who received their undergraduate degree from UWF do not need to provide UWF transcripts. Transcripts are considered official when they are sent from a college or university directly to the Graduate School and bear an official seal and signature. Transcripts bearing the statement "Issued to Student," faxed transcripts, or transcripts submitted by the applicant are not considered official. Original documents or signed, officially certified photocopies of original documents may be submitted by the applicant only when institutions outside the U.S. will not send academic records to other institutions. The verifying signature should preferably be that of an officer of the institution attended. All academic records that are not in English must be accompanied by certified English translations.

Test Scores

Official test results from a nationally standardized graduate admission test are required for all applicants. The University of West Florida accepts the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), and the Graduate Management Admissions Test (GMAT). Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program. For the majority of departments, it is recommended that the graduate admission test be taken no later than April for the fall semester, August for the spring semester, or January for the summer semester. Applicants should contact the specific department for departmental
deadlines for admission tests. Applicants to the Ed.D. program should
take the GRE or MAT one year prior to desired admission. The test
scores are considered official only when they are sent directly to
the Graduate School from the testing agency. Examinee copies
are not considered official. The GRE, GMAT, and MAT are offered
several times a year at numerous testing centers in the U.S. and
abroad. Advanced registration is required. Registration forms, as
well as detailed information on the availability and character of the
examinations, may be obtained from the UWF Testing Center.

Departmental Requirements

Some departments have additional admission requirements such as
auditions, portfolios, goal statements, letters of recommendation, de-
partmental applications, writing samples, personal interviews, and
diagnostic testing. Applicants should contact the department directly
regarding any departmental admission requirements.

Deadlines for Applications and Supporting Documents

The final deadlines for applications and supporting documents for
graduate applicants are:

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>October 1</td>
</tr>
<tr>
<td>Summer</td>
<td>March 1</td>
</tr>
</tbody>
</table>

Because some departments have earlier deadlines, applicants should
contact the specific academic departments for departmental deadlines.
It is in an applicant’s best interest to apply early. Files completed after
the published deadlines may not be processed in time for the applicant
to be considered for enrollment in the desired semester.

Accelerated Bachelor’s to Master’s
Programs

The Accelerated Bachelor’s to Master’s (ABM) programs allow high-
performing undergraduate students at the University an opportunity
to complete the requirements for both the bachelor’s and master’s
degrees at an accelerated pace. Undergraduate students in this
program may apply up to 12 graduate (5000-6000 level) credit hours
towards the completion of both the bachelor’s and master’s degree
requirements.

Criteria for Admission to the ABM Program

Admission to the ABM program, which allows undergraduate students
to begin taking approved graduate courses, is contingent on meeting
the following eligibility requirements at the time of entering the ABM
program:

- Students must have completed a minimum of seventy-five (75)
  credit hours in their undergraduate programs, including credits
  earned from advanced placement, prior to submitting the ABM
  Program Application.
- Transfer students must have completed a minimum of twenty-four
  (24) credit hours and at least two semesters at the University of
  West Florida.
- Students must have a minimum overall undergraduate grade point
  average (GPA) of 3.25 and a minimum GPA of 3.5 in their major at
  the University of West Florida.
- Admission to an ABM program does not guarantee admission to
  the Graduate School. Students must apply directly to the master’s
  program.

Application to the ABM Program

There are two separate application processes: (1) submission/approval
of ABM Program Application (allows undergraduate student to begin
taking pre-approved graduate-level courses) and (2) submission/
approval of graduate admission application (officially admits student
into the master’s program).

- A prospective student who meets the eligibility requirements
  must schedule a meeting with his/her undergraduate advisor and
  graduate advisor to develop a degree plan for his/her bachelor’s to
  master’s degree programs. The degree plans must clearly indicate
  the courses (a maximum of 12 graduate semester hours at either
  the 5000 or 6000 level) that will be applied to both the bachelor’s
  and master’s degrees. Undergraduate courses cannot be used to
  meet graduate degree requirements.
- The prospective student must be given a copy of these guidelines.
- The prospective student must submit an ABM Program Application.
The application must be approved by the department chair(s) and
a copy must be submitted to the Graduate School.

Express Admission to a Master’s Program

Express admission is a special admissions procedure to quickly admit
current UWF undergraduate students to our master’s programs.
Express admission allows for high-performing, currently enrolled
UWF undergraduate students to continue their graduate study at
UWF by going through a shorter application process eliminating the
formal graduate admission application submission, the application
processing fee submission, and some, if not all, departmental
admission requirements submission. Some graduate departments
waive the graduate admission test requirement. Students should check
with the graduate department to see if the graduate admission test
is required. Admission to the master’s program is valid only for the
semester indicated on the express admission application.

Criteria for Express Admission

- Applicant must be nominated by the chairperson of the proposed
  master’s program and be approved by the respective college dean.
- Applicant must be a candidate for graduation from UWF.
- Applicant must be an undergraduate student either within the
  same department as the proposed master’s program or in a
department that has established a cross-discipline express
admission agreement with the proposed master’s program.
- Applicant must maintain continuous enrollment at UWF which
  means applicant cannot wait a semester after graduation to enroll
  in the master’s program, except for the summer semester (e.g., an
applicant graduating in the spring semester may opt to start his/
her master's program in the summer or fall semester of the same year of graduation; a fall graduate must attend the following spring semester; and a summer graduate must attend the following fall semester).
• Applicant must meet published UWF graduate admission criteria.
• Admission of a UWF undergraduate is provisional upon the awarding of the baccalaureate degree prior to commencement of graduate study.
• The application for express admission must be completed and received in the Graduate School at least one month prior to the start of graduate classes for the requested semester. The application must be submitted via the College Dean to the Graduate School.

Non-Degree Seeking Application
Graduate non-degree seeking applicants must complete the online graduate non-degree seeking application. Non-degree seeking applicants do not need to pay an application processing fee, nor do they need to submit a graduate admission test, official college transcripts, or departmental admission requirements. The non-degree classification at the graduate level is used only by those students who have completed a baccalaureate degree. Non-degree seeking applicants whose native language is not English or applicants from a country in which the primary language is not English, must submit acceptable scores on an English Proficiency Test (p. 13) to be considered for non-degree seeking status. See the Non-Degree Seeking Status (p. 29) section of the catalog for more information.

Admission Policies
Admission to a UWF graduate program is a selective process that is governed by University requirements and department requirements that may exceed University-level requirements. Admission decisions are based on a holistic review of credentials in which multiple criteria are used to judge the appropriateness of an applicant to pursue graduate study. Each department selects factors it considers will help predict probable success in the graduate program and may include, but are not limited to, the quality of the applicant's undergraduate or graduate preparation as determined by the undergraduate or graduate institution attended; undergraduate or graduate grade point average and performance in specific courses; scores on standardized admission tests; the motivation and attitude of the applicant as determined by a personal statement, letters of reference, and/or a personal interview or other means; and writing ability. Preference for admission to any semester is given to students whose credentials indicate the greatest promise for academic success. Because of factors related to a department's enrollment capacity, the fact that a student meets minimum requirements does not guarantee admission to a specific program. Admission requirements shall not include preferences in the admissions process for applicants because of race, national origin, or gender.

Requirements for Regular Admission to a Master's Program
Each applicant shall be required to meet minimum University requirements:
• An earned bachelor's degree from an institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.0 on a 4-point scale, or a 3.0 (GPA) on a 4-point scale on the last 60 hours of coursework in the baccalaureate degree.
• Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
• A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), the Graduate Management Admission Test (GMAT), or an equivalent that is acceptable for the program to which the student is applying. Test scores must be no more than five years old.
• Approval by the department offering the degree to which the applicant is applying.

Departments may establish standards that exceed these University requirements or require additional application materials. Departments may accept an earned graduate degree from a U.S. institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or a comparable degree from an international institution in lieu of the bachelor's degree and required standardized admission test.

Requirements for Regular Admission to an Educational Specialist Program
Each applicant shall be required to meet minimum University requirements:
• An earned master's degree from an institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.25 on a 4-point scale.
• Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
• A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or an equivalent that is acceptable for the program to which the student is applying. Test scores must be no more than five years old.
• Other requirements as specified by each specialization for the degree.
• Approval by the department offering the specialization to which the applicant is applying.

Requirements for Regular Admission to a Doctoral Program
Each applicant shall be required to meet minimum University requirements:
• An earned master's degree from an institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.5 on a 4-point scale.
• Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible
to register in the college or university last attended will not be admitted for graduate study.

• A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or an equivalent that is acceptable for the specialization to which the student is applying. Test scores must be no more than five years old.

• Other requirements as specified by each specialization for the degree.

• Approval by the department offering the specialization to which the applicant is applying.

Provisional Admission

With approval from the department, students who do not have all application materials available at the time of admission may be granted provisional admission by the Graduate School. Provisional admission is appropriate for circumstances such as when the baccalaureate degree has been awarded but the undergraduate institution has not yet posted the degree, when graduate admissions has not received the applicant's official standardized test score, or when information required by the department is incomplete. Students who are granted provisional admission must submit all application materials during the first semester of graduate study or risk removal by the Graduate School of their status to pursue graduate study.

Conditional Admission

Students who do not meet the minimum requirements for regular admission may be admitted by a department on a conditional basis. In order to be considered for conditional admission, students must submit all required admission materials. Also, students who have graduated from a recognized, although non-accredited, institution may be admitted on a conditional basis. Students admitted on a conditional basis are permitted to register for up to 12 semester hours, identified by the department as appropriate to the degree, and must earn at least a grade of "B" on each of those courses or risk removal of their status to pursue graduate study. Admission on a conditional basis should not be routine.

International Graduate Admission

Applicants to the University are considered international if they are not U.S. Citizens, dual citizens, or permanent residents. In addition to the policies and procedures stated for the different categories of admission, the following information pertains to international applicants.

International Student Office (ISO)

The International Student Office provides immigration assistance to all international students, scholars, and employees at the University of West Florida and is available to assist students with problems ranging from immigration to cultural and personal matters. Students should feel free to ask questions and seek assistance from this office at any time.

Among the services offered are:

• Advising on immigration rules, regulations, responsibilities, and deadlines processing immigration requests and forms such as travel documents, employment authorizations, dependent documents, and social security card applications/approvers

• Optional Practical Training (OPT) and Curricular Practical Training (CPT) Workshops

• Communication with the international student community of any changes in immigration rules and regulations

• Connecting students with appropriate university offices or federal and state agencies

• Serving as a liaison with other university units on behalf of international students

The Office of International Education and Programs is located in Building 71 and may be reached at 850-474-2479. Please see additional information for international students and available services at uwf.edu/internationaloffice.

Academic Records

International applicants must submit original documents or signed, officially certified photocopies of original documents, as well as certified translations of all documents that are not in English. International applicants must also have their foreign credentials evaluated by one of the four evaluation services listed below. The evaluation should contain a course-by-course description and a grade point average from each institution attended. Applicants have the responsibility to contact the evaluation agency directly and have the evaluation agency send the official evaluation report to UWF. The official evaluation report must be received by the application deadline for the semester the applicant plans to attend. The acceptable evaluation services are the following:

Educational Credential Evaluators (ECE)
P.O. Box 514070
Milwaukee, WI 53203-3470
Ph: (414) 289-3400
Fax: (414) 289-3411
www.ece.org (http://www.ece.org)
eval@ece.org

International Education Evaluators (IEE)
P.O. Box 545663
Surfside, FL 33154
Ph: (305) 503-9063
Fax: (305) 993-5550
www.iee-usa.com (http://www.iee-usa.com)
info@iee-usa.com

Josef Silny & Associates, Inc.
International Education Consultants
7101 SW 102 Avenue
Miami, FL 33173
Ph: (305) 273-1616
Fax: (305) 273-1338
Translation Fax: (305) 273-1984
www.jsilny.com (http://www.jsilny.com)
info@jsilny.com

World Education Services, Inc.
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
Ph: (212) 966-6311
Fax: (212) 739-6120
www.wes.org (http://www.wes.org)
English Proficiency Test
If the international applicant's native language is not English or the applicant is from a country in which the primary language is not English, he or she must take one of the following tests before consideration of admission. English proficiency test scores are considered official only when they are sent directly to the Graduate School from the testing agency. Not all exams are available outside the U.S. and most are offered on a fixed schedule. Contact the testing agencies directly for scheduling information.

- Test of English as a Foreign Language (TOEFL)
- International English Language Test System (IELTS)
- Michigan English Language Assessment Battery (MELAB)

Minimum scores required by the University are listed below. However, individual departments may require higher scores.

<table>
<thead>
<tr>
<th>Test</th>
<th>Minimum Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paper-based TOEFL (pBT)</td>
<td>550</td>
</tr>
<tr>
<td>Internet-based TOEFL (IBT)</td>
<td>79/80</td>
</tr>
<tr>
<td>IELTS</td>
<td>6.5</td>
</tr>
<tr>
<td>MELAB</td>
<td>78</td>
</tr>
</tbody>
</table>

International students expecting to receive appointments as teaching assistants also are required by Florida law to pass a test of spoken English and must obtain and report a minimum TOEFL iBT Listening sub score of 23 to the Graduate School.

International non-degree seeking applicants, including applicants attending UWF under an international exchange agreement, must meet the English proficiency requirement.

Exemptions from proof of English proficiency

- UWF Intensive English Program (IEP) students who successfully complete the advanced level with an average of B+ (88) and score 78 or higher on the IEP exit test (MELICET) are eligible for admission to the University of West Florida if they meet all other requirements of the University.
- International students with a bachelor's degree from a U.S. institution or who have successfully completed a full year of full-time academic course work at a regionally accredited institution in the U.S. preceding the semester for which admission is sought. Intensive English course work does not qualify.

Certification of Finances
Certification of finances must be completed and returned to the International Student Office before the student visa, "Certificate of Eligibility" (Form I-20), is issued. The University is required by U.S. Citizenship and Immigration authorities to check the financial resources of each student prior to issuing Form I-20. Therefore, it is important for the applicant to know the costs of attending the University and have the necessary funds for the entire period of enrollment.

The "Confidential Financial Statement (http://uwf.edu/internationaloffice/pdf/Confidential%20Financial%20Statement.pdf)" form must be completed, signed by the student, and verified by the student's or sponsor's bank or financial institution with a statement of deposit. Before completing the "Confidential Financial Statement," the applicant should review the estimate of institutional costs and living expenses under Tuition and Fees (http://catalog.uwf.edu/graduate/tuitionandfees). The total amount of funds available to the student must be listed for each year of planned attendance and must equal or exceed the total estimate of institutional costs and living expenses. This form must be accurate and documented to avoid unnecessary delay in processing. The "Confidential Financial Statement" and supporting documents from the student's or sponsor's bank or financial institution should be submitted to the International Student Office by email at intered@uwf.edu.

Health Form/Health Insurance
Applicants must submit a "Mandatory Immunization Health History Form" completed by the applicant. Refer to the Immunization Requirements (p. 15) for more information.

International students are required to show certified proof of adequate medical insurance coverage for illness or accidental injury for an entire academic year before they will be permitted to register or to continue enrollment. An adequate medical insurance policy (http://uwf.edu/internationaloffice/health.cfm) must meet a number of requirements as listed on the "Health Insurance Compliance Form (http://uwf.edu/internationaloffice/pdf/HIComplianceForm.pdf)", including that the insurance proceeds are payable in U.S. currency. Insurance may be obtained at the University before registration.

Deadlines for Applications and Supporting Documents

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>October 1</td>
</tr>
<tr>
<td>Summer</td>
<td>March 1</td>
</tr>
</tbody>
</table>

Because some departments have earlier deadlines, applicants should contact specific academic departments for departmental deadlines. It is in the applicant's best interest to submit the application and documents early. Files completed after the published deadlines may not be processed in time for the applicant to be considered for enrollment in the desired semester.

Notice of Admission
If a student's application for admission to UWF is approved, an official letter of admission will be sent by the Graduate School. Admission is for a specific semester only. If the student is unable to enroll for the semester indicated on the letter of admission, the Graduate School should be informed immediately. Under no circumstances should an applicant make departure plans for Pensacola until official approval has been given by the Graduate School and the student has received the Form I-20 from the International Student Office (see section on passports and visas). Students who come to the campus without first receiving an official notice of acceptance do so at their own risk. The student’s presence on the campus will not influence the decision on an application for admission.

International Exchange
International students interested in participating in the UWF exchange program must be nominated by their home institution. Once confirmation of a student's eligibility has been received by the home institution, the acceptance process can begin through the International Student Office. For a list of participating exchange partner institutions and application procedures, please see the International
Passports and Visas

Students meeting all admission requirements of the University will be mailed a "Certificate of Eligibility" by the International Student Office. Students possessing a valid Form I-20 will be considered for a F-1 visa by presenting it and the following documents to the nearest U.S. Embassy or Consulate:

- A valid passport,
- Evidence of adequate financial support,
- Evidence of proficiency in the English language, and
- Any other additional documentation required by the U.S. Embassy or Consulate.

The student visa is stamped on a page in the passport.

Transfer of Funds

Prospective students should familiarize themselves with the current regulations of their own governments, as many restrict the purchase of U.S. dollars. Students should arrive with ample funds in U.S. dollars or in a credit card which is authorized to be used in the U.S. International wire transfer service (http://uwf.edu/internationaloffice/pdf/International%20Wire%20Transfer%20Information.pdf) to UWF is also available.

Employment


General Readmission

Readmission to Master's and Specialist Programs

Graduate students not in attendance during three or more consecutive academic semesters (including summer semester), but less than five years, must complete the "Application for Readmission" and provide any required documentation. The application must be filed according to readmission deadlines stated in the Academic Calendar (p. 5) for the semester to which the student is reapplying. The "Application for Readmission" does NOT include an application processing fee.

Readmitted students will have their official catalog year automatically updated to the catalog year in effect at the time of re-enrollment. Readmitted students also have the option of changing their catalog year to the catalog year in effect at the time of graduation.

Degree-seeking students file the readmission application in the Graduate School. Official transcripts from each college or university attended since previous enrollment at UWF must be submitted to the Graduate School prior to readmission. If a student is currently enrolled at another institution, the final transcript must be submitted when the term has ended. Readmission is not automatic and is at the discretion of the Graduate School and graduate department.

Graduate students who last attended their graduate program five years ago or more must reapply to their program using the graduate application for admission.

Readmission to Doctoral Program

Doctoral candidates who do not attend three consecutive semesters must formally reapply to the University and to the program. Readmission to the doctoral program is at the discretion of the Ed.D. Admissions Committee.

Appeal of Admission Denial

Denial of Admission to Graduate Programs

Applicants who have been denied admission or readmission to a graduate program at the University may appeal the denial by filing a written letter of appeal with the Director of the Graduate School, by sending it to gradadmissions@uwf.edu or The University of West Florida, Graduate School, Building 11 Room 207, 11000 University Parkway, Pensacola, Florida 32514. The letter of appeal must address the reasons why the applicant believes the decision is in error. It must be received by the Graduate School within 30 days of the date of the denial letter, or by the first day of classes of the semester for which admission was requested, whichever is shorter.

Once received, the appeal letter will be forwarded to the appropriate College Dean. The College Dean will convene a faculty committee to review the denial within 20 days of the date of the appeal letter. The committee will consider the materials submitted by the applicant including the letter of appeal. The committee’s decision will be forwarded to the applicant by the Graduate School within five business days of the date of the receipt of the committee’s decision. This appeal decision is final.

Applicants who are denied admission or readmission to the University for judicial and/or conduct reasons should refer to UWF/REG 3.003 (http://uwf.edu/trustees/procedures/documents/UWF%20REG%203.003%20Admission%20of%20Applicants%20with%20Records%20of%20Criminal%20Conduct%20or%20Misconduct%20at%20Educational%20Institutions.pdf).
After Admission

Apply for Financial Aid
Refer to information on Financial Aid (p. 17).

Apply for Housing
Refer to information on Housing (http://uwf.edu/housing).

Apply for Military and Veterans Benefits
Refer to information on Military and Veterans Benefits (p. 19).

Medical History
All students are required to submit a completed and signed Medical History Form to UWF Student Health Services before registration. If the student is underage, the form must be signed by a parent or legal guardian. This form also serves as consent for treatment.

Immunization Requirements
All students, both graduate and undergraduate, are required to meet the immunization requirements listed below prior to registration.

Measles/Mumps and Rubella
1. Requirements: All students born after December 31, 1956 must present documented proof of immunity to Measles (Rubella) and German Measles (Rubella), in one of the three ways described below:
   a. Proof of 2 doses of MMR (Measles/Mumps/Rubella) received at least 28 days apart or 2 doses of Measles and 1 dose of Rubella.
   b. Vaccinations must have been received after your first birthday.
   c. Vaccinations must have been received in 1969 or later.

2. Proof of immunity by way of a positive laboratory test known as a titer (IgG Rubeola titer or IgG Rubella titer). A copy of the lab report which includes the date of the test must be submitted.

3. A written statement from a healthcare provider documenting a diagnosis of Measles (Rubella). The statement must be on official medical office stationery, include the date of diagnosis, and be signed by a physician. This is only acceptable for a diagnosis of Measles.

4. Exceptions: Student may apply for an exception to the immunization requirement for Measles/Mumps and Rubella if they meet one of the following criteria and submit the appropriate documentation.
   a. Medical Basis - The student must provide a letter from a healthcare provider, signed on official medical stationery, stating the medical reason(s) why the student is not able to receive the Measles/Mumps and/or Rubella vaccine(s), and indicating if this is a temporary or permanent condition.
   b. Religious Basis - The student (or the student’s parent/guardian if under 18 years old) must provide a letter stating the student’s religious beliefs do not permit him/her to receive vaccinations.
   c. Active Duty Military - Active duty military personnel may complete a Measles/Mumps and Rubella waiver form if documentation of immunizations is unavailable at the time of registration. A copy of the individual’s military ID is required with the waiver.

Meningitis and Hepatitis B
1. All UWF undergraduate and graduate students, including on-line students, must provide documentation of vaccinations against Meningococcal Meningitis and Hepatitis B or complete the Meningitis/Hepatitis Waiver form indicating their informed decision not to be vaccinated for the appropriate declined vaccination. If the student is under the age of 18, the waiver form must be signed by a parent or legal guardian.

2. Students continuously enrolled since June 30, 2008 or before who have not lived in University housing since June 30, 2008 are exempt from this requirement.

Submission of Documentation
1. Immunization forms including waiver forms and other documentation may be presented in person or via mail, fax, or email to the University of West Florida, Student Health Services, 11000 University Parkway, Pensacola, FL 32514. The email address is immunizations@uwf.edu and the fax number is (850) 857-6100. If the student is mailing documentation, the student must include his/her name, birth date, and UWF ID number. Photocopies are acceptable. Originals will not be returned. If students have questions or need any additional information about these illnesses or the vaccinations, they should visit the Student Health Services’ website at www.uwf.edu/healthservices.

Orientation
The Graduate School, in collaboration with various other units of the University, hosts a New Graduate Student Orientation. The orientation provides newly admitted graduate students with an overview of University services and extracurricular opportunities and an understanding of what to expect academically and financially as UWF graduate students. Graduate students attending the orientation have the opportunity to hear from representatives of academic departments, the Graduate Student Association, and other campus organizations. Additionally, students will receive information on how to purchase textbooks, parking permits, and their Nautilus Card. Supplementary orientation programs may be offered by individual academic departments.

Academic Advising
Each degree-seeking graduate student is assigned to a faculty member to assist in planning academic programs; provide guidance in personal, academic, and professional development; and foster interaction among students and faculty.

The Teacher Education Advising Center is the central campus office for all student information relating to teacher education. This office admits students into teacher education programs and into student teaching, distributes certification applications, and makes recommendations for certification.

MyUWF
New students may check their admission status through MyUWF at my.uwf.edu. Once admitted, students may also check their financial aid status and register for classes through MyUWF.
After Admission

Register for Classes
Refer to information on Registration Policies and Procedures (p. 36). A Navigation Guide (http://uwf.edu/registrar/Navigationguide.pdf) to registration is also housed on the Office of the Registrar website.

Obtain Nautilus Card
All Pensacola campus students are required to purchase a Nautilus Card. Refer to information on Tuition and Fees (p. 22).

Obtain Parking Permit
Parking a vehicle on campus requires a parking permit which may be purchased online through MyUWF at my.uwf.edu and search for 'parking'.

Confirm Residency for Tuition Purposes
Refer to information on Residency (p. 26).

Pay Tuition and Fees
Refer to information on Tuition and Fees (p. 22).

Review Student Rights and Responsibilities
Review the Student Handbook and Planner for more information on topics below. The Student Handbook and Planner is available in print from the Dean of Students Office and is available online at http://uwf.edu/studenthandbook/.

Student Code of Conduct
The University seeks to provide an environment which encourages the thoughtful development of intellectual, social, and moral standards. Student conduct is expected to be lawful, and students are expected to abide by all University regulations and the Student Code of Conduct, as published in the Student Handbook and Planner.

Grievance
All students may bring grievances to the attention of University personnel, and they will receive prompt and fair disposition of grievances as outlined in the Student Handbook and Planner.

Prohibition of Harassment
Harassment is prohibited, whether on the basis of race, color, sexual orientation, religion, gender, national origin, age, physical disability, marital status, or veteran status. Harassment is defined as conduct which unreasonably interferes with a student's status or performance by creating an intimidating, hostile, or offensive working or educational environment. Sexual harassment is defined as unwelcome or unsolicited sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Guidance, support, and assistance concerning discrimination are available from the Office of Human Resources. Any student believing they have been harassed may bring complaints to the Office of Human Resources.

Use of Instructional Space and Resources
University facilities and equipment are intended primarily for the use of the faculty and students currently enrolled in courses of instruction. Students who have completed registration, including the payment of fees for the current semester, and whose names appear on the final class rolls, are authorized to attend classes and to use University instructional areas, facilities, equipment, and designated services.

Students, including those continuing work on theses and dissertations, who are not enrolled for the current semester, are not authorized to use instructional space and resources. Students may not attend classes, including use of instructional space, facilities, designated library services, and equipment, for which they have not paid fees or from which they have withdrawn.
Financial Aid

The Financial Aid Office (FAO) coordinates the awarding of scholarships, grants, work-study, and loans through Federal, State, and University funds. Financial aid enables students to reduce or eliminate financial barriers to admission and retention at the University. All awards are contingent upon availability of funds. Non-degree students are not eligible to receive financial aid.

Information is updated frequently. Visit the Financial Aid Office website for the most current and detailed information.

Applying for Financial Aid

A student applying for financial aid must follow the procedure outlined below:

- Complete the "Free Application for Federal Student Aid (FAFSA)," available online at fafsa.gov (http://www.fafsa.gov). The results, called a Student Aid Report (SAR), will be electronically transmitted to the University of West Florida when the student enters UWF’s school code "003955" on the FAFSA.

- Submit an application for admission to UWF. No financial aid will be awarded until the applicant has been admitted to UWF.

Most financial aid programs require that an applicant register at least half-time, maintain satisfactory academic progress, and show evidence of financial need. Receipt of a financial aid award does not guarantee financial aid in subsequent years. A student must reapply for financial aid each academic year.

Students must have confirmed attendance prior to aid disbursing.

2014-2015 Estimated Full-Time Graduate Student Budget

These two-semester graduate student budgets are used to determine initial financial aid awards, but can be adjusted later in the year if tuition figures change.

<table>
<thead>
<tr>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student</strong></td>
<td><strong>Tuition</strong></td>
</tr>
<tr>
<td>Commute</td>
<td>$6,714</td>
</tr>
<tr>
<td>On-Campus</td>
<td>$6,714</td>
</tr>
<tr>
<td>Off-Campus</td>
<td>$6,714</td>
</tr>
</tbody>
</table>

Satisfactory Progress Requirements

Financial aid recipients must comply with UWF’s satisfactory academic progress (SAP) requirement for GPA, Completion Ratio (CR), and Maximum Time Limit (MTL). The complete policy is available on the Financial Aid Office website (http://uwf.edu/offices/financial-aid). Financial aid eligibility is checked at the end of every semester after grades are posted. Minimum requirements are:

- **Minimum Cumulative UWF GPA**
  - Master's, Specialist, and Doctorate: 3.0 at all times

- **Minimum Cumulative Completion Ratio**
  - Satisfactory completion means that a student must complete at least 75% of the courses in which they enroll. Transfer hours from previous institutions and repeat coursework are included in the completion ratio.

- **Maximum Time Limit**
  - The maximum time limit for a graduate student is 150% of the program length. All coursework taken is included in these totals (transfer hours, repeat coursework, withdrawals, F’s, etc.). Maximum Time Limit for a second master’s degree is 150% of program length. Maximum Time Limit cannot be appealed.

Satisfactory Progress Appeals

Students declared ineligible for financial aid on the basis of unsatisfactory academic progress may appeal the decision in writing by completing the Satisfactory Academic Progress Appeal Form. Appeals are based on extenuating circumstances only; documentation is required.

Reinstatement Policy

A student that chooses not to appeal, or whose appeal is denied, will regain eligibility once the minimum standards for GPA and/or completion ratio are attained. The student is responsible for contacting the Financial Aid Office when standards are reached.

Grants

Limited institutional funds are available to graduate students working on a first master’s degree who demonstrate financial need. Repayment is not required.

Loans

Unsubsidized Federal Direct Loan

An unsubsidized loan is the primary type of financial aid available to a graduate student. Interest does accrue from the time the loan is disbursed. The student has the option to pay the interest every 90 days or let it capitalize. Students are encouraged to pay the interest, if possible, to avoid additional interest charges. There is a 6-month grace period before repayment begins, and the student can repay the loan at any time without penalty. Additional information regarding interest rate, annual, and aggregate limits can be found on the Financial Aid Office website (http://uwf.edu/offices/financial-aid/types-of-aid/loans).

Federal Grad PLUS Loan

The Grad PLUS loan allows a graduate student to borrow up to the total cost of education minus any other financial aid. The interest rate is variable, and repayment is generally deferred while in school. Half-time (6 graduate semester hours) enrollment, satisfactory academic progress, and a credit check are required. Additional information and application procedures are available in the Loans section of the

Scholarships

John C. Pace, Jr. Graduate Scholarship

Merit-based funds are awarded to a limited number of graduate students by the academic departments. The John C. Pace, Jr. Graduate Scholarship is awarded to new and currently enrolled graduate students with a minimum 3.00 GPA. Enrollment in six or more hours of graduate credit is required. Each college may establish additional criteria. The amount of the award varies for each graduate student.

Merit Graduate Scholarship

Merit-based funds are awarded to a limited number of graduate students by the academic departments. The Merit Graduate Scholarship is awarded to new and currently enrolled graduate students with a minimum 3.00 GPA. Enrollment in six or more hours of graduate credit is required. Each college may establish additional criteria. The amount of the award varies for each graduate student.

Student Employment

On-Campus Student Employment (OPS)

There are many opportunities for students to be employed on campus. Student job opportunities are posted on the Human Resources website under Student Employment. Additionally, departments that hire large numbers of students post employment opportunities on their individual websites or in their office - examples include the Housing Office, Food Services, and Recreation. Visit the Student Employment site at jobs.uwf.edu and select "Student". For more information contact Human Resources at (850) 474-2694.

Graduate Assistantships

Graduate Assistantships are available in many departments across campus. Please contact your academic department regarding availability. Graduate Assistants are paid bi-weekly and receive partial tuition waivers.

Off-Campus Part-Time Employment

Off-campus employers advertise with the Office of Career Services to assist in filling part-time positions. Information is available online at uwf.edu/career.
Military and Veterans' Information

Military Personnel

The University of West Florida recognizes that many active duty military personnel face formidable barriers in the pursuit of a college degree. As part of the University's continuing commitment to educational opportunities for military personnel, in the fall of 2011, UWF opened a center dedicated to supporting all military and veteran-affiliated students, including spouses and dependents. This center is the Military and Veteran's Resource Center (MVRC) (http://uwf.edu/mvrc) located in building 38 room 147. The primary goal of the MVRC is helping military and veteran students successfully make the transition from the military environment to campus life. Transition coaches are available to assist students with GI Bill benefits, the University process, support service, counseling & tutoring, etc. A computer center is housed within the MVRC for use by veterans on coursework. Contact the MVRC at mvrc@uwf.edu or 850-474-2550. Many departments have agreed to offer degrees through a system tailored to the specific needs of active duty military personnel. Previous college credit, work experience, service schools, and other forms of nonacademic experiences will be considered for college credits. For further information, contact the Graduate School (http://uwf.edu/graduate).

Servicemembers Opportunity Colleges

The University of West Florida has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 1800 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, UWF recognizes the unique nature of the military lifestyle and is committed to easing the transfer of relevant course credits and crediting learning from appropriate military training and experiences. SOC has been developed jointly by educational representatives of each of the armed services, the Office of the Secretary of Defense, and a consortium of 12 leading national higher education associations. It is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACC).

Veterans' Benefits

The University of West Florida is approved by the Florida Department of Veterans Affairs (DVA) for the education of veterans, active duty personnel, reservists, and eligible dependents under current law. The Military and Veteran's Resource Center (MVRC) is the point of contact for students receiving benefits from the DVA. The office has a professional staff augmented by veteran transition coaches to assist in providing information about entitlements, filing claims to the DVA, and certifying enrollment. The MVRC monitors the academic progress of students receiving DVA educational benefits. Students who receive DVA benefits are subject to different academic regulations and should be aware that auditing courses, enrollment status, withdrawals, repeating courses, changing degree programs, adding majors, and other actions may affect eligibility for educational benefits. For questions contact the MVRC, mvrc@uwf.edu or 850-474-2550.

Yellow Ribbon

The University of West Florida is an approved participating Yellow Ribbon Institution for the 2014-2015 catalog year. The Yellow Ribbon program is designed to help non-Florida residents cover the cost of their education that exceeds the in-state tuition and fees. It is only available to those individuals eligible for the maximum benefit rate (100%) of the Post 9/11 GI Bill (Chapter 33). It will be granted to the first 250 qualified students on a first-come, first-served basis.

Educational Objective

To receive educational benefits from the DVA, the student must be pursuing an approved degree, or be enrolled in a VA-certified certificate program at the University. VA will only pay benefits for classes required for graduation or for completion of a VA-certified certificate program. Required courses must be reflected in a student’s degree audit before they can be certified for VA benefits. Substitutions to the degree audit must be made prior to VA certification. To avoid delays in a certification it is a student’s responsibility to ensure that required classes are being taken. Failure to do so may prohibit certification of classes for future semesters. Students who do not have an on-line degree audit must submit a signed program description sheet (PDS).

Tuition Deferment

Deferred payment status for tuition and registration fees may be granted upon application by the student on the following grounds. The University reserves the right to deny deferral status to students who have established an unfavorable credit rating. Students receiving financial aid are ineligible for deferments.

Deferral eligibility is granted to students receiving veterans’ educational assistance benefits from federal or state assistance programs if aid is delayed in transmission to the student through circumstances beyond the student’s control.

Veterans and other eligible degree-seeking students receiving benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic semester. A 90-day deferment will be issued for the spring and fall semesters and a 30-day deferment will be issued for summer and mini-terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date and not after the last day of the semester.

<table>
<thead>
<tr>
<th>Semester (Year)</th>
<th>1 Term</th>
<th>2 Term</th>
<th>3 Term</th>
<th>4 Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Nov 21</td>
<td>Sep 23</td>
<td>Nov 13</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>Apr 3</td>
<td>Feb 4</td>
<td>Apr 2</td>
<td></td>
</tr>
<tr>
<td>Summer</td>
<td>Jun 10</td>
<td>Jun 10</td>
<td>Jul 24</td>
<td>Jul 10</td>
</tr>
</tbody>
</table>

Tuition and Fees must be paid by the last day of a semester. VA deferments DO NOT extend beyond the posted semester dates. A veteran may request a deferment (promissory note) via their VA Enrollment Certification Form found in their MyUWF account (https://my.uwf.edu) or at the Military and Veteran’s Resource Center (MVRC) for the amount of tuition and fees. The MVRC will submit the approved promissory note to the University Cashier prior to the fee payment deadline. Failure to make payment by the deferment due date will result in a $100 late payment fee. Students who do not make payment or request a deferment may be deleted for non-payment. Students who are deleted for non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee.
Any change in a VA deferment to a National Guard or other military billing status after the fee payment deadline will result in the assessment of the late payment fee of $100.00.

A University withdrawal does not cancel the veteran’s responsibility to pay the deferment. A veteran must submit a fee appeal explaining the circumstances behind the request. This is not an automatic approval.

**Academic Progress**

University academic standing is discussed in the Academic Policies section (p. 29) of the Catalog. However, students receiving veterans’ benefits must meet the requirements listed below consistent with UWF’s academic policies.

Students will be notified formally by US mail and/or via email (UWF email account) when placed on VA Academic Probation, Suspension, and/or Termination.

**VA Academic Probation**

Graduate students will be placed on probation by the VA Certifying Official upon completion of the semester during which the cumulative GPA falls below 3.0.

Placing students on VA Academic Probation provides students notification of their need for immediate attention to academic improvement or risk losing eligibility for VA educational benefits.

**VA Academic Suspension**

A student with two consecutive semesters of cumulative GPAs below a 3.0, will be placed on VA academic suspension. VA Academic suspension will remove the students VA educational benefits until the following action is completed:

- The student must enroll in the MVRC mentoring program and follow the prescribed plan provided by the MVRC mentor.

- The student must obtain written counseling from his or her academic counselor and provide that written documentation to the MVRC.

**VA Termination**

A student’s VA benefits will be terminated if the student’s cumulative GPA remains less than a 3.0 for three consecutive semesters. The MVRC will notify the DVA of unsatisfactory progress and educational benefits will be terminated.

**Advance Payment**

Advance payment of DVA benefits may be available to new students and those students who were not enrolled in the previous semester. Application should be made through the Military and Veteran’s Resource Center no later than 45 days before the first day of classes of the anticipated enrollment semester.

**Reporting Requirements**

Re-certification of benefits is not automatic and must be requested each semester. It is the responsibility of each student to keep the UWF Military and Veteran’s Resource Center informed of the following. To prevent overpayment and subsequent indebtedness to the Federal Government, it is important to notify the Military and Veteran’s Resource Center immediately of changes that may affect the student’s eligibility for benefits.

**Class Registration**

After registering for classes, eligible students should request VA certification via the VA Enrollment Certification Form found in their MyUWF account (https://my.uwf.edu). Students who do not have a MyUWF account should print the VA Enrollment Certification Form (http://uwf.edu/militaryveterans/documents/VA_interview_enrollment_certification_form_3_12.pdf) found on the UWF MVRC website (http://uwf.edu/militaryveterans/vet_svcs.cfm).

For questions, students may visit or email the UWF Military and Veteran’s Resource Center (mvrc@uwf.edu) for information and help. The earlier a student registers and provides the registration information to the MVRC, the earlier certification paperwork can be forwarded to the DVA.

**Changes to Schedule**

Any additions, drops, withdrawals, or other interruptions must be immediately reported to the Military and Veteran’s Resource Center by the student.

**Class Attendance**

Routine class attendance is required for those receiving DVA benefits. It is the student’s responsibility to inform the instructor(s) of absence from class(es) prior to, or as soon as possible after, the absence.

Students must check with their respective instructor(s) regarding the attendance policy for each class. Students who are unable to attend class(es) for an extended period of time should notify the instructor(s) and the UWF MVRC. If a student receiving DVA benefits is found in violation of the policy, the DVA will be notified and benefits may be reduced accordingly.

**Change of Address**

If a student’s address changes, both the DVA and UWF must be notified.

**Courses Not Eligible for Benefits**

Courses not meeting University requirements for graduation cannot be certified to the DVA for benefits payment. Although not all inclusive, the following list reflects types of courses that will not be certified to the DVA:

- Courses not on the student’s degree audit or Program Description Sheet (PDS) unless an addendum is provided before the last day of the drop/add period;
- Repeated courses that have been previously completed with a grade of “D-” or higher unless the student’s program requires a higher grade; this includes courses transferred from other colleges;
- Courses taken to fulfill requirements at another institution unless a transient authorization is received;
- Courses taken on an audit or noncredit basis or courses in which the permanent grade is “non-punitive,” (e.g., “W” or “V”); 
- Courses for which an “I” or “I*” was assigned, but not changed to a letter grade (A through F) within one year of the completion of the semester; in this case, the DVA will be notified retroactively;
- Remedial and deficiency courses offered by independent study;
- Distance Learning classes designed for career enhancement or continuing education

**Certificate Programs**

Not all certificate programs are certified for VA benefits. Check with the Military and Veteran’s Resource Center (http://uwf.edu/mvrc) for further information.
Part of Term Courses

Part of Term courses are those beginning and/or ending on dates other than the regular semester dates. These are referred to as Part of Term 5, Part of Term 6, Part of Term 7, Part of Term 8 and Part of Term 9. The Part of Term designation is determined by which month in the semester the course begins; i.e. a course starting in the first month of the semester but beginning/ending on a non-standard date would be identified as Part of Term 5. Students should be aware that the Department of Veteran Affairs (DVA) review is made on a term-by-term basis and not by semester. Taking Part of Term courses may affect the student’s training time or rate of pursuit for pay purposes; since this varies by benefit chapter, students should contact the MVRC to determine their training time and qualifications for full benefits.

<table>
<thead>
<tr>
<th>Semester (Year)</th>
<th>1 Term</th>
<th>2 Term</th>
<th>3 Term</th>
<th>4 Term</th>
</tr>
</thead>
<tbody>
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<td>30 days</td>
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<td>07/24/2015</td>
<td>07/10/2015</td>
</tr>
</tbody>
</table>
Tuition and Fees

The tuition for the University of West Florida includes base tuition and mandatory fees. The schedule of tuition, fees and other special fees applies to all regularly enrolled students at the University of West Florida. Required fees are established by the Florida Board of Governors, Florida Legislature, and UWF’s Board of Trustees and are generally updated each fall term. The University will make every possible effort to advertise any changes in fees when and if they occur.

You are required to complete a Financial Responsibility Statement prior to registering each term. This statement outlines the terms and conditions of the financial responsibilities and obligations associated with attending the University of West Florida.

2014-2015 Tuition and Fees


Payment of Fees

Fees may be paid by any of the following methods:

• Tuition and fees, housing, and mandatory meal plans may be paid online using your checking or savings account through MyUWF. An echeck payment results in an electronic debit of your bank account. There is no additional fee assessed for an echeck payment. If your payment is returned as unpaid by your bank for any reason, your student account will be assessed a return item fee.

• Credit and debit cards may also be used to make payments for tuition and fees, housing, and mandatory meal plans through MyUWF. The University partners with CashNet to process credit and debit card payments and a convenience fee of 2.75% will be charged. This fee will be added to your total payment and is non-refundable. The convenience fee of 2.75% will be displayed prior to completion of the transaction. Your completion of the transaction acknowledges acceptance of these payment terms.

• Students that elect to pay with their Higher One OneAccount debit card will not be assessed a convenience fee.

• Students may elect to pay with a Foreign Currency online through MyUWF. WesternUnion, a respected leader in the realm of currency exchange, provides a mechanism to facilitate foreign currency payments.

• A parent portal will be available for online payments through CashNet. Student authorization is required.

• Payments by cash, check, money order, or traveler’s check may be made in person at the University Cashiers office, Building 20 East, 8:15 a.m. - 4:45 p.m. for tuition and fees, housing, mandatory meal plans and other miscellaneous charges.

• Drop-box depository located at Building 20 East on the main campus. All payments must include the student’s name and UWF ID number to ensure correct and timely processing. Payments must be deposited in the depository by the close of business on the fee payment due date to be considered on time. Do not include cash when using the drop-box.

• By mail. Mail must be received by the due date to be considered on time. Postmark date is not considered on time. All payments must include the student’s name and UWF ID number to ensure correct and timely processing. Mail payments to UWF Cashiers Office, 11000 University Parkway, Building 20 East, Pensacola, FL 32514-5750.

Students paying fees by mail or by drop-box depository must include all fee payment documents (original copies of fee waiver forms, fee deferment forms, tuition aid forms, etc.) to ensure proper and timely credit for payment. Students are expected to meet all financial obligations as they become due. UWF reserves the right to cancel the registration of students who fail to promptly meet their financial obligations to the University. Students may not pay delinquent account balances applicable to a prior academic year from financial aid awards applicable to the current academic year. All delinquent balances must be paid in full prior to the disbursement of current term financial aid. It is each student’s responsibility to stay informed of all registration and fee payment dates, deadlines, and other requirements by referring to the Academic Calendar (p. 5) and viewing their Account Balance in MyUWF (https://my.uwf.edu). If necessary, students should inform their parents or other interested parties of the deadline dates and the necessity for meeting them.

When to Pay Fees

A student becomes liable for his or her tuition upon registration. There are only two due dates per term. Fees for courses remaining on the student’s schedule at the close of the drop/add period must be paid by the fee payment due date. The start date of your earliest class determines your fee payment due date. Payment for classes added after the initial due date are due immediately. For more information and specific examples refer to the Student Financial Services web page at http://uwf.edu/financial/.

Payments are applied to charges on your tuition account in order of the charge due dates. For charges with the same due date, payments are applied first to tuition and mandatory fees and then to other charges on your account.

Authorized deferment status may be granted under certain conditions. All students placed in a deferred fee payment status must confirm the deferred status with the University Cashier or Student Accounts Office. Failure to pay all fees or receive authorized deferred payment status by the fee payment due date may result in the assessment of a $100 late payment fee or cancellation of the student’s registration. Students whose registration is canceled due to non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee. The student will be held liable for all fees assessed for courses remaining on the student's registration at the close of the drop/add period for which a partial payment of fees has occurred or an authorized fee deferment status has been granted. Under such circumstances, the student’s registration may or may not be canceled. An administrative hold will be placed on the student’s record until the course fees and the late fees are paid in full.

Financial Aid Delivery

Financial aid awards that are complete prior to the beginning of each term and available for disbursement, including loans and scholarships, are processed by Student Accounts. Tuition, fees, housing, meal plans and any other outstanding charges are deducted from the financial aid proceeds and the remaining funds are sent to Higher One (UWF’s contracted refund management partner) for disbursement via the method chosen by the student. It is the student’s responsibility to ensure that all tuition, fees, and other charges are paid in full by the due date. Any balance over and above the amount that is covered by available financial aid must be received in the University Cashiers Office.
Office by the fee payment due date to avoid assessment of a $100 late payment fee.

Federal financial aid (Pell, SEOG, Subsidized, Unsubsidized, Plus and Perkins Loans) can only be used to pay for tuition and fees, housing, meal plans, and the university ID card. Students may use their Federal financial aid to pay other charges on their account by signing the Title IV Authorization Form. This form gives UWF permission to apply federal aid to miscellaneous charges on the student account, such as bookstore charges, library fines, and parking tickets.

The netting of financial aid awards begins after the drop/add period. Late awards of financial aid are processed in the same manner throughout each academic term. All excess financial aid will be sent to Higher One for disbursement. All degree seeking students will receive an inactive UWF Debit Card at the current address listed in MyUWF (https://my.uwf.edu). It is the responsibility of each student to keep their current address updated with the Office of the Registrar. Address changes can be made in person or over the web.

**UWF Debit Card—DO NOT DISCARD**

The information on the card is necessary in order to gain access to the Higher One website. Once logged into the system via the website, the following two options are available for the disbursement of financial aid:

1. Higher One OneAccount checking account/easy refund option (which activates the UWF Debit Card), OR
2. ACH funds to an existing bank account.

Note: The UWF Debit Card only becomes active if option 1 is chosen, the Higher One OneAccount refund option. Students who choose the ACH option and plan to subsequently transfer funds to a foreign financial institution must contact the Student Accounts Office at (850) 474-3037.

**Tuition Loan Program (TLP)**

Eligible students may pay tuition and fees in two equal installments. One-half of the total tuition and fees is payable by the fee payment due date with the remainder payable by midterm. The TLP application is available online through MyUWF (https://my.uwf.edu). The application, including the promissory note, must be completed and submitted to the Student Accounts Office during the fee payment period. Each installment must be paid by the appropriate fee payment due date to avoid assessment of a $100 late payment fee. Students must have a favorable credit rating with the University to be eligible for the Tuition Loan Program. A $15 service charge will be added to all TLPs. Contact the Student Accounts Office at (850) 474-3037 for detailed information.

**Contracts and Fees Paid by Another Agency**

Students who are registering for courses which will be partially or fully paid by their sponsoring agencies must bring the contracts or authorization forms and partial payments, if applicable, to the Cashiers Office during the registration period. Students must confirm the fees-paying status with the Cashiers Office during the designated fee payment period.

If the authorization is to be mailed to the Cashiers Office by the agency, it must be received by the fee payment due date. The student must confirm third party billing status with the Cashiers Office during the fee payment period. Failure to meet these requirements will result in the assessment of a $100 late payment fee. Any change in method of fee payment after the fee payment due date will result in the assessment of a $100 late payment fee. An example is to change from a VA deferment or tuition loan to another type of third party billing arrangement.

**Delinquent Balances**

Students who have delinquent balances at the University (financial aid billings, loans, library fines, traffic fines, etc.) must pay in full to avoid assessment of additional collection costs. Failure to pay the balance will result in holds being placed which will prevent registration as well as the release of diplomas, grades, and transcripts. Holds could also prevent the release of financial aid.

**Tuition Waivers**

Students who are registering for courses which will be partially or fully paid by a tuition waiver must submit the authorization form to the appropriate office during the registration period. Students must confirm the tuition waiver status with the Cashiers Office during the designated fee payment period. Any portion of the student’s account balance not covered by a tuition waiver or other financial aid must be paid by the fee payment due date. Failure to meet these requirements will result in the assessment of a $100 late payment fee.

**Florida National Guard**

Certain members of the active duty Florida National Guard may be exempt from the payment of one-half of the cost of tuition and fees for courses on a space-available basis only. Students using this waiver may not register for courses subject to the waiver until the last day of registration. Certain members of the Florida National Guard may qualify for that portion of fees not otherwise waived to be paid directly by the Florida Department of Military Affairs when authorized by that agency.

**Graduate Assistantships**

Graduate assistants who have at least a .25 FTE appointment may be eligible for a matriculation fee waiver which applies to a portion of the in-state tuition. Out-of-state graduate assistants may be eligible for a waiver of the out-of-state portion of the tuition. Contact the Graduate School at (850) 473-7716 or the academic department for further information.

**Senior Citizens—Florida Residents**

Individuals who are 60 years or older and who meet Florida residency requirements may enroll on a space-available basis without payment of the application and registration fee. Contact the Office of the Registrar at (850) 474-2244 for more information.

**Special Risk Dependent**

Dependents of special risk members as defined in Sections 112.190 and 112.191, Florida Statutes (law enforcement, correctional and correctional probation officers and fire fighters), killed in the line of duty are eligible for waiver of tuition and fees under certain circumstances. The amount waived shall not exceed 120 credit hours. The benefit shall continue until the student’s 25th birthday for dependent children. The benefits provided to a spouse must commence within 5 years after the death occurs and shall continue until the 10th anniversary of that death. Only a student in good standing may receive the benefits thereof.
State Employee Six-hours Free Course Benefit

State Employees are eligible for six hours of tuition free courses per term (fall, spring, and summer). Certain portions of course fees are not covered by the waiver and must be paid by the fee payment due date to avoid the assessment of a $100 late payment fee or the cancellation of registration. Refer to State Employees (p. 39) in the Registration Policies and Procedures section of this Catalog for detailed procedures and policies.

Out-of-State Students

Out-of-state students, including, but not limited to, students who are undocumented for federal immigration purposes who meet the following conditions are eligible for a waiver of out-of-state fees: attended a secondary school in Florida for 3 consecutive years immediately before graduating from a high school in Florida; apply for enrollment within 24 months after high school graduation; and, submit an official Florida high school transcript as evidence of attendance and graduation. The waiver is applicable for 110 percent of the required credit hours of the degree or certificate program for which the student is enrolled. A student who is granted an out-of-state fee waiver is not eligible for state financial aid.

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

Honorably discharged veterans of the United States Armed Forces, the United States Reserve Forces, or the National Guard who physically reside in Florida while enrolled in the institution are eligible for a waiver of out-of-state fees. The veteran must present to the University a copy of the Department of Defense Form 214 (DD-214) and documentation as proof that the veteran physically resides in Florida. Application is required at the beginning of each academic year. The waiver is applicable for 110 percent of the required credit hours of the degree or certificate program for which the student is enrolled.

UWF Employee Tuition Waiver Program

Eligible full-time UWF employees are permitted to take up to six credit hours of undergraduate or graduate coursework at UWF per term (fall, spring, and summer) without payment of tuition or mandatory fees. Certain portions of course fees are not covered by the waiver and must be paid by the employee or dependent by the fee payment due date to avoid the assessment of a $100 late payment fee or the cancellation of registration. Employees may also assign up to six of their undergraduate credit hours or up to three graduate credit hours to their dependents. Courses such as directed studies, practicums, internships, music and theater performance, continuing education, and other one-on-one course situations such as theses and dissertations are not authorized.

Late Registration and Late Payment Fees

Provided documentation is received by the institution to indicate extenuating circumstances justifying a waiver, the University Controller may waive the late payment fee and the University Registrar may waive the late registration fee when it is determined that the University is primarily responsible for delinquency of a student’s account or extenuating circumstances exist beyond the control of the student.

Deferred Payments

Deferred payment status for tuition and registration fees may be granted upon application by the student on the following grounds:

Veterans Deferments

- Deferral eligibility is granted to students receiving veterans' education benefits from federal assistance programs if aid is delayed in transmission to the student through circumstances beyond the student's control.
- Veterans and other eligible students receiving veterans' education benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic term. A 30-day deferment may be issued for the fall and spring terms and a 30-day deferment may be issued for the summer and mini terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date.

A veteran may request a deferment (promissory note) via their VA Enrollment Certification in MyUWF (https://my.uwf.edu) or at the Veterans Services Office (VSO) for the amount of tuition and fees. The VSO will submit the approved promissory note to the University Cashier prior to the fee payment due date. Failure to make payment by the deferment due date will result in the assessment of a $100 late payment fee. Students who do not make payment or request a deferment may have their registration canceled. Students whose registration is canceled due to non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee. If a student has available financial aid, it will be used prior to the application of the deferment to pay tuition, fees, and other charges.

Any change in a VA deferment to a National Guard or other military billing status after the fee payment due date will result in the assessment of a $100 late payment fee.

The University reserves the right to deny deferral status to students who have established an unfavorable credit rating.

Third Party Billings

Deferral is permitted provided formal contractual arrangements have been made with the University for payments by an approved third party. The University Controller is charged with the responsibility for negotiating third party contracts.

Students are ultimately responsible for all tuition and fees. If the agency (including the Veterans Administration) has not paid tuition and fees by the end of the semester, the student is required to pay all tuition and fees in full. Failure to do so will result in an administrative hold being placed on the student's record and the assessment of a $100 late payment fee.

Refund of Fees

The late payment fee and late registration fee are nonrefundable unless waived by the University Fee Appeals Committee.

Full refunds will be made to the student when a course is canceled by the University or when a student is denied access to a University course. During the drop/add period the per credit hour fee will be fully refunded for each semester hour or course(s) dropped during the drop/add period.

A student who officially withdraws from all classes at the university within the first four weeks of the semester will be entitled to a refund of 25% of the per credit hour fee for classes for which the drop/add period
has passed. Withdrawal from classes for which the drop/add period has not passed will be treated as a drop and the per credit hour fee will be fully refunded.

**Return of Title IV Funds (Student Responsibility)**

The University of West Florida is required by federal regulation to monitor financial aid students who receive Title IV Funds (Pell, SEOG, Direct Loans, Perkins and Plus Loans). Students who have officially or unofficially withdrawn (stopped attending classes without notification) from all courses before completing 60 percent of the term are not eligible for 100 percent of their federal financial aid.

The University is required to return the unearned portion of the Title IV Funds to the Federal Department of Education. Returned unearned aid that is related to federal loans will be applied to the outstanding balance of the loans.

Financial aid that is returned to the Federal Department of Education will become a debt that the student owes the University. This amount will be placed on the student's account and a hold will be placed on the student's account preventing registration and release of grades and transcripts. Contact the Student Accounts Office for exact dates and repayment requirements (850-474-3038 or stuacct@uwf.edu).

**Appeal for Late Fee Assessments and Refunds**

Student appeals for late payment fees, late registration fees, and refunds of tuition and mandatory fees after the refund deadline are referred to the University Fee Appeals Committee. Requests for refunds and other appeal actions to be considered by the Committee must be submitted within six months after the end of the semester to which the refund or appeal action is applicable. Requests made after that deadline will not be considered.

All appeals must be submitted in writing with attached supporting documentation to the Student Accounts Office in Building 20E. Fee appeal forms are available in the Student Accounts Office and on the web at MyUWF (https://my.uwf.edu) or uwf.edu/financial.

In the following instances, the per credit hour fee will be refunded upon appeal with appropriate documentation:

- Call to or enlisted in active military service within the semester; death of the student or death in the immediate family (parent, spouse, child, sibling); complete withdrawal of the student from all courses due to illness of the student that is confirmed in writing by a physician, stating that completion of the term is precluded; or exceptional circumstances upon approval of the Committee.

The filing of an appeal before the University Fee Appeals Committee does not extend the due date for tuition and mandatory fees, tuition loans, deferments or other charges while awaiting a decision by the Committee. Such charges not paid by the fee payment due date will be assessed a $100 late payment fee. All questions regarding fee appeals should be directed to the Student Accounts Office at (850) 474-3038 or feeappeal@uwf.edu.
Residency for Tuition Purposes

To qualify as a Florida resident for tuition purposes, the student must be a U.S. citizen, permanent resident alien, or a legal alien granted indefinite stay by the U.S. Bureau of Citizenship and Immigration Services, and must have established physical and legal residence in Florida for at least the last 12 consecutive months. Students who do not meet these basic criteria cannot be classified as Florida residents for tuition purposes. Questions regarding residency status upon application and readmission to UWF should be directed to the Graduate School. Questions regarding a change of residency status for currently enrolled students should be directed to the Office of the Registrar.

Determination of Dependent or Independent Status

Students enrolled in a graduate program (master’s, specialist, or doctoral) are considered independent for residency purposes. Graduate students wishing to claim dependent status should contact the Graduate School (new graduate students) or the Office of the Registrar (change of residency status) for required information to prove dependent status.

Residency Documentation

In addition to being a U.S. citizen, permanent resident alien, or legal alien granted indefinite stay by INS, a student must provide the following documentation at least one week prior to the first day of classes for any given semester:

Status

- Students enrolled in a graduate program are considered independent for residency purposes (petitioners are not required to evidence their independent status), OR
- If basing residency classification on spouse’s residency status: documentation of being the spouse of someone who has resided in the state of Florida for the previous 12 months with the intent of establishing a permanent home (requires the marriage certificate, the residency statement and supporting documentation of the spouse, plus a photo copy of the student’s Florida driver’s license, voter registration, or vehicle registration), OR
- If claiming dependent status: documentation of dependent status and documentation that your parent, legal guardian (court appointed), or adult relative (resided with for 5 years), has resided in the state of Florida for the previous 12 months with the intent of establishing a permanent home (requires copy of current IRS return from parent, legal guardian, or adult relative, and the residency statement and supporting documentation should be that of the parent, legal guardian, or adult relative); AND

Residence

Documentation establishing legal residence in Florida by one of two means (must be dated at least one year prior to the first day of classes of the semester for which resident status is sought):

- Proof of purchase of a permanent home in Florida in which the student has resided for at least one year prior to the first day of classes, OR
- Proof that the student has maintained residence in Florida for the preceding year (e.g., rent receipts, canceled checks, or notarized statement from a landlord); AND

Establishment of Domicile

Documentation establishing bona fide domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education must be dated at least one year prior to the first day of classes of the semester for which resident status is sought. The following documents will be considered evidence of domicile even though no single criterion will be considered as conclusive evidence of domicile:

- Florida voter’s registration
- Florida driver’s license
- A State of Florida identification card
- Florida vehicle registration
- Proof of a permanent home in Florida which is occupied as a primary residence by the individual or by the individual’s parent if the individual is a dependent child (e.g., deed, tax receipts)
- Proof of a homestead exemption in Florida
- Florida professional or occupational license
- Declaration of Domicile in Florida
- Florida vehicle registration
- Declaration of Domicile in Florida
- Proof of permanent full-time employment in Florida for at least 30 hours per week for the 12 consecutive months before classes begin (e.g., letter on company letterhead from an employer verifying permanent employment)
- Proof of membership in a Florida-based charitable or professional organization
- A document evidencing family ties in Florida
- Any other documentation that supports the student’s request for resident status, including, but not limited to, utility bills and proof of 12 consecutive months of payments; a lease agreement and proof of 12 consecutive months of payments; or an official state, federal, or court document evidencing legal ties to Florida

No Contrary Evidence

No contrary evidence establishing or maintaining residence elsewhere.

Special Categories for Temporary Florida Residency

- Active duty members of the Armed Services of the U.S. stationed in Florida and their spouses and dependents.
- Full-time instructional and administrative personnel employed by state public schools and institutions of higher education and their spouse and dependents.
- Students who are a part of the Latin American/Caribbean Scholarship Program.
- U.S. citizens living on the Isthmus of Panama and have completed 12 consecutive months of college work at the FSU Panama Canal Branch, and their spouses or dependent children.
- Participants of Southern Regional Education Board’s Academic Common Market.
- Full-time employees of state agencies or political subdivisions of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training.
- McKnight Fellowship recipients who are U.S. citizens.
• Active drilling members of the Florida National Guard who qualify under Florida statute for the tuition assistance program.
• Active duty members of the Armed Services of the United States and their spouses/dependent children attending a Florida College System institution or state university within 50 miles of the military establishment where they are stationed, if such a military establishment is within a county contiguous to Florida.
• Active duty members of the Canadian military residing or stationed in Florida under the North American Air Defense (NORAD) Agreement, and their spouses and dependent children, attending a Florida College System institution or state university within 50 miles of the military establishment where they are stationed.
• Active duty members of a foreign nation’s military who are serving as liaison officers and are residing or stationed in Florida, and their spouses and dependent children, attending a Florida College System institution or state university within 50 miles of the military establishment where the foreign liaison officer is stationed.

Alabama Differential Out-of-State Tuition

Residents of Alabama are eligible for the Alabama Differential Tuition Plan, a reduced out-of-state tuition rate. For more information, new students should contact the Graduate School and currently enrolled students should contact the Office of the Registrar.

Alabama residents must be U.S. citizens, permanent resident aliens, or legal aliens granted indefinite stay by INS, and meet one of the following requirements to qualify for differential tuition:

• Be an independent person (students enrolled in a graduate program are considered independent for residency purposes) who has established and maintained legal ties within the state of Alabama as evident by a combination of driver’s license, vehicle registration, voter registration, Declaration of Domicile, etc. for the previous 12 months. If qualifying as a spouse of a legal resident of Alabama, a copy of the marriage certificate is also required.
• Be a dependent person, according to the Federal Income Tax Code, whose parent or legal guardian has established and maintained legal ties within the state of Alabama as evident by a combination of parent/guardian’s most recent IRS tax return (section listing dependents) and parent/legal guardian’s driver’s license, vehicle registration, voter registration, Declaration of Domicile, etc. for the previous 12 months.
• Be a member of the Armed Services of the United States, on active military duty pursuant to military orders, who is stationed within the state of Alabama or whose state of legal residence, as evident by the HOR or LES, is Alabama. If qualifying as a spouse of a qualified armed services member, a copy of the marriage certificate is also required. The most recent IRS tax return (section listing dependents) may be required for a dependent child.

Change of Residency Status

Change of Residency or reclassification procedures apply to any student who attended UWF within the last three semesters and is requesting a change to his or her residency status. A student who has been enrolled, while classified as a “non-Florida resident for tuition purposes” and wishes to be considered for reclassification as a “Florida resident for tuition purposes,” should file with the Office of the Registrar a “Request for Change of Residency Status” form, with copies of supporting documentation attached. The request and documentation must be submitted one week (7 days) prior to the first day of classes for any given semester.

This request for reclassification is also required for students who are active duty or discharged members of the Armed Forces who wish to change from non-Florida or temporary Florida resident to Florida resident status.

Living in or attending school in Florida will not, in itself, establish legal residence. An individual must be able to demonstrate that his/her activities in Florida during the qualifying period are not primarily student related. Residency in Florida must be for the purpose of establishing a permanent home and not merely incidental to enrollment at an institution of higher education. A period of non-enrollment during the 12 month qualifying period may be required. In addition, university residence halls, fraternities, sororities, scholarship houses, and other UWF campus addresses are not permanent addresses for residency purposes. The burden of proof of permanent residence lies with the student.
Graduate Academic Policies

In this section:
- General Policies (p. 28)
- Registration Policies and Procedures (p. 36)
- Grades and Academic Credit Policies (p. 40)
- Graduation and General Degree Requirements (p. 41)

General Policies

The Office of the Registrar maintains the official academic records of all students and course registrations for currently enrolled students. Students are encouraged to contact the Registrar's Office with questions concerning academic policies and procedures of their current registration, enrollment, or academic records. Registration dates are published in the Academic Calendar (p. 5).

University Responsibilities

The faculty, administration, and staff share a responsibility to provide accurate information and effective advice. The Division of Enrollment Affairs is responsible for providing students, faculty, and other advising staff with accurate information in the Catalog, Navigation Guide, and other publications.

The academic advisors in the College of Arts and Sciences, College of Business, and College of Professional Studies are responsible for acting as a resource to provide students with timely and accurate information on University-wide requirements, policies, procedures, and referrals to appropriate services.

College and Department Responsibilities

The dean of each college and chairperson of each department ultimately are responsible for ensuring that academic advice is available and accessible to all students within the college or department.

Student Responsibilities

Students ultimately are responsible for knowing and fulfilling all University, college, and program requirements for graduation. Students should use the Catalog, advisors, and other resources for information.

Student Technology and Electronic Mail Requirement

UWF prepares students for current and future business and life applications using basic technology. Each UWF student is expected to do the following:
- Activate a MyUWF student account
- Access the MyUWF portal a minimum of 2-3 times a week
- Access UWF e-mail account (Gmail) 2-3 times a week
- Have basic word-processing knowledge

Student use of UWF information technology resources is governed by the Computing Resources Usage Agreement and the Student Communications Policy. (See the My Account app in MyUWF.) The University uses e-mail for both formal and informal communication with students. Each student, upon enrolling, is issued a UWF e-mail account (Gmail). All students are expected to regularly check their UWF e-mail account for University business and official University communications. UWF accounts remain the property of the University of West Florida. Students should expect that instructors may request assignments be completed on a computer and/or be turned in via e-mail rather than printed. Instructors should ensure that basic assignments can be completed using software packages currently available in MyUWF or eDesktop.

MyUWF

MyUWF is the University's secure, single entry point for fast and easy access to web-based services. Students may register, withdraw, drop and add classes, view their account balance, view grades, and more through MyUWF. Upon enrollment, each UWF student automatically receives a MyUWF account. To access MyUWF, students must activate their "new user" account from my.uwf.edu. Students manage their account and services from the My Account app in MyUWF. Students are responsible for information and actions taken through MyUWF.

Deadline Dates/Academic Calendar

Each student should be aware of the deadline dates in the current official Academic Calendar as published on the UWF Registrar's website (http://uwf.edu/registrar). The Academic Calendar contains deadline dates for admission applications, changes in residency status, class registrations, fee payments, course scheduling changes (drop/add), course withdrawals, thesis and dissertation submissions, and graduation applications.

Graduate students should obtain from their colleges and departments a detailed list of deadlines for the programs in which they are enrolled. Appeals related to deadlines for registration, drop and add, and other academic deadlines as published in the Academic Calendar should be addressed to the Office of the Registrar.

Enrollment Definition

Enrollment is defined as consisting of three major components:

Application: Students provide information requested by the University for purposes of establishing and administering academic and financial relationships that exist between the University and its students.

Registration: Students register for courses and provide information needed to assess fees and tuition.

Payment of Fees: Students must pay all assessed tuition and other special fees and satisfy all due and/or delinquent amounts payable to the University.

Students who withdraw will be considered no longer enrolled at the time of withdrawal.

Classification of Students

The classifications for graduate students are the following:

MASTERS: A student admitted to a master's program and completing work at the master's level.

SPECIALIST: A student admitted to a specialist program and completing work at the specialist level.

DOCTORAL: A student admitted to the doctoral program and completing work at the doctoral level.
Non-Degree Seeking Status

The non-degree classification at the graduate level is used only by those students who have completed a baccalaureate degree and who will not be working toward a graduate degree at UWF. Successful completion of courses in this classification does not provide a basis for degree status.

Graduate students may apply a maximum of 12 semester hours completed as a non-degree seeking student toward a graduate degree once admitted into a graduate program. Students should contact Graduate Admissions for more information concerning this process.

Non-degree students are subject to the student policies stated in the Catalog and Student Handbook and Planner. Non-degree students should review the Student Educational Records section to understand privacy information. Course work completed as a non-degree student will be included in the respective graduate level (master's, specialist, doctorate) GPA, determined by the level of the course. International students in F-1 status should consult with the Director of the International Student Office regarding enrollment as a non-degree student.

All Pensacola campus students are required to purchase a Nautilus Card. Parking a vehicle on campus requires a parking decal which may be purchased online. Contact the Cashiers Office for information. Compliance with the immunization policy is required prior to registration. Contact the Division of Student Affairs (http://uwf.edu/studentaffairs) for information. To be considered for degree status, students must contact the Graduate School and complete the required application. Returning non-degree students who do not maintain continuous enrollment must file a new non-degree student application in the Graduate School. The non-degree student registration period begins approximately two weeks prior to the first day of classes for the semester – see the Academic Calendar (p. 5) for specific dates.

Graduate degree-seeking students who wish to change to non-degree status will complete the non-degree student application in the Graduate School and submit an additional statement in writing indicating that a degree from UWF will no longer be pursued.

Academic Common Market

The Academic Common Market is an interstate agreement among southern states for sharing academic programs. Participating states enable their residents who qualify for admission to enroll in specific graduate programs in other states on an in-state tuition basis. Arrangements traditionally are limited to unusual programs or programs not offered within the state of residence. To enroll as an Academic Common Market student, an applicant must obtain certification from the common market coordinator in the student’s home state.

The Academic Common Market serves residents of the following 15 southern states: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

Students must be admitted to the appropriate degree program by the Graduate School, and the letter of certification must be received in the Office of the Registrar before the first day of classes for the effective term. Information on the state authorization of programs, the identity of the coordinator for a particular state, and UWF programs affiliated with the Academic Common Market can be found at http://www.sreb.org/page/1304/.

Academic Standing

Academic Standing serves as the formal notice of a student’s academic progress in terms of the University’s expectations for a successful academic career. Students are expected to maintain a minimum grade point average (GPA) on all work attempted at The University of West Florida. The rules are intended to define the University’s academic expectations, alert a student of the need to improve academic performance, and give them an opportunity to meet the University’s academic expectations. Academic standing rules apply to all students, including non-degree students.

Students are advised that these are minimum GPA requirements for continuing at the University; to meet program graduation requirements, higher grade point averages may be needed.

Academic Standing rules are applied at the end of each semester after grades are submitted. At the end of each primary semester (Term 1) the Academic Standing is calculated. This calculation is based on the cumulative GPA hours and UWF (Institutional) cumulative GPA. Academic Standing is calculated at the career level (i.e. Undergraduate, Masters, Specialist, Doctoral), not at the program level.

Master’s and Specialist

Good Academic Standing

Masters and Specialist students are expected to maintain a 3.0 or higher cumulative UWF GPA. Students are considered to be in good academic standing when the academic status is listed as Good Standing.

Academic Probation

Masters and Specialist level students will be placed on probation at the completion of the semester during which the cumulative UWF GPA falls below 3.0. A grade of “S” (satisfactory) is not considered in the evaluation of academic standing. Students will be notified of any change to their academic status by their department.

Graduate students on probation are required to attain a cumulative UWF GPA of 3.0 upon completing the next semester of enrollment. With the approval of the department chairperson and college dean, a student on probation in a graduate program may apply for admission to another graduate program provided requirements for admission to that program are met. Applications must be processed through the Graduate School.

Students must be cleared from academic probation in order to be eligible to graduate.

Academic Suspension

Masters and Specialist students not achieving a cumulative UWF GPA of 3.0 within the probationary semester will be suspended from the program. Written notification will be mailed by the department to the student. The academic department and college dean have the prerogative to continue a student on probation as determined by the student’s individual circumstances and potential for academic success.

With the approval of the department chairperson and college dean, a student suspended from a graduate program may apply for admission to another graduate program provided requirements for admission to that program are met. Applications must be processed through the Graduate School.
Reinstatement

Students suspended from a graduate program may petition for reinstatement after the lapse of one academic semester during which the student is not enrolled at UWF. Written evidence of eligibility must be submitted to the college dean. Graduate students on suspension may submit a written appeal to the college dean who may refer the matter to the College Academic Standards Committee. If reinstatement is approved, and if the student fails to achieve a semester GPA of higher than 3.0 within the semester of reinstatement, the student will be dismissed from the program. If the student achieves a semester UWF GPA of higher than 3.0, but the cumulative UWF GPA is less than 3.0, the student will continue on academic probation following the probation rules.

Students not attending UWF the previous three semesters must file an application for readmission with the Graduate School.

Doctoral

Good Academic Standing

Doctorate students are expected to maintain a 3.25 or higher cumulative UWF GPA. Students are considered to be in good academic standing when the academic status is listed as Good Standing.

Academic Probation

A student’s degree program GPA must be at least 3.25 (on a 4.0 scale) for all courses taken at UWF. No grades of “C+” in the major courses and no grade of “D” may be counted toward the Doctor of Education degree. A grade of “S” (satisfactory) is not considered in the evaluation of academic standing. Students who do not maintain a cumulative UWF GPA 3.25 are placed on academic probation. Specialization areas may have additional requirements regarding acceptable letter grades for major courses that are counted toward the Ed.D. degree. Graduate students on probation are required to attain a cumulative UWF GPA of 3.25 upon completing the next academic semester, following the date which the student was placed on academic probation. Students not achieving this requirement will be suspended from the program. The academic department has the prerogative to continue a student on probation as determined by the student’s individual circumstances and potential for academic success.

Academic Suspension

Students who do not achieve a cumulative UWF GPA of 3.25 within the probationary semester will be suspended from the program. Departments may make exceptions to this rule based on individual hardships and potential for academic success. Students should consult the Ed.D. Program Office for requirements for the Preliminary Examination and continued enrollment in the program.

Reinstatement

Students suspended from a graduate program may petition for reinstatement after the lapse of one academic semester during which the student is not enrolled at UWF. Written evidence of eligibility must be submitted to the college dean. Students on suspension may submit a written appeal to the college dean who may refer the matter to the College Academic Standards Committee. Students who are suspended must submit an appeal within the 12 month or three semester period following notification of suspension. Students who do not submit an appeal within the 12 month period must reapply to the program through the Graduate School. Readmitted students are responsible for the degree requirements in effect at the time of reapplication.

Non-Degree Students

Non-degree students are subject to the same academic standards and review procedures as students admitted to graduate degree programs based on the level of the student (masters, specialist, doctorate levels).

Accelerated Bachelor's to Master's Programs

The Accelerated Bachelor's to Master's (ABM) programs allow high-performing undergraduate students at the University an opportunity to complete the requirements for both the bachelor's and master's degrees at an accelerated pace. Undergraduate students in an ABM program may apply up to twelve (12) graduate (5000-6000 level) credit hours towards the completion of both the bachelor's and master's degree requirements.

Admission to an ABM Program

Refer to the Admissions General Information (p. 10) section of this Catalog for criteria for admission to an ABM program.

Requirements for Participation and Graduation

• Students must complete the bachelor's degree prior to entering the master's program. Students in the ABM may not elect to by-pass the bachelor's degree.
• Students must meet all Graduate School and departmental regular admission requirements.
• Students must receive a grade of "B" or better in each of the graduate level courses that are being applied to both degrees. Courses with a grade of "B-" or below cannot be applied to the master's degree.
• No more than twelve (12) hours of graduate work (5000-6000 level) may be counted towards the bachelor's degree.
• Students in non-thesis programs must complete all master's degree requirements and obtain the master's degree within 18 months of completing the bachelor's degree. Students in thesis or extended hour programs (36 s.h. or more) must complete the master's degree requirements and obtain the master's degree within 24 months of completing the bachelor's degree. If the master's program is not completed within this time limit, the student is no longer eligible to apply the credit hours towards both degrees (i.e., the student can only apply the credit hours either towards completion of the bachelor's degree or to include in a future master's degree) and is automatically terminated from the ABM program.

Continuing Eligibility

• It is the responsibility of the student to recognize his/her eligibility status.
• If a student completes the bachelor's degree requirements with an accumulated GPA of less than 3.25, then he/she is no longer eligible to apply the credit hours towards both degrees (i.e., the student can only apply the credit hours either towards completion of the bachelor's degree or to include in a future master's degree) and is automatically terminated from the ABM program. Individual departments may have higher requirements and failure to meet these requirements will make a student ineligible to participate in the ABM program.
• A student who does not follow the approved degree plan may become ineligible to participate in the ABM program.
• A student who is ineligible to continue participating in or withdraws from the ABM program cannot apply any courses towards both degrees.

• If a student becomes ineligible to participate in the ABM program, the graduate advisor must inform the student in writing of his/her ineligibility. A copy of this letter to the student must be sent to the Graduate School.

Graduate Assistantship Eligibility

Students who are enrolled in the ABM program are not eligible for graduate assistantship positions until they complete the bachelor's degree.

Withdrawal

A student may at any time withdraw from an approved ABM program by informing the undergraduate and graduate advisor(s) in writing. A student who withdraws from the ABM program without finishing can not use any completed graduate courses in future master's degrees at the University if the courses are used towards the completion of the undergraduate degree.

Advancement to Candidacy

Advancement to candidacy may be required by some departments. This is a separate step from admission to graduate studies. Students are responsible for determining the requirements in each area of study by consulting with the department chairperson.

Catalog Year

Continuously Enrolled Degree-Seeking Students

The catalog year for a graduate student's program will be the catalog year in effect at the time of initial enrollment as a degree-seeking student. Those students who do not change their program, specialization, or track and who maintain continuous enrollment at the University have the option of following the catalog in effect at the time of initial enrollment as degree-seeking students or the catalog in effect at the time of graduation. Students who elect to change their program, specialization, or track (either through a new application or through a track change request) have the option of following the catalog in effect at the time of the new application or program, specialization, or track change or the catalog in effect at the time of graduation.

Non-Continuously Enrolled Degree-Seeking and Readmitted Students

Students who do not maintain continuous enrollment and who are readmitted to the University after non-enrollment of three consecutive semesters (summer semester included) have the option of following the degree program outlined in the catalog in effect at the time of re-enrollment as degree-seeking students or the catalog in effect at the time of graduation.

Readmission

Refer to the General Readmission (p. 14) section of this Catalog for information.

Certificate Programs

The University offers a variety of certificate programs to pursue as a stand alone certificate, to complete in conjunction with a graduate degree, or to take for professional development. Requirements are determined by the academic department offering the certificate.

Upon approval and notification to the Office of the Registrar from the academic department, awarding of a certificate is listed on the transcript. Actual certificates of recognition may or may not be issued by the academic department. Contact the academic department offering the certificate program for more information, including application procedures. Click here for the listing of certificate programs in this Catalog.

Change of Program

Graduate students desiring to pursue a new graduate program must complete a new application for graduate admission. Contact the Graduate School for further information.

Doctoral Program

Faculty in individual specialization areas review, approve, or deny admission of students who apply to a selected area. A student is admitted into the Ed.D. program when a specialization area admits a student into the specialization. Students admitted and enrolled in course work in the Ed.D. program, choosing to change their specialization area, must reapply for admission to the Ed.D. program through the Graduate School. Students must complete requirements in effect at the time of admission.

Class Attendance

The University expects students to take full responsibility for their academic work and academic progress. To progress satisfactorily, students must meet the requirements of each course for which they are registered. Successful work depends to a large extent on regular class attendance.

Class attendance is regarded as an academic matter. Each faculty member will provide a written attendance policy to each class within the first week of classes. The use of attendance records in grading and handling of any excuses for absences is left to the discretion of the faculty member responsible for the course, subject to the guidelines given below:

• Students will be excused from class to observe religious holidays of their faith. No major test, major class event, or major University activity will be scheduled on a major religious holiday.

• Absences for imposed legal responsibilities (e.g., jury duty, court appearance) will be recognized as excused absences.

• Absences resulting from participation in extracurricular activities in which students are official representatives of the University will be recognized as excused absences.

• Absences for serious illness, death or serious illness within the student’s immediate family, military obligations, or other sound reasons offered by the student may be accepted as excused absences.

It is the responsibility of students to know the attendance policy of each course they are taking. Students must inform their instructor(s) of absences from classes prior to or as soon as possible after the absence. Instructors have the right to request verification for all excused absences. Students are held accountable for all assignments in each course, whether or not the assignments were announced during an absence. Faculty are encouraged to provide opportunities for students to make up examinations and other work missed because of an excused absence.

Reserve/National Guard Duty

To fulfill a reservist or National Guard military obligation of no more than two weeks concurrent with a normal academic semester at UWF,
students must receive written permission for such absences from the instructors and departmental chairpersons for each course in which they are enrolled. The approval is not automatic but is discretionary with the instructors and departmental chairpersons.

**Comprehensive or General Examination**

Most departments require a written and/or oral general examination. The examination may be an initial diagnostic or a final comprehensive examination over the student's fields of study. Students must pass any examination required by the department to be recommended for a graduate degree.

**Continuous Enrollment**

Consecutive continuous enrollment is defined as enrollment in the University without a non-enrollment period of three or more semesters (summer semester included). Credits earned at other institutions during any semester, while not registered at UWF, will not constitute continuous enrollment at UWF.

**GPA Requirement**

**Master's**

A student must satisfy the UWF GPA requirement of 3.0 based upon grades for all courses included in the initial and approved degree plan and grades for all courses included in subsequent revisions. No grade for a course taken as part of an approved graduate degree program may be deleted from the GPA. Individual programs may set more stringent GPA requirements. Students must be cleared from academic probation in order to be eligible to graduate.

The UWF academic transcript, the student academic record, and grade report do not reflect the degree program GPA. These records indicate a GPA of all UWF graduate level courses with the exception of those included in a UWF baccalaureate degree.

**Specialist**

Refer to the Specialist Degree Requirements in the Graduation and General Degree Requirements section of this Catalog.

**Doctoral Program**

Refer to the Doctor of Education Degree Requirements in the Graduation and General Degree Requirements section of this Catalog.

**Student Educational Records**

The University of West Florida complies with the Family Educational Rights and Privacy Act (FERPA) and Florida Statute related to the release of student educational records. Student educational records comprise any written information or recorded data maintained by the University, or by an entity acting on behalf of the University, which is directly related to a student who has applied for admission or who is or has been in attendance.

The following is a non-exhaustive list of categories of educational records along with the University custodian who maintains the records:

1. Academic Records (Departmental) – Faculty Chairpersons and Deans.
4. Disciplinary Records – Vice President for Student Affairs.
5. Financial Aid Records – Director, Student Financial Aid.
6. Housing Records – Director, University Housing.
7. Student Activities (including Athletics) - Vice President for Student Affairs.

The following are some categories of records which FERPA defines as not constituting student educational records (for a complete list see 20 U.S.C. s 1232g). These categories of records are not subject to FERPA and UWF regulations:

- Records maintained by individual University personnel which are solely in their possession and are not revealed to others.
- Records maintained by University police which are for law enforcement purposes.
- Records maintained by University employees which relate solely to the student as an employee and are not available for any other purpose.
- Records maintained by University medical or psychological personnel which are solely for treatment and/or counseling purposes.
- Records maintained by University personnel which contain only information relating to persons after they are no longer students.

FERPA provides certain rights to University students concerning their student educational records. Students are notified annually of their rights in association with the student education records (see Annual Notification of Student Records and Directory Information below).

**Change of Student Information**

Change of local, permanent, and emergency contact addresses; name; or other information affecting the student’s permanent academic record may be completed by currently enrolled students through MyUWF at my.uwf.edu. Forms are also available through the Office of the Registrar (http://uwf.edu/registrar).

**Student Photos**

Student photos are provided to faculty on electronic class rosters to assist in identifying students, personalizing the class experience, verification of attendance, and other class-related issues. Photos are used strictly for educational reasons, are confidential, and may not be published or released in any other context.

**Death of a Student**

In accordance with the Family Educational Rights and Privacy Act (FERPA), the University of West Florida’s policy regarding the disposition of records held pertaining to a deceased student state that the privacy interests of an individual expire with that individual’s death.

**Annual Notification of Student Records and Directory Information**

The disclosure or publication of student information is governed by the policies of the University of West Florida and the Board of Education within the framework of State and Federal laws, including the Family Educational Rights and Privacy Act of 1974.

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include the following:

- The right to inspect and review the student’s education records within 45 days of the day the University receives a request for access. A student should submit to the registrar, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be
inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

The right to request the amendment of the student’s education records that the student believes are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identifying the part of the record the student wants changed, and specify why it should be changed. If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

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

The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is the following:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

The University may release records without consent, under the following exceptions:

- “School officials” with a “legitimate educational interest” (need to know). Employees and legal agents have access to education records in order to perform their official, educationally-related duties;
- Disclosure to another institution where student seeks to enroll or is enrolled;
- Disclosure to Department of Education, state/local education authorities;
- Disclosure in connection with the receipt of financial aid (validating eligibility);
- Disclosure to state/local officials in conjunction with legislative requirements;
- Disclosure to organizations conducting studies to improve instruction, or to accrediting organizations;
- Disclosure to parents of dependent students (IRS definition);
- To comply with a judicial order or lawfully-issued subpoena;
- Disclosure for a health/safety emergency;
- Disclosure of directory information;
- Disciplinary information (Warner Amendment);
- Disclosure to the alleged victim, information from disciplinary proceedings;
- Only when found in violation, and only for crimes of violence—release of name, sanction and outcome (public information);
- Disclosure to parents of any student under the age of 21, a violation of federal, state, local or institutional laws/regulations related to substance abuse (Foley Amendment);
- Veterans Administration officials in response to requests related to VA programs
- Representatives of Homeland Security for purposes of the coordinating interagency partnership regulating international students (CIPRIS).

Directory Information

Directory information will be released for public records requests, the Campus Directory, and for other requests, unless otherwise specified by the student. The online campus directory is available only internally through MyUWF.

Under the provisions of the Family Education Rights and Privacy Act (FERPA), students have the right to withhold disclosure of directory information. The information listed below has been designated by the University as directory information and will be released or published by the University unless the student has submitted a request for “non-release” to the University in writing or via MyUWF.

- Name
- Local Address
- Permanent Address
- E-mail address
- Current telephone number
- Major field of study
- Participation in officially recognized activities and sports
- Dates of attendance at UWF
- Degree(s) earned at UWF
- Awards and Honors received (including Dean’s List and President’s List)
- Grade classification (Master’s, Specialist, Doctoral, etc.)

Students may choose to restrict their directory information through the Privacy link in their MyUWF account. Students who wish to have the privacy flag removed from their permanent academic record must contact the Office of the Registrar in writing or may submit the change online through MyUWF.

Student Right-To-Know Information

In compliance with the Student Right-To-Know legislation, data is available in the Office of Student Affairs, (850) 474-2384.

Directory - Students, Staff, and Faculty

The University publishes an online Campus Directory which includes a campus locator and the names, addresses, telephone numbers, and departmental affiliation for faculty, staff, and students. The electronic
directory is available internally through MyUWF for University students, faculty, and staff. Students who are also listed as employees of the University will have work related directory information included in the employee directory regardless of their student privacy status. Students may inform the University in writing if they choose to prevent publication of directory information. Students must indicate privacy through MyUWF or complete and submit a privacy form to the Office of the Registrar by the end of the fall semester’s drop/add period for information to be withheld from the published Directory (see Annual Notification of Student Records and Directory Information).

Thesis Requirement

Theses are to be prepared in accordance with the specifications given in the “Thesis and Dissertation Guide” prepared by and available in the Graduate School. All theses must be produced in electronic format (unless a hard copy is required by the individual department). Deadlines for submission to the Graduate School are posted online at uwf.edu/graduate.

Students should consult the current Graduate Catalog for the special requirements of the individual program to determine whether a thesis or alternative is required. A maximum of 6 semester hours of credit may be applied toward a master's degree for successful completion of a thesis. After registering for the first thesis credit, graduate students must be continuously enrolled each semester (excluding summer) until the thesis is approved by the Graduate School and all degree requirements have been completed. Failure to register for thesis hours for 3 consecutive semesters will result in the student having to reapply to the program, subject to the policies and procedures in effect at that time. Students who do not maintain continuous enrollment will be charged for 1 semester hour of thesis credit per semester for each semester during the time they were not continuously registered. A thesis grade of "C" (deferred) will be given until the final thesis has been approved by the Graduate School.

Time to Degree

Master’s

All coursework (including transferred credit) must be completed within six years from the date the UWF degree is awarded. The department may recommend that UWF and transferred courses which are older than six years be included in the student’s program of study if the department validates that the student has current knowledge related to the course subject matter.

Specialist

Refer to the Specialist Degree Requirements in the Graduation and General Degree Requirements section of this Catalog.

Doctoral

Refer to the Doctor of Education Degree Requirements in the Graduation and General Degree Requirements section of this Catalog.

Tool of Research Requirement

Although the University has no general research tool requirement, some departments expect demonstrated competence in a research tool, such as statistics or a foreign language. Students should refer to the appropriate department to ascertain whether a research tool is required.

Transfer of Credit

Master’s and Specialist

Graduate transfer credits must be approved by the student’s academic department. Graduate credits may be transferred from an institution that is fully accredited by a regional or national agency recognized by the United States Department of Education only when a grade of “B” or higher was earned in the graduate work to be transferred and when the credits were completed within six years from the date the UWF graduate degree is awarded. The department offering the degree program may recommend that transfer courses which were taken more than six years before the UWF degree is to be awarded may be included in the student’s program of study if the department validates that the student has current knowledge related to the course subject matter.

Students whose programs consist of 30 to 36 semester hours may have a maximum of six semester hours or two courses (whichever is greater in credit) of graduate work at other universities accepted toward their program requirements at UWF. The department chairperson’s permission is required for the credits to be accepted.

Students whose programs consist of more than 36 semester hours may have a maximum of 10 semester hours of graduate work from other universities accepted toward their program requirements at UWF. The department chairperson’s permission is required for the credits to be accepted.

Graduate transfer credit applicable to a specialist degree must have been earned within five years of the date of admission to the UWF specialist degree program and be approved by a student’s academic department.

Graduate credits, including those from a previously earned graduate degree, may be transferred upon approval of the student’s academic department.

The University recognizes graduate-level learning gained from specialized training and experience in the Military Services as recommended by the ACE Guide to the Evaluation of Educational Experiences in the Armed Services and apply that credit to a student’s degree program where appropriate. The department chairperson’s permission is required for the credits to be accepted.

Doctoral

Students who have completed an Educational Specialist degree within the previous five years at UWF can transfer a maximum of 21 semester hours of graduate credit earned beyond a master’s degree into the Ed.D. program. Students requesting to transfer course work from other institutions are advised on an individual basis. Graduate transfer credit must have been earned within five years of the date of admission and be approved by a student’s academic department. Students are eligible to transfer a maximum of 10 semester hours of graduate work from other universities accepted toward their program requirements at UWF. The department chairperson’s permission is required for the credits to be accepted.

Students who have completed an Educational Specialist degree program may have a maximum of 10 semester hours or 2 courses (whichever is greater in credit) of graduate work at other universities accepted toward their program requirements at UWF.

Students whose programs consist of more than 36 semester hours may have a maximum of 10 semester hours of graduate work from other universities accepted toward their program requirements at UWF. The department chairperson’s permission is required for the credits to be accepted.

All hours transferred into the Ed.D. program must align with the professional core and specialization course requirements. Students admitted into the Ed.D. program must enroll in at least 39 semester hours in the Ed.D. program at UWF (21 hours coursework and 18 hours dissertation). Exceptions on transfer work and the 39 hour rule will be determined by the Ed.D. Program Committee.

Students choosing to petition for a larger number of hours to be credited to the Ed.D. program must submit an “Ed.D. Student Petition” form to the Ed.D. Program Office.
Traveling Scholar Program

The University participates in a traveling scholar program which enables graduate students to take advantage of special resources available on another campus, but not available on the home campus. Examples are special course offerings, research opportunities, unique laboratories, and library collections.

A traveling scholar’s graduate advisor will approach an appropriate faculty member at the proposed host institution and recommend the scholar for a visiting arrangement. After agreement by the student’s advisor and the faculty member at the host institution, graduate deans of both institutions will be fully informed by the advisor and have the power to approve or disapprove. A student will register at the host institution and will pay tuition and/or registration fees according to fee schedules established at that institution. Credit for the work taken will be recorded at the home University.

Each university retains its full right to accept or reject any student who wishes to study under its auspices. A traveling scholar will normally be limited to one term on the campus of the host institution. A traveling scholar accepted by the host institution will be regarded as being registered at that institution for the period.

A traveling scholar is not entitled to displacement allowance, mileage, or per diem payments. The home university, however, may at its option continue its financial support of the traveling scholar in the form of a fellowship or graduate assistantship with any work obligation to be discharged either at the home or at the host institution.

UWF Academic Misconduct Code

This policy is available on the UWF web sites: uwf.edu/president/policies/ or uwf.edu/osrr/.

Students should contact the Dean of Students Office, Building 21, (850) 474-2383 for more information.

Forms of Academic Misconduct

Violations by a student of any of the following actions constitutes an offense will result in disciplinary action. Fraudulent or deceptive action involving academic matters, including the following:

- Cheating: The unauthorized giving or taking of any information or material on academic work considered in the determination of a grade.
- Plagiarism: The act of representing the ideas, words, creations, or work of another as one’s own.
- Bribery: The offering, giving, receiving, or soliciting of anything of value to influence a grade.
- Conspiracy: Planning with others to commit any form of academic misconduct.
- Misrepresentation: Any action or omission with intent to deceive a teacher so as to affect a grade.

Grievances

The Student Grievance System is available on the University of West Florida web site at http://uwf.edu/osrr/.

Students should contact the Dean of Students Office, Building 21, (850) 474-2383 for more information.

Students who wish to make a grievance, including grade appeals, should review the Student Grievance System in the Rights & Regulations section of the Student Handbook and Planner. The process of handling student non-academic grievances is also detailed in the current issue of the Student Handbook and Planner.

Appeals and Requests for Waivers or Exceptions

An appeal may be filed by a student to request an exception or waiver to a University academic requirement, policy, procedure, or deadline. There are several different levels and types of appeals. All academic appeals should be submitted within six months of the close of academic semester of the appeal.

Academic Appeals

The student must make a reasonable effort to contact the instructor, the department head, and the academic dean in an effort to resolve differences before filing an appeal. Listed below are the various types of academic appeals.

Department Level Appeal-(Academic Department)

Department level academic appeals include requirements for program admission, substitutions or waivers for department requirements, course prerequisites, and other department level decisions. Students should contact their academic advisor and department chairperson for information on the appeal process. The final appeal is determined by the college dean.

College Level Appeal-(Academic College)

College level academic appeals include decisions on probation and suspension actions, waivers or substitutions of college core courses, etc. Students should contact their academic advisor and the college dean for information on this process and required documents.

University Level Appeal-(Graduate Dean/University Registrar)

Most academic appeals fall under this category as this applies to those policies that are at the University level, or apply to all students regardless of program of study. Examples of University academic appeals include (but are not limited to):

- Late or retroactive withdrawals
- GPA requirement

The Academic Appeals Committee hears appeals from students who believe they have an exceptional circumstance or situation that warrants an exception or waiver. The Committee serves on behalf of the Provost to provide a University wide forum and decision making body for academic appeals. The Academic Appeals Committee normally meets biweekly. Appeals must be in writing on the appropriate forms and signed by the academic advisor, department chairperson, college dean, and graduate dean. Forms can be found on the Registrar website, uwf.edu/registrar. Appeals should include any and all appropriate documentation to support the appeal. Students will be notified by e-mail of the outcome of the appeal.

Substitution of Graduation Requirements for Students with Disabilities

Students with documented visual impairments, hearing impairments, motor impairments, or specific learning disabilities may petition for substitution of degree requirements provided such substitutions do not significantly alter the nature of the program in which the student is enrolled. For more information about the University’s degree
Degree-seeking students are responsible for arranging appointments with their assigned academic advisors prior to registration. Degree-seeking students who are enrolling for their initial semester at UWF must meet with their advisor prior to registration to discuss degree plans and have the advising hold deleted. Appointments can be made through the academic departments, or for Emerald Coast students, through the staff of the Emerald Coast campus. Degree-seeking students have priority for registration and enrollment.

Registration Holds

Holds preventing registration will be placed on the student record for one or more of the following reasons: incomplete admissions documents, financial obligations (parking tickets, library fines, etc.), administrative discipline, failure to comply with the immunization requirements, student athlete monitoring, etc. These holds must be removed prior to registration.

Students are able to view their grades, schedules, holds, and financial aid information in MyUWF (https://my.uwf.edu). Students should contact the appropriate office and arrange for removal of the registration hold to register for classes, receive official transcripts, grades, and diplomas.

Late Registration

Registration must be initiated prior to the first day of any given term within each semester to avoid the non-refundable late registration fee of $100.

Course Load/Maximum Hours Taken Per Semester

Master's and Specialist

Master's and specialist students may not enroll for more than 12 semester hours in a semester without the written permission of the academic advisor and the chairperson of the graduate program. For certification of enrollment, nine semester hours is considered full-time. Students who withdraw are not considered enrolled in the course once the withdrawal has been processed.

Doctoral

For full-time status, the University requires a doctoral student to register for a minimum of nine graduate semester hours. Students enrolled in dissertation hours are considered full-time. The maximum number of hours for which a doctoral student may register in any given semester without special permission is twelve. To register for more than twelve hours, students must complete an “Ed.D. Student Petition” form. Approval from the committee chair and the College of Professional Studies Graduate Office is required.

Certification of Enrollment

The University of West Florida reports enrollment status based on the definitions listed below. Information on enrollment is reported through the National Student Clearinghouse and is available for the semester beginning the first week of classes.

<table>
<thead>
<tr>
<th>Status</th>
<th>Fall/Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time</td>
<td>9 SH or more</td>
<td>9 SH or more</td>
</tr>
<tr>
<td>Half-Time</td>
<td>6-8 SH</td>
<td>6-8 SH</td>
</tr>
<tr>
<td>Less than Half-Time</td>
<td>0-5 SH</td>
<td>0-5 SH</td>
</tr>
</tbody>
</table>
Students participating in internships are not automatically considered full-time for the semester of their internship. The number of hours for an internship is based upon the credit hours granted for the internship.

Non-degree student's enrollment status is reported based on the level of the non-degree program.

Students enrolled in dissertation, thesis or cooperative education are considered full time regardless of the hours enrolled.

Students who withdraw are not considered enrolled in the course once the withdrawal has been processed, and enrollment status will be adjusted as of that time.

Students receiving Financial Aid should confirm requirements for financial aid eligibility.

Course Prerequisites/Corequisites

A prerequisite is a course in which credit must be earned prior to enrollment in another course. A corequisite is a course that must be taken concurrently with another course. A concurrent prerequisite may be taken either prior to or at the same time (concurrently) as another course. These requirements are included in the course search (https://confluence.uwf.edu/display/public/Searching+for+Course+Offerings).

It is the student's responsibility to review prerequisite and corequisite information as stated in the course description. Non-degree students should contact the academic department for permission to enter any course that requires a prerequisite. UWF reserves the right to cancel the registration of a student who does not meet the course prerequisites. A student whose registration is cancelled will be notified by the department via his/her UWF email account.

Directed Independent Study

Students who wish to study or do research under the direction of a faculty member for topics or areas not detailed in regularly scheduled courses may make arrangements for such study as a directed independent study. Credit hours and requirements are determined by the director of the study. Registration requires the approval of the faculty member who will supervise the study and the student’s advisor. In the College of Business, all directed independent studies also require the approval of the appropriate department chair. Directed studies are available for approved subject area prefixes and levels and are designated by the last three digits of the course number. Example: COP 5905.

Non-Degree Students/Graduate Level Courses

Non-degree students may enroll in a 5000-6000 level course. Many advanced courses require that the instructor grant permission to each enrolled student, including non-degree students. Non-degree students have the responsibility to ensure they have the appropriate preparation for the courses and should discuss enrollment with the instructor prior to registration.

Southern Regional Education Board’s (SREB) Electronic Campus

The University of West Florida is a participating member of the SREB’s Electronic Campus, which is a marketplace for courses and programs offered by colleges and universities through electronic methods. Over 200 colleges and universities offer courses through SREB Electronic Campus, enabling students across the South to take courses without leaving their hometowns. All courses are offered by accredited colleges and universities in the Southern Regional Education Board states and exceed the Principles of Good Practice developed by the SREB Electronic Campus. Students may access the SREB Electronic Campus through the Internet at electroniccampus.org (http://electroniccampus.org). SREB Electronic Campus member states are Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

Pass/Fail Grading Option

Graduate students may not elect the pass/fail option.

Audit Grading

Students may choose to audit a course at the time of registration through the end of the drop/add period. Instructors are not required to grade work of students auditing a course. No credit is earned for an audit course. Students may change from the audit to the conventional letter grade system on or before the end of the fourth week of a fall or spring semester (see Academic Calendar (p. 5) for summer semester and short term dates). Students must have the instructor’s permission to change to an audit after the end of the drop/add period. Out-of-State fees are not assessed for audit courses. Out-of-State students changing from audit to the conventional letter grade system will be assessed out-of-state fees.

Drop/Add Changes

Class schedule changes (drop and add) may be processed once a student has initially registered through the end of the scheduled drop/add period. Students may choose to change their class schedules on MyUWF (https://my.uwf.edu). If the drop/add results in an increase in fees, the student must pay the additional fees as assessed by the fee payment due date. Any refunds of fees due to dropping a course prior to the end of the drop/add period will be issued by the Cashier’s Office. Appeals to the drop/add period should be addressed to the Office of the Registrar.

Repeat Course Surcharge

Florida public institutions are required to implement a repeat course surcharge for students who take a state-funded graduate course for the third time. Students taking the same course for the third time at UWF are subject to an increased matriculation fee of 100% of the cost of instruction. Exceptions may be made for individualized study, courses that are repeated as a requirement of a major (i.e. major requires student enroll multiple times), and courses that are intended as continuing over multiple semesters. The repeat of course work more than two times to increase grade point average or meet minimum course grade requirements is subject to the surcharge (see Tuition and Fees (p. 22) section). Appeals should be addressed to the Office of the Registrar.

Withdrawal

Cancellation of Registration

Degree-seeking students will not be able to drop or withdraw from their last remaining course using the online portal; students should contact the Office of the Registrar to drop their final course. Students may cancel registration by notifying the Office of the Registrar in writing prior to the last day of drop/add.

Students may drop individual courses through MyUWF (https://my.uwf.edu) before the end of the drop/add period. Students who cancel their registration or drop courses within this time frame are not
liable for tuition or fees. The University may cancel the registration of a student whose fees are not paid or who has not received authorized deferred payment status as of the close of the fee payment period. Students are responsible for reviewing registration and account information in MyUWF (https://my.uwf.edu).

**Individual Class Withdrawal**

After the drop/add period, a student may withdraw from a course while remaining in other course(s) through approximately the tenth week of instruction of any fall or spring semester*. A grade of “W” will be assigned during this period. Students may process withdrawals online through the "Withdrawal" app in MyUWF (https://my.uwf.edu).

Students are encouraged to consult with their advisor prior to withdrawing from classes and to contact the Office of Financial Aid and the Cashier's Office for questions regarding fee liability or financial aid awards. Students who withdraw are not enrolled in the class as of the date the withdrawal is processed. Enrollment status (i.e., full-time, part-time) will be adjusted based on the date of withdrawal. Withdrawals count as an attempted course for repeat course surcharges and excess hours. Individual class withdrawals may not be processed after the published deadline. Students who do not officially withdraw will be assigned a standard letter grade reflective of the performance in the course. See Late Withdrawal Policy below.

**Withdraw from All Courses (University Withdrawal)**

Degree-seeking students will not be able to withdraw from their last remaining course using the online portal; students should contact the Office of the Registrar to withdraw from their final course. Students withdrawing from all courses prior to the end of the 10th week* of a full semester will receive a grade of “W”. Withdrawals from all courses during the first four weeks receive a partial refund. Withdrawals after the 10th week of a full semester are considered only by appeal.

Withdrawal from all courses does not prevent registration for future terms. Students are not required to apply for readmission unless they have not enrolled at UWF for three or more consecutive academic semesters (including summers). Students are encouraged to consult with their advisors before withdrawing from classes and to contact the Office of Financial Aid and the Cashier’s Office for questions regarding fee liability or financial aid awards. Students who withdraw from all classes are considered not enrolled as of the date the withdrawal is processed. Enrollment status will be adjusted based on the date of withdrawal.

**Medical Withdrawals**

To qualify for a medical withdrawal, the student is required to complete and submit the Medical Withdrawal Form with supporting documentation to the Dean of Students Office (DSO), Building 21/Room 130. Medical documentation is needed from a physician, counselor, or other licensed health care provider and should include: the date(s) of treatment, the nature of the illness/injury, and indicate whether the illness or injury is severe enough to necessitate a withdrawal for the current or prior semester.

The DSO will review the documentation and determine whether the criteria for a medical withdrawal have been met. The student will receive an email notification once the decision has been made. The medical withdrawal process normally takes 10 to 14 working days.

Questions regarding the medical withdrawal process may be directed to the Dean of Students Office or the Office of the Registrar.

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**Withdrawals for Active Duty Military Service**

In the case of a student called to active duty military service or change of orders due to military conflict within the semester, the student must contact the Office of the Registrar and provide a copy of military orders upon receipt of orders. Students will have the option of withdrawing with a complete refund, withdrawal with a grade of “W”, or accepting incomplete grades to allow the student to complete the courses at a later date. Students will be asked to notify the University of the desired option.

The transcripts of students who have contacted the Office of the Registrar as stated above and are subsequently withdrawn, awarded refunds, or given incomplete grades will be annotated with an appropriate statement indicating action taken was due to military active duty service.

**Withdrawal Appeal Policy**

A request for a late withdrawal (individual class or University, past the published deadlines) is considered an appeal for a waiver of a University policy or regulation and must be reviewed by the Academic Appeals Committee. Final authority for waivers of academic University regulations rests with the Academic Appeals Committee. The Office of the Registrar reports the Committee’s decision and has no authority to influence any decision.

Late withdrawals may be approved only for the following reasons (which must be documented):

1. A death in the immediate family
2. Serious illness of an immediate family member
3. A situation deemed similar to categories 1 and 2
4. Withdrawal due to Military Service (Florida Statute 1004.07)
5. National Guard Troops Ordered into Active Service (Florida Statute 250.482)

Students who are requesting a withdrawal appeal must submit the following in order for the appeal to be considered by the Academic Appeals Committee:

- Appeal for a Late Class or University Withdrawal (http://uwf.edu/registrar/latewithdrawal.pdf) form which must include the recommendations (in order) of the advisor, instructor, and department chairperson of the course. If the instructor is no longer at UWF, the department chairperson can sign for the instructor. A separate form is required for each course in the semester for University withdrawals.

- A one-page typed statement fully explaining the reasons for the appeal; the statement should include the course of events in chronological order with dates specified, what prevented your academic success in the course, and why you did not withdraw by the withdrawal deadline.

- Documentation which supports your reasons to appeal:
  - All documentation is subject to verification.
  - Medical documentation should be submitted from a health care provider, psychologist, or counselor on official letterhead. The documentation should include the nature and duration of the illness/personal problems during the semester in question, the dates of services provided, and the provider's signature.
  - Documentation of a death would include a death certificate or obituary stating the relationship of the deceased to the student.
  - Appeals will not be considered without documentation.
Appeals for Fee Refunds

Fee appeals should be addressed to the Cashiers Office in Building 100. Appeals will be considered by the Fee Appeals Committee for documented, extenuating circumstances.

Students may be allowed to withdraw from a course or the University (all courses) with a full refund of tuition and fees for the following situations (documentation required):

1. Call to active military duty or enlistment in active military service (copy of official orders or letter signed by commanding officer on official military letterhead required);
2. Death of the student or death in the immediate family (parent, spouse, child, sibling—copy of obituary notice or death certificate required); or
3. Student’s illness of such duration and severity, as confirmed in writing by a physician, that completion of the term is precluded.

Withdrawal from courses at the University does not automatically relieve the student from fee payment liability in the case of deferred payment status such as VA notes, tuition loan notes, and financial aid pending status.

Students in a deferred status should consult the Cashiers Office regarding fee liability.

*See the Academic Calendar (p. 5) for specific deadlines including summer and short term dates.*

Reinstatement for Canceled Registration

Reinstatement for canceled registrations are not automatic. To be considered for reinstatement after the deletion of courses for non-payment requires approval of the Office of the Registrar. The student must submit an appeal to the Registrar outlining the reason for the request for reinstatement. If the reinstatement is approved, the student must make payment of all registration fees for the identical classes for which registration was previously canceled, the $100 late registration fee, the $100 late payment fee, and payment of all delinquent liabilities. Appeals for reinstatement are submitted to the Office of the Registrar. The Appeal for Reinstatement after Removal for Non-payment form (http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Reinstatement.pdf) is available through the Office of the Registrar (http://uwf.edu/registrar).

Final Examinations

Exams are scheduled during the Final Examination week during the fall and spring semesters. It is the student’s responsibility to review the final exam schedule and know when/where the exam will occur.

Final exams for summer are scheduled by the instructor.

Final examinations may be scheduled on Saturday. It is the student’s responsibility to review the final exam schedule and know when/where the exam will occur (see the Academic Dates and Deadlines (p. 5)). The final exam schedule can be found here (https://confluence.uwf.edu/pages/viewpage.action?pageId=12323029).

State Employee Tuition Fee Waiver

State of Florida employees classified as permanent full-time employees may be allowed to register on a space-available basis at the University for a maximum of six semester hours of tuition-free courses per semester. State of Florida employees include employees of the executive, legislative, and judicial branches of state government.

Persons employed by state universities, community colleges or school districts are not eligible for a State Employee Tuition Fee Waiver.

Effective Fall 2013, the following fees, where assessed, will not be covered by the state employee waiver:

- Online Fee
- Transportation Access Fee
- Material & Supply Fee
- Equipment Fee
- Lab Fee

See tuition and fees (http://catalog.uwf.edu/graduate/tuitionandfees) for specific amounts. Students will be responsible for the payment of these fees by the designated fee payment date.

Admission, readmission, and registration information may be obtained by contacting either the Graduate School or the Office of the Registrar. Students using the state employee fee waiver may register beginning the first day of classes (drop/add period). Late registration fees will be waived by the Office of the Registrar when the waiver form is submitted. Since registration is on a space available basis, waivers will not be applied to any course for which the student is registered prior to the first day of classes. Permission to enter a closed class is not permitted for state employee registrations. State employees attending the Pensacola campus are required to purchase a Nautilus Card and parking decal. Waivers may not be used for the following types of courses:

- Directed independent studies
- Internships
- Theses
- Dissertations
- Practicums
- Music & theatre performance courses
- Non-credit (audit) courses
- Continuing education courses
- Sponsored credit courses
- Non-fundable courses
- Any one-on-one course situations

State employee waiver forms must be submitted to the Office of the Registrar no later than the close of the drop/add period. It is the responsibility of the employee to ensure that the waiver form includes the appropriate courses for which a student is registered. When necessary, the student must contact the employing agency for a corrected or a supplemental waiver form for courses not included on the original waiver form. It is suggested that alternate courses be included on the original waiver form in case an employee may not be able to register for one or more requested courses. The waiver form will not be processed if a state employee pre-registers and then submits a waiver form for a pre-registered course(s) after the fact. Specific details and forms are available at http://uwf.edu/offices/registrar/tuition-fee-waivers/state-employee-tuition-waiver/.

Senior Citizen Tuition Fee Waiver

U.S. citizens, permanent resident aliens, or legal aliens granted indefinite stay by INS, who are 60 years old or older, and who meet the Florida residency for tuition purposes may enroll in courses under the State of Florida’s Senior Citizen Tuition Fee Waiver program. A Florida “resident for tuition purposes” is a person who has established and maintained legal residency in Florida for the previous twelve-month period. Courses taken by senior citizens under the Senior Citizen Tuition Fee Waiver are on an audit basis. No academic credit shall be
awarded for attendance in classes for which fees are waived. Waiver of fees is not authorized for the following kinds of courses:

- Directed independent studies
- Internships
- Theses
- Dissertations
- Practicums
- Music & theatre performance courses
- Non-credit (audit) courses
- Continuing education courses
- Sponsored credit courses
- Non-fundable courses
- Any one-on-one course situations

The free course benefit may be used on a space available basis only. Students may not pre-register for courses for which they plan to use a Senior Citizen Tuition Fee Waiver. The waiver form will not be processed if a senior citizen pre-registers and then submits a Senior Citizen Tuition Fee Waiver Form for the pre-registered course(s) after the fact. Students attending classes on the Pensacola campus must purchase a Nautilus Card and parking decal. Students should contact the Office of the Registrar or visit http://uwf.edu/offices/registrar/tuition-fee-waivers/senior-citizen-tuition-waiver/ for detailed information.

International Student Exchange Programs

Students may participate in a variety of international learning experiences. Information about international exchange programs is available through the Office of Diversity and International Education and Programs. Further information is available at uwf.edu/intered/.

Grades and Academic Credit Policies

Grading Policies

Grading System

Grades will be reported in the following manner:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Outstanding</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>Outstanding</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>Above average</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>Above average</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>Above average</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>Average</td>
<td>2.3</td>
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<tr>
<td>C</td>
<td>Average</td>
<td>2.0</td>
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<tr>
<td>C-</td>
<td>Average</td>
<td>1.7</td>
</tr>
<tr>
<td>D+</td>
<td>Below average</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>Below average</td>
<td>1.0</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.0</td>
</tr>
<tr>
<td>G</td>
<td>Deferred (Thesis/Dissertation only)</td>
<td>**</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>**</td>
</tr>
<tr>
<td>I*</td>
<td>Grade Not Reported</td>
<td>**</td>
</tr>
<tr>
<td>NF</td>
<td>Non-attending/Fail</td>
<td>0.0</td>
</tr>
</tbody>
</table>

** Grade not included when computing the GPA.

Student teaching, practica, thesis and dissertation credit, and special courses are graded as satisfactory or unsatisfactory ("S" or "U"). Other courses at the undergraduate level may be taken under a pass or fail ("P" or "F") option.

In computation of the required grade point average (GPA) for retention and conferral of a degree, the total number of quality points (grade points times course semester hours) is divided by the total number of semester hours for which letter grades are received (see the Grading System for grade points). All regulations tied to a specific grade average should be interpreted to mean the numerical average associated with that specific grade. Hence, the required “B average or better” is interpreted as “3.0 average or better.”

Course work completed in any student classification (including non-degree) will be included in the undergraduate or graduate GPA as determined by the level of the course.

Audit Grading

Refer to Audit Grading (p. 37) in the Registration Policies and Procedures section of this Catalog.

Pass/Fail Grading Option

Refer to Pass/Fail Grading Option (p. 37) in the Registration Policies and Procedures section of this Catalog.

Access to Grades

Currently, enrolled students may access their grades via MyUWF (https://my.uwf.edu) after grades are due (see Academic Calendar).

Grade Changes

Students graduating from UWF having earned a letter grade of “F, D, D+, C-, C, C+, B-, B+, A-, or A” may not have a grade changed for a course which was taken and completed prior to graduation.

Grades of Incomplete

An incomplete ("I") grade signifies that all course requirements have not been met. If circumstances exist beyond the control of the student, as determined by the instructor, the following applies:

- The instructor may assign a grade of "I," provided the student has satisfactorily completed at least 70 percent of the course requirements and the student has a grade of at least C– or S (satisfactory) in coursework up to that point in time. Students who receive an involuntary call to active military duty should consult with their instructors.
- The "I" becomes an "F" at the end of the next regular semester (summer excluded) unless the grade is changed by the instructor to a letter grade “A-F.” The student is responsible for contacting the department for a grade change or extension prior to the end of the last instructional day of that semester. Instructors may approve extensions only for extenuating circumstances and only for a maximum of 12 months.
• Students receiving grades of incomplete should NOT re-register for courses in which an "I" has been assigned.
• When assigning an incomplete grade "I", instructors should complete a “Report on Assignment of Incomplete Grade.” This will assist students in understanding the requirements for completing a course, and it will provide necessary information in the event the instructor is not available to monitor the completion of the requirements.
• An “I” grade will be converted to a “F” grade upon graduation if no other grade is submitted. Students may not graduate with an outstanding “I” grade.
• Graduated students having an "I," which was converted to an automatic "F" or other incomplete grade for a course may have the grade changed to a letter grade within one year after receiving a degree. To change the grade, the student must complete the required work and the course instructor must submit the appropriate grade change form via the chairperson and the dean. The student’s transcript will be annotated to show that the course requirements were completed after graduation.

Grade Appeal

Students should consult the Student Handbook and Planner for information regarding the grade appeal process. Grade appeals for courses cross-listed with another department within another college will be heard through the college housing the department, regardless of the departmental affiliation of the faculty member teaching the course.

Repeated Courses

A student may receive credit for a course only once regardless of how many times it is taken in transfer or at UWF. All attempts at UWF count in the GPA. The most recent attempt (regardless of grade) of the course counts toward meeting degree requirements.

Transcripts

Official transcripts may be ordered via the web or telephone with Credentials Solutions, Inc. There is a $10 fee for each official transcript and additional fees may apply for special services. Students may obtain an unofficial transcript at no charge through MyUWF (https://my.uwf.edu). Refer to Transcripts (http://uwf.edu/offices/registrar/grades-and-transcripts/transcripts) on Registrar website for additional information and instructions for ordering a transcript. UWF transcripts include all course work taken at UWF, degrees awarded, and accepted transfer credit (institutions, courses, and grades). UWF transcripts only list UWF’s grade point averages.

Students may also elect to suppress specific information that is normally reflected on the academic transcript. Beginning in fall 1993, the University began listing all transfer courses on the UWF transcript. Students may elect to suppress their date of birth, transfer work, or a combination of both from appearing on the UWF transcript. The student must indicate this “option” at the time a transcript is requested. Summary information (the number of hours transferred) will remain on all the transcripts. Each time students request transcripts they must indicate on the request the information which should be suppressed. The following statement will appear at the end of the transcript for students who select the option of suppressing transfer credit: “This student has requested that this transcript includes only course work taken at UWF.” Options for suppression of information are available only for hard copy transcripts and are not available for electronic (FASTER formatted) transcripts used in the State of Florida.

Academic Credit Policies

Academic Credit

Academic credit toward the degree shall not be given for courses which are designed to fulfill prerequisites for admission.

Directed Studies

A master’s program may include up to two courses with a maximum total of six semester hours of directed studies. Directed studies must be at the 5000-6000 level.

Nontraditional Credit - Credit by Proficiency

At the request of a department and with the approval of the college dean and Graduate School Dean, a graduate student may be permitted to take six semester hours or two courses (whichever is greater in credit) of graduate-level credit by proficiency. No fees will be assessed. The department will identify an appropriate method to assess the student’s proficiency related to the course learning outcomes. The grade for the credit by proficiency will be submitted to the Office of the Registrar. Grades will be recorded and UWF’s grading system and policies will be applied.

A graduate student who previously attempted a course or is currently enrolled in a course may not use the credit by proficiency option for that course. Students may attempt to earn credit by proficiency in a specific course only once, regardless of whether they pass or fail.

Non-degree graduate students who possess a bachelor’s degree or higher, who are participating in an approved teacher education program, and who demonstrate significant teaching experience, may take one or two courses amounting to no more than nine semester hours of their course work through the credit by proficiency option. Students must be enrolled at UWF at the time the proficiency is assessed and credit is given.

Undergraduate students are not eligible to request graduate-level credit by proficiency.

Graduation and General Degree Requirements

Master’s Degree Requirements

Requirements for a master’s degree from UWF are listed below. The colleges and departments may have requirements which exceed these minimums. Please consult the individual departments and the individual program descriptions in this Catalog for details. Minimum requirements are the following:

• Students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
• Completion of minimum 30 semester hours in an approved program;
• Completion of minimum 15 semester hours of coursework at the 6000 level or above;
• Completion of minimum 24 semester hours of credit at UWF. The department offering the program may require additional residency;
• Graduate GPA of a minimum of 3.0, refer to GPA Requirement (p. 32) for more information;
• Complete degree requirements within six years from the date the UWF degree is awarded, refer to the Time to Degree (p. 34) requirement for more information;
• A degree will not be awarded for a student on academic probation or suspension;
• A maximum of 6 semester hours of credit may be applied toward a master's degree for successful completion of a thesis (p. 34);
• Master's students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

Requirements for Second UWF Master's Degree
Requirements listed below are applicable for students who already hold a master's degree from UWF or who are pursuing two masters' degrees simultaneously. Students who have earned a master's degree from another institution must meet the requirements listed under Master's Degree Requirements.
• Master's students may be candidates for two master's degrees at UWF. Candidacy in two separate master's programs may be held in overlapping time periods. Candidates must meet the conditions of graduate status stipulated by both departments;
• Since a master's degree represents a level of attainment, some (or all) courses included in one graduate program may be used by another department to satisfy the formal requirements for a second graduate degree. A minimum of 18 semester hours must be taken for the second graduate degree which were not a part of the first degree;
• A degree will not be awarded for a student on academic probation or suspension;
• Master's students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
• Master's students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

A second master's degree may not be earned in the same program area.

Specialist Degree Requirements
To be eligible for an Ed.S. degree, students must meet the following requirements:
• Specialist students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
• Submit an approved degree plan which includes at least 36 semester hours;
• Completion of minimum 9 semester hours of coursework at the 7000 level in the Curriculum and Instruction Specialist program. The remainder will be at the 5000-6000 level except when specific waivers have been obtained;
• Completion of minimum 30 semester hours of credit at UWF. The department offering the program may require additional residency;
• No more than 10 semester hours may be transferred from another institution that were earned within five years of the date of admission to the specialist program;
• Specialist GPA of a minimum of 3.0;
• Complete degree requirements within seven years from the date of admission;
• Be recommended for graduation by the departmental chairperson;
• A degree will not be awarded for a student on academic probation or suspension;
• Specialist students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students should contact their program of study advisor to determine the minimum hours and courses in which to enroll. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

Requirements for Second UWF Specialist Degree
Requirements listed below are applicable for students who already hold a specialist degree from UWF or who are pursuing two specialist degrees simultaneously. Students who have earned a specialist degree from another institution must meet the requirements listed under Specialist Degree Requirements.
• Specialist students may be candidates for two specialist degrees at UWF;
• Candidacy in two separate specialist programs may be held in overlapping time periods;
• Candidates must meet the conditions of graduate status stipulated by both departments;
• The professional core, made up of 15 semester hours, included in one specialist program may be used to satisfy the professional core requirements for a second specialist degree. The minimum course requirements of the desired specialization must be completed for the second specialist degree, which were not a part of the first degree;
• A degree will not be awarded for a student on academic probation or suspension;
• Specialist students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
• Specialist students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

A second specialist degree may not be earned in the same program area.

Doctor of Education Degree Requirements
For detailed information, refer to the Policies and Procedures available on the Ed.D. Program web page. To be eligible for an Ed.D. degree, a student must meet the following requirements:
• Students must be admitted to the program by the Ed.D. Program Committee and Dean and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
• Complete an approved degree plan with a minimum number of hours as identified in the program of study. No more than 10 semester hours may be transferred from another institution that were earned within five years of the date of admission to the UWF Ed.D. Program;
• Complete the residency requirement: Students establish residency when they enroll in at least 24 semester hours in two consecutive academic years (includes summer sessions). The Ed.D. program director monitors and verifies student compliance with the provisions of this requirement;
• Students must successfully complete an APA seminar during their first or second semester in the program;
• Complete the Preliminary Examination during the specified time frame;
• Complete all requirements to advance to candidacy;
• Have maintained a minimum cumulative program GPA of 3.25 with no grades lower than a B- in course work counted toward the degree. Specialization areas may have additional requirements regarding acceptable letter grades for major courses that are counted in the degree program;
• Successfully complete and orally defend a dissertation;
• Be recommended for graduation by the doctoral committee, departmental chairperson, and the Ed.D. Program Office;
• Complete degree requirements within seven years after the date of admission;
• A degree will not be awarded for a student on academic probation or suspension;
• Doctoral students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students should contact their program of study advisor to determine the minimum hours and courses in which to enroll. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

Dissertation Course Registration Requirements and Grading

Dissertations are to be prepared in accordance with the specifications given in the “Thesis and Dissertation Guide” prepared by and available in the Graduate School. All dissertations must be produced in electronic format (unless a hard copy is required by the individual department). Deadlines for submission to the Graduate School are posted online at uwf.edu/graduate.

Doctoral candidates are required to register for a minimum of 18 semester hours of dissertation course work. Candidates must register for a minimum of 3, but not more than 6, semester hours each semester (including summer terms) until they have registered for a cumulative total of 18 semester hours of doctoral dissertation course work. Thereafter, candidates are required to register for a minimum of 2 semester hours of dissertation course work each consecutive semester (including summer) until the student has completed 24 semester hours of dissertation work. A maximum of 24 semester hours of dissertation credit may be applied toward a doctoral degree for successful completion of a dissertation. Upon completion of 24 semester hours of dissertation credit, the student will be reevaluated by the doctoral committee chair and committee to determine if the student can complete the dissertation. If the doctoral committee determines that the student can complete the dissertation, the student will be required to register for 3 semester hours of dissertation coursework each semester until the doctoral committee approves the dissertation. Once the doctoral committee has approved the dissertation, the candidate must continue to register for 1 credit hour per semester until the dissertation is approved by the Graduate School and submitted to the library.

Candidates shall maintain active candidacy status in accordance with the above stated criteria. Those who fail to maintain active status during the dissertation process will have their status reviewed by the director of the Ed.D. program. Failure to register for the appropriate dissertation coursework for 3 consecutive semesters will result in the candidate having to reapply to the program, subject to the policies and procedures in effect at that time. Students who do not maintain continuous registration after the dissertation has been approved by the dissertation committee will be charged for 1 semester hour of dissertation credit per semester for each semester during the time they were not continuously registered.

Application for Graduation

Students fulfilling requirements for a UWF master’s or specialist degree must submit an “Application for Graduation” online by the application deadline stated in the Academic Calendar (p. 5). Doctoral students apply for graduation the semester prior to the dissertation defense and must apply through the graduate department in the Ed.D. Program Office. Graduation application forms are available on the Office of the Registrar website (http://uwf.edu/registrar). Retroactive graduation to a prior semester will not be approved.

Commencement

Commencement ceremonies at UWF are held twice a year, fall and spring, for students graduating with a Baccalaureate, Master’s, Specialist, or Doctorate degree. Doctoral students must be approved by the Graduate School prior to participating in the commencement ceremony.

Those master’s students who plan to graduate in the summer should apply for summer graduation only. Prospective summer graduates have the option to participate in either the preceding spring or following fall ceremony. Doctoral students intending to graduate in the summer may not participate in the spring ceremony unless the dissertation has been fully approved and participation is approved by the Dean of the Graduate School. “Applications for Graduation” should be submitted by the date stated in the Academic Calendar (p. 5). Students will receive information about graduation through their student e-mail accounts. Commencement information is also available on the web at uwf.edu/ commencement. UWF does not have a graduation honors program for master’s, specialist, and doctoral students.

Degree Audit System

Prior Fall 2014, the Student Academic Support System (SASS) was UWF’s degree audit system. Beginning in Fall 2014, Degree Works will identify and track all graduation requirements for each degree at the University. Students may check their individual progress toward degree completion by reviewing their degree audit, which is available in MyUWF (https://my.uwf.edu). The degree audit is used for the final graduation check and a completed audit is required before a degree is awarded.

Posthumous Graduate Degree

To be considered for a posthumous degree, graduate students shall have successfully completed at least eighty percent of the chosen UWF degree program, have been in good standing at UWF, and have met UWF degree residency requirements. In exceptional circumstances the Dean of the Graduate School may make exceptions
to these requirements. The student’s academic department must initiate the request for a posthumous degree through the College Dean, Dean of the Graduate School, and the Provost’s Office.

**Substitution of Graduation Requirements for Students with Disabilities**

Refer to Substitution of Graduation Requirements for Students with Disabilities (p. 35) in the General Policies section of this *Catalog*. 
Online Campus

The Academic Technology Center is responsible for UWF’s Online Campus (OLC). The OLC supports all fully online, blended, and web-conferencing degree and certificate programs. The OLC website (onlinecampus.uwf.edu) provides one-stop shopping for distance learning students to assist in planning online degrees, certificates, and educational experiences. Students may access the website for advisement, admissions procedures, registration, information about taking online classes, and graduation. The Online Campus provides many helpful tips and links to the same quality services and student support available on our University of West Florida campuses. Students participating in the Online Campus will have access to advisors, military education coordinators, and others to assist the online learner’s overall educational experience.

Online Campus Programs

Approximately 30 degree and certificate programs are offered through the UWF Online Campus. Admittance to any of our online degree or online certificate programs provides the opportunity to apply for an out-of-state tuition waiver that reduces out-of-state tuition substantially (See out-of-state tuition waiver information below). Students enrolling in these programs will experience interactive, personalized strategies for course delivery as well as access to the Online Campus staff that stand ready to provide information to online students. Programs currently offered through the Online Campus can be found at: onlinecampus.uwf.edu and in the Catalog.

Out-of-State Tuition Waivers

Waivers to cover all or part of the out-of-state portion of assessed tuition may be available for qualified students admitted to specific online degree and online certificate programs. Students admitted to programs and certificates listed under Eligible Programs on the Online Campus website (onlinecampus.uwf.edu/affordable waivers.cfm) and are 1) a non-Florida resident and 2) enrolled in Online Campus (OLC) coded) courses may be eligible for the waiver.

Non-Resident members of the U.S. Armed Services on active duty stationed in Florida and their spouses and dependent children do not require waivers because they are granted Temporary Florida Residency.

Students enrolled through the SREB Academic Common Market are not eligible for the out-of-state tuition waiver. In some instances, the University may apply third party payments prior to applying waivers.

Notes:

- Renewal of waivers is NOT automatic.
- Students must apply for a distance learning tuition waiver each semester by completing the “Tuition Waiver” form located on the UWF Online Campus website (secure.uwf.edu/ufonline/ Affordable/waiverForm.cfm).
- Students must pay all other assessed tuition and fees.
- Students withdrawing from a course or from the University are liable for fee payment as established by standard University policy. Students will not be liable for the amount covered by out-of-state tuition waivers awarded.

Online Campus Fee

An online campus fee will be assessed each semester to students participating in fully online courses and mobile device delivered courses. This fee covers the cost of supporting and improving Online Campus offerings and services.

Online Campus Student Support

The Online Campus provides general support services and linkages to all campus-wide support services that may be required by a distance learning student. The Online Campus can serve as the primary point of contact for fully online student needs. OLC staff can be reached via email at online@uwf.edu, toll free at 1-888-529-1823, or locally at (850) 473-7209. Students requiring more specialized support services will be transferred internally to the appropriate point of contact.

Military Education Advising

Military students seeking distance learning certificate and degree programs may obtain assistance with overall program planning aligning to SOC criteria along with the military students’ transcripts, including school house training aligned to ACE criteria, other institutional credits, etc. Military students seeking distance learning programs and certificates can contact the Online Campus for assistance. Contact the Military Education Advisor via email at militaryadvisor@uwf.edu.

Frequently Used Services

The following services may also be needed by the distance student:

Help Desk

The ITS Help Desk is available to provide technical support to the online learning student. Contact the Help Desk directly for technical questions by calling (850) 474-2075 or emailing helpdesk@uwf.edu.

UWF Library

The University of West Florida Libraries offer an array of services, including access to the catalog and numerous online databases. Many of these databases include full-text journal articles or information. To access library services and databases, you must be a currently enrolled UWF student and have a UWF ID. To learn more about how the library can assist you, visit the library website (library.uwf.edu) and select the ONLINE LEARNERS LIBRARY GUIDE Quick Link. You may also contact the Library Information Help Desk at (850) 474-2424.

Student Responsibility

The success of online learning relies heavily on the commitment of the student to participate fully in class assignments, discussions, and in supporting class members while building an online learning community. Each semester students should expect to receive an e-mail confirmation of their Online Learning course registration as well as providing details on how to learn online. The Online Campus website provides links to the UWF Bookstore as well as to all of the support services required for the student experience. Students should enter their online course(s) through the MyUWF (https://my.uwf.edu) portal. Students are expected to have a UWF e-mail account that must be checked at least three times a week to be an active participant in online courses. Students having difficulty should contact the Online Campus for guidance online@uwf.edu or 1-888-529-1823.
Public Service and Research Centers

The University of West Florida faculty and students at the graduate and undergraduate levels actively engage in public service and research. The Office of Research and Sponsored Programs supports this engagement by facilitating the growth, development, and quality of basic and applied sponsored research. The office also includes a Technology Transfer program which assists with the commercialization of emerging research. Although faculty conduct unfunded research in a wide variety of areas appropriate to their discipline, the majority of funded research is conducted by the University’s research centers and institutes. A list of centers and institutes is located on the Office of Research and Sponsored Programs website at research.uwf.edu/institutes.cfm.

For additional information, contact the Office of Research and Sponsored Programs at (850) 474-2824.
Student Involvement

The University offers many diverse opportunities for participation in extracurricular activities and encourages the development of student interest groups and activities. The University Commons and Student Involvement Department (UCSI) coordinates all Campus Activity Board events, Homecoming activities, Argo Arrival (welcome week) events, student organization events including fraternity and sorority recruitment, and an emerging leadership and community service programs. The department maintains a complete schedule of activities and is responsible for general management of the University Commons.

Involvement in extracurricular activities is a vital part of student life at the University of West Florida. The University officially recognizes over 160 registered student organizations that extend learning from the classroom into real-life situations as students learn to work in teams with diverse membership, plan events, develop budgets, promote activities, and have fun. Several organizations prepare teams and projects to participate in regional and national competitions in their fields of interest. Students may also start their own organization or student interest group by contacting the Student Involvement Office. UCSI maintains an online service called ArgoPulse (http://uwf.edu/argopulse/index.cfm) that provides links to opportunities for student involvement.

The University also offers extracurricular activities in recreation, music, theatre, forensics, and various other organizations. In addition, there are many activities and events in which students may participate, assist, or organize. Please refer to the UCSI website at uwf.edu/ucommons/ for details and contact information.

Intercollegiate Athletics

The intercollegiate athletic program comprises competitive teams in fourteen sports: men’s teams in baseball, basketball, cross country, golf, soccer, and tennis; and women’s teams in basketball, cross country, golf, soccer, softball, swimming & diving, tennis, and volleyball. Additional information may be found at GoArgos.com (http://GoArgos.com).

The Argonauts compete in the National Collegiate Athletic Association (NCAA) Division II and the Gulf South Conference (GSC). Championship playoff opportunities are provided in each sport. Each team plays a full schedule of competition with schools throughout the southeastern United States. The Argonauts have won 79 total GSC championships, including a record 8 conference championships in the 2013-14 season. The Argonauts have won seven national championships.

The University sports facilities include a field house (1,180 capacity), twelve lighted tennis courts, a lighted baseball stadium (2,500 capacity), a lighted softball stadium (800 capacity), and a lighted track which encircles the varsity soccer field (500 capacity). The Aquatic Center has an Olympic-size, heated swimming pool, with two 1M and one 3M spring boards.
Student Services and Resources

ArgoAlert – Emergency Notification System

ArgoAlert is UWF’s way of notifying students, faculty, and staff in case of an emergency. In the event of an emergency at the University of West Florida, a combination of methods would be used to communicate with the campus community. Methods utilized are dependent on the situation. Additional information is available at uwf.emergency.org/notification.cfm (http://uwf.edu/ermgt).

- Campus-wide email
- Emergency web site
- Fire Bell/Strobe Light
- Siren/Loud Speaker System
- Internal Building Speaker System
- Verbal Messages
- WUWF 88.1 FM
- WUWF-TV

Text Messages (SMS) and Instant Messages (IM) – All students, faculty, and staff can sign-up to receive text messages (SMS) to their text messaging enabled mobile device. Standard text messaging rates from the subscriber’s mobile carrier will apply. Individuals should follow the instructions in the message.

Bookstore

UWF Bookstore – The Official University Bookstore

In addition to stocking new, used, and rental texts and educational supplies, the bookstore offers a substantial selection of general books, best sellers, study aids, computers, discounted computer software, art supplies, emblematic gifts and clothing, class rings, graduation announcements, residence hall supplies, personal and food items, and other necessities. The bookstore offers many additional services including special orders for books, graduation apparel rentals, and year-round book buy-back. The bookstore accepts all major credit cards, the Nautilus Card, cash, and personal checks. For more information, visit the website at uwf bkstr.com (http://uwf bkstr.com).

BookNow

BookNow is a service which connects UWF’s online registration system to the Bookstore, allowing students to purchase textbooks online immediately after registering for classes. If you choose to buy books, you will be directed into the bookstore’s system and provided with a pre-populated list of required and recommended course materials based on your class schedule. You then can decide which books you wish to purchase, whether to purchase new or used, or to rent books. Purchases may be picked up at the bookstore or shipped to you.

Rental Books

When a student rents their books, they pay, on average, less than half the new book price. A “For Rent” sign will be located beside the book in the store. Rental books must be returned before the end of the term and an online registration form completed before the student can rent again the next term.

Bookstore Deferment Program

If a student plans to use their financial aid award to help pay for their books, the UWF Bookstore has a “Deferment Program” that will allow them to purchase their books before their aid is disbursed. Deferment is an estimated amount of excess financial aid funds based on how much is left over after tuition and fees are paid. The best way to find out if there is excess money, and how much, is to access MyUWF and search for “Account Balance Fees.” If a student has excess funds, they can spend up to $600 at the UWF Bookstore. The Bookstore will have a record of the amount that is available and will ask the student to sign a receipt giving them permission to be reimbursed when their financial aid is disbursed.

Career Services

Career Services at the University of West Florida is the dedicated team providing comprehensive support for students and alumni to explore and pursue a wide variety of career opportunities. The department is focused on helping students acquire the tools necessary to decide on a major, gain experience and refine the tools necessary for life after graduation. In the career planning area, career coaches work with students regarding choosing or changing a major and with the career decision-making process. Career Services staff members assist students with developmental job-search skills such as resume and cover letter writing, interviewing, job search strategies, and evaluating a job offer. Students and alumni can set up one-on-one appointments or attend “drop-in hours” to get answers to quick career-related questions.

Career Services helps students seek ever-important Experiential Learning programs through participating in Cooperative Education (CoOp), interning or volunteering. Individual and group volunteer service programs through local, non-profit organizations add employability value while positively impacting the local community. Current students who register 20 or more service hours in a semester with Career Services will have their hours recorded on their transcript.

Career Services also focuses on making Employer Connections. Employers are invited to interact and network with UWF students and alumni on campus through Career Fairs and Expos, Meet and Greets, and Interview Sessions. Hundreds of employers continually promote their full-time, part-time, internship, CoOp, and volunteer opportunities on JasonQuest, a free job posting and networking database accessible to UWF students. JasonQuest is accessed through a student’s MyUWF account. For more information, visit the Career Services website at uwf.edu/offices/career-services/ or stop by Building 19, North foyer, during regular office hours, 8 a.m. to 5 p.m. Monday – Friday.

Cooperative Education

Cooperative Education (CoOp) allows students to gain professionally relevant work experiences that complement their academic studies. Through alternating or paralleling models of study and paid work experience in their intended fields, students in the Cooperative Education Program have an opportunity to professionally explore and apply principles acquired in the classroom. Cooperative Education is always paid, always for credit, and always a multiple semester experience. Cooperative Education is a partnership among employers, students, and the University focused on professional practice and vocational exploration. Vocational exploration confirms academic and career objectives, enhances the development of self-confidence, and develops professional skills in human relations. Courses assume
greater meaning, employment options increase, and educational expenses are partially offset. The student may join an employer in industry, government, or social agencies.

Comprehensive guidelines govern the program. Students enter the program by attending a Cooperative Education Information Session offered through Career Services. Students must then receive departmental recommendation for the program. Once a student has faculty approval and has successfully created an effective resume, he or she can begin to apply and interview for CoOp positions. Upon accepting a CoOp position students will register in the Cooperative Education Program.

Students must have an established UWF GPA to participate in the Cooperative Education program. Undergraduate students must maintain a UWF GPA of at least 2.3. The program is also available at the graduate degree level. To start the program graduate students must have completed at least one semester of graduate study at UWF. Graduate students must maintain a UWF GPA of at least 3.0. Students will participate in either the Alternating CoOp or the Parallel CoOp model. In an Alternating CoOp, students must work at least two full-time semester long assignments. The Alternating Model is separated by a semester of full-time enrollment in courses. While Alternating students are on CoOp assignment they will work 40 hours per week. Alternating CoOps do not enroll in other courses while on assignment. They do not work in their CoOp positions during their coursework semesters.

Parallel CoOp students will work approximately 15-25 hours per week for three consecutive semesters. Undergraduate Parallel CoOp students will enroll in 9-12 credit hours each semester (Fall or Spring), and 6-9 credit hours during the summer. Graduate Parallel CoOp students will enroll in 6-9 credit hours each semester (Fall or Spring), and 3-6 credit hours during the summer. Students must continue to make progress in their courses while participating in the Parallel CoOp Program. Academic consideration may be given for special employer requests requiring back-to-back rotations (Summer/Fall, Spring/Summer). Students that are submitted to employers as CoOp candidates, and accept Cooperative Education positions, are expected to follow program guidelines. A minimum of two alternating or three parallel work terms is required to satisfactorily complete the CoOp Program. Each work term Cooperative Education students enroll in a Cooperative Education credit hour through Career Services. CoOp students are paid by the employers. Students enrolled in a cooperative education course are considered full time for the purpose of enrollment verification regardless of the number of credit hours of the course.

Child Care

Child care is available through the Educational Research Center for Child Development on a fee basis for children of students, faculty, staff, and alumni. Regular enrollment is open to children who are six months old through kindergarten age. The ERCCD is accredited and a site for the Florida VPK program. An after school program for ages 6 through 10 is available. The Center also has a summer only School Age Camp that accepts children through age 10. No transportation is provided. While students are given priority in placement, prospective students are urged to make application for child care as early as possible. The center is staffed by professionals in the field of education and provides a broad range of learning experiences for each child and opportunities for research, internships, and supervised teaching experiences for University students. Visit the website at uwf.edu/childdev.

Copy Services

Most copiers on campus are equipped with Nautilus Card readers. Money may be added to a Nautilus Card at any Automatic Deposit Machine (ADM) or at the Cashier's Office in Building 20E. Copies made with a personal Nautilus Card cost 8 cents. 11”x17” copies count as two copies. Student copiers are located in the Pace Library, Professional Studies Library, Commons Cyberlab, and the Science and Engineering Building. There is a color copier available for student use on the first floor of the Pace Library and it will copy sizes up to 11”x17”. All copies have a scan function. Documents may be printed from a USB (tif, jpg only) or saved to a USB (tif, jpg, or PDF). For additional information, call the Auxiliary Services’ Office at (850) 474-3012 or visit uwf.edu/copyervc/internal/students.cfm (http://uwf.edu/copyervc/internal/students.cfm).

Counseling and Wellness

Counseling and Wellness Services has two areas: Counseling Services and Wellness Services, both located in Building 960. These areas work collaboratively to create a culture at UWF in which students value and nurture both physical and mental health. Each area also works independently, providing unique contributions to the UWF campus community.

Counseling Services provides confidential personal, vocational, and couples counseling to students free of charge. Psychologists and counselors help students with problems including depression, test anxiety, vocational indecision, relationship difficulties, sexual concerns, interpersonal conflict, identity confusion, substance abuse, stress management or other personal difficulties which may impede a student’s academic progress. We have a thriving groups program including personal growth groups, therapy groups and support groups.

Wellness Services is the focal point on campus for student health education. Wellness staff members provide workshops, awareness events, health marketing campaigns, and other educational programming in the areas of alcohol and other drug misuse/abuse prevention, STI/HIV prevention and sexual health promotion, and sexual assault prevention and risk reduction. These services are initiated campus-wide and are offered to student groups, organizations, residence halls, and classes. Wellness Services also works with the UWF Peer Educators to promote student driven health efforts on campus.

Dining Services

Dining Services locations on campus are as follows:

University Commons: Nautilus Market (All-You-Care-to-Eat and Meal Plan dining facility), Argo Galley, Quiznos’ Sub, and Chick-N-Grill

Pace Library: “We Proudly Serve” Starbucks

HLES Facility: Terra Juice

College of Professional Studies Building: Sub Generation

Science and Engineering Building: Outtakes

College of Business Building: Outtakes

Presidents Hall: Papa Johns Pizza/Outtakes

Outdoor Cafe: Bistro Blue food truck
All dining locations accept cash, credit cards, and the Nautilus Card. Meal plans may only be used in the Nautilus Market. First-time-in-college students living in University housing are required to participate in the mandatory meal plan their first two semesters on campus (summer residence not included). Mandatory participants will automatically receive the 12 Meal Plan (the default), but may choose to upgrade to the 15 meal plan. Savings on meal costs are available to resident and nonresident students with Meal Plans. There are many meal and block plans from which to choose. Catering services for special functions are also available. Detailed information about campus dining may be obtained from the UWF Dining Services’ Office or by visiting dineoncampus.com/uwf (http://www.dineoncampus.com/uwf) and on Facebook at facebook.com/UWFDining (http://www.facebook.com/UWFDining).

**Disability Services for Students**

The Student Disability Resource Center provides assistance for eligible students with disabilities by ensuring that appropriate academic accommodations are made. Accommodations vary by individual and may include interpretive services, testing accommodations, assistive technology, and note taking assistance. Appropriate academic accommodations will be determined based on the documented needs of the individual. For more information, please contact the Student Disability Resource Center, Building 19, (850) 474-2387 (V/TDD: (850)857-6107), or uwf.edu/sdrc.

**Emergency Management**

The Office of Emergency Management (OEM) at the University of West Florida is responsible for ensuring the campus is prepared for crisis situations, whether they are due to natural or man-made causes that could negatively affect the health and safety of the campus community. More information is available at uwf.edu/ermgt/index.cfm.

**Escort Service**

The Campus Escort Service is available to ensure the safety of all University students, personnel, and visitors upon request. The service is provided between car and building or building to building, day and night, year round. Qualified, supervised student personnel provide the escort service Monday through Friday while the University is in session, from 8 a.m. to midnight. During all other times, the University Police will provide escort service on an as-available basis. The service can be requested by calling (850) 474-2415 or from any blue light pole on campus.

**Health Services**

Student Health Services, located in Building 960, provides primary care for all currently enrolled students. While the cost to see a provider is covered by the student health fee, there are nominal charges for labs, immunizations, and certain exams, procedures, and treatments. Students are seen by appointment only. The clinic is open Monday, Wednesday, and Friday from 8 a.m. - 5 p.m. and Tuesday and Thursday from 9 a.m. - 5 p.m. Appointments can be made in person or by calling (850) 474-2172.

**Housing and Residence Life**

A variety of University housing options are available to students wishing to live on campus. UWF has eight residential areas. The Residence Halls, including Martin, Argo, Pace, and Southside Villages, provide double and triple occupancy with a private bath in each room. Heritage Hall and Presidents Hall provide suite-style accommodations and offer single or double bedrooms. The Village East and West Apartments consist of apartment-style accommodations for upper division students. The Village Apartments offer two and four person furnished units. Different types of room styles, configurations, and rental rates are available to meet the needs of UWF students. Students may also choose to reside in a Living and Learning Community. Please refer to our website at uwf.edu/housing for further information. The residential areas offer a variety of amenities including furnishings, laundry facilities, private bathrooms, refrigerator/microwave units, area offices, courtyards, student lounges, study areas, paid utilities, basic cable, and Internet access. Major kitchen appliances are provided in each Village Apartment. Residence Life staff, including Hall Directors and Resident Assistants (RAs), reside within all areas to help resident students build communities. Staff members offer a variety of educational, cultural, and social programs for residents.

Housing contracts are collected on a first-come, first-served basis. This process is based on the date the contract is received by the University online. Prospective students are urged to submit their University housing contract as soon as they are accepted to the University with a priority deadline of May 1st. The University Housing contract process is separate from the UWF admission process. Students will complete a contract online at uwf.edu/housing and will provide a prepayment and a processing fee to the UWF Cashier’s Office or online. The term of the contract is for the fall and spring semesters (one full academic year). Housing for the summer term is also available for students taking summer courses. For information regarding University housing please contact the Department of Housing and Residence Life at (850) 474-2463 or visit the housing website at uwf.edu/housing.

**ID/Nautilus Card**

The Nautilus Card is UWF’s official identification card. It is not the same as the HigherOne debit card. The Nautilus Card serves as a library card, access card, copy card, meal plan card, and a declining balance card. When money is deposited into the Nautilus Card account, it can be used to make purchases at the UWF Bookstore, Dining Services locations, the Ticket Center, Postal Services, most vending machines on campus, and some laundry locations. Students may also use the card to pay tuition, tickets, fees or fines at the Cashier’s Office. Deposits may be made at the Cashier’s Office, via their MyUWF account, or at one of the automatic deposit machines (ADM) conveniently located around campus. Additionally, students may elect to have excess Financial Aid funds placed on their Nautilus Card after all tuition and fees have been paid. Students may view their account information online via their MyUWF account, including card balances, swipe history (financial and access), and meal plan information.

Students registering for on-campus classes will be assessed an annual I.D. fee of $10. If a student’s card is lost or stolen, he or she must contact the Nautilus Card Office immediately or contact the UWF Police after regular business hours, on weekends, and holidays. The cost for a replacement card is $15. Contact the Nautilus Card Office in Building 20W, at (850) 474-3324, or at uwf.edu/idcard.

**Information Technology Services**

UWF provides students with access to a variety of quality information technology services and resources. Many of these resources are provided by the central IT department (ITS) and others are provided by individual colleges and departments. Information on all ITS services is available at uwf.edu/helpdesk.
**ArgoNet Account**

Your ArgoNet username and password allow you to use UWF technology and online services. Never share your password with anyone because it provides access to your confidential personal information and coursework.

**MyUWF**

MyUWF (my.uwf.edu) contains all of the online services used by UWF students including email, eLearning classes, class registration, grades, ArgoPulse, eDesktop virtual computer lab, academic records, financial resources, file storage and web hosting space.

**UWF Email**

Students access email at gmail.students.uwf.edu. As a student, your email address is your ArgoNet username followed by "@students.uwf.edu" (ex. abc1@students.uwf.edu). Faculty and staff email addresses end with "@uwf.edu" (ex. aclark@uwf.edu). UWF Google Apps also contains Google Calendar, Google Docs, Google Sites, and Google Chat. More information is available at uwf.edu/helpdesk/google.

**eLearning**

eLearning is UWF's online course system. It contains your fully online courses as well as online materials that supplement your face-to-face courses. eLearning enhances the online learning experience through web pages, discussion groups, blogs, and more. You can access eLearning through MyUWF (https://my.uwf.edu) - search for "eLearning." Some online courses also use Elluminate, a web-conferencing tool that enables instructors and students to meet in a virtual classroom. More information on eLearning is available at uwf.edu/helpdesk/support/elearning.cfm.

**ArgoAir Wireless Network**

ArgoAir is UWF's on-campus wireless network. ArgoAir allows you to be mobile at UWF and connect to the Internet from many locations throughout campus including the John C. Pace Library, the University Commons, and most classrooms and administrative buildings. In Pensacola, the coverage area extends to some outdoor green areas. ArgoAir is safe and secure and only available to UWF students and employees. You must configure your wireless settings to connect. Setup instructions are available at uwf.edu/helpdesk/internetaccess/wireless.

**Campus Computer Labs**

UWF has three general purpose computer labs, among many other departmental computer labs available for student use. On the Pensacola campus, the Building 79 Lab and the CyberLounge in the University Commons offer high-end computers, laser printers, high-speed internet, DVD drives, CD burners, and a variety of software. Student technicians are available to answer questions. Computer lab hours and locations are available at uwf.edu/computerlabs.

**eDesktop Virtual Computer Lab**

When you need to use computer lab software but you don’t have easy access to a campus computer lab, you can use the eDesktop virtual computer lab. With eDesktop you can access University-licensed computer applications from any computer with a high-speed Internet connection. When using eDesktop, your computer displays a virtual version of a UWF computer lab computer, making it appear as though you are sitting in front of a workstation in a campus lab, complete with the most frequently used computer applications. Essentially, eDesktop allows you to work on a lab computer from home, a residence hall, or around the world. eDesktop is available through MyUWF (https://my.uwf.edu) - search for "eDesktop." More information on eDesktop is available at uwf.edu/helpdesk/support/edesktop.

**Personal File Storage Space (H: drive) and Web Publishing Space (I: drive)**

UWF students receive academic file storage (H: drive) and web publishing space (I: drive) on the UWF server (200MB total). Files are automatically backed up every hour. Files saved to your H: drive are only accessible with your ArgoNet password; files saved to your I: drive are posted to the Internet. Your H: and I: drives are available through MyUWF (https://my.uwf.edu) - search for "File Storage." You will also find links to your H: and I: drives in eDesktop and campus computer labs. More information on personal storage space is available at uwf.edu/helpdesk/support/filestorage/personal.cfm.

**Protect Your PC**

Each student is responsible for keeping his or her computer free of viruses and spyware. To help, UWF provides free McAfee anti-virus software. Most new computers come with a trial copy of anti-virus software, but when it expires your computer becomes vulnerable. It’s important to use a non-trial version such as the software provided by UWF. Download McAfee through MyUWF (https://my.uwf.edu) - search for "Software." You should also regularly scan your computer for spyware with a legitimate anti-spyware program such as Malwarebytes’ Anti-Malware (malwarebytes.org). More information on protecting your PC is available at uwf.edu/helpdesk/computersecurity.

**ITS Help Desk**

The Information Technology Services (ITS) Help Desk is the primary support provider for UWF technology. Students are encouraged to contact the ITS Help Desk for assistance with UWF technology resources. Help Desk analysts are available via phone: (850) 474-2075, email: helpdesk@uwf.edu, and chat: uwf.edu/helpdesk. For self-service help, visit uwf.edu/helpdesk. A list of supported services is available at uwf.edu/helpdesk/aboutus/whatsupport.

**Libraries**

The University of West Florida Libraries include the John C. Pace Library and the Professional Studies Library on the Pensacola campus and the Fort Walton Beach Campus Library on the Fort Walton Beach campus. Through the libraries’ Internet-based home page, library.uwf.edu, students at all locations have access to the catalog of materials held by all UWF libraries, to a multitude of electronic reference databases and indexes, and to full-text journal articles and books. For those materials not held locally or electronically, students may request interlibrary loan. Professional librarians are available at all locations to assist students in the effective use of materials, the computerized library system, and with retrieving materials through intercampus or interlibrary loan.

**Pensacola Campus/John C. Pace Library**

The John C. Pace Library houses more than 850,000 volumes, over 1.7 million microform pieces, over 6,700 print and electronic serials subscriptions and has access to online articles from over 50,000 serials. The library is also a regional depository for U.S. and Florida government publications. The Special Collections unit contains over one million unique items relating to Pensacola and to the historic West Florida region.
Emerald Coast Campus Library

The Emerald Coast Campus Library is located in Fort Walton Beach and provides access to information resources which support courses taught on that campus. The collection has over 27,000 volumes and dozens of print serials subscriptions. Emerald Coast students also have access to all electronic resources including online books, databases, and journals. Items held at the Pace Library can be retrieved for use at the Emerald Coast Campus locations.

Parking Services

All students and employees who park on University property are required to register their vehicles and purchase a parking permit online via MyUWF (https://my.uwf.edu) - search for ‘parking’. Permit enforcement begins the first day of class each term. Students should ensure that a current valid permit is properly displayed on their vehicle.

Decal or hanging style permits are available. Semester permits may be purchased at 1/2 the yearly rate. A Convenience Fee is NOT incurred if a parking permit is purchased online. Hang tags are transferable to another vehicle owned by the same individual. However, no permit is transferable to another individual. Decals must be affixed to the vehicle for which it was registered and are not transferable.

Visitors and guests may obtain a visitor’s pass at the Visitor’s Center, Parking Services, or the University Police Department. Fort Walton Beach Campus information may be obtained from the Cashier’s Office on that campus. This information can also be found at uwf.edu/parking.

Trolley Service

Three Trolleys serve the UWF campus during the Fall and Spring semesters, Monday through Thursday. On Friday, two Trolleys serve the campus with service ending at 4:15 p.m. On Saturdays, one Trolley serves the campus, with service ending at 4:05 p.m. There are 20 official Trolley stops on campus, but the Trolley will stop when hailed.

A Trolley schedule can be found on the Parking Services website (http://uwf.edu/parking). The Trolley also makes one stop off campus at the University Town Center Shopping area (Target/Publix on Nine Mile Road).

City Bus Service (ECAT)

Escambia County Area Transit (ECAT) buses run on campus Monday through Saturday each week. Students may receive two free bus passes each day by visiting Parking Services (building 91) and showing their Nautilus Card. For route details, visit https://goecat.com/routes-maps/ and click on Route 43.

Fort Walton Beach Campus information may be obtained from the Cashier’s Office on that campus. This information can also be found on our website uwf.edu/parking.

Postal Services

The University operates a full-service post office housed in the University Commons. Postal services include student mailboxes (offered free of charge to students living in University housing), money orders, stamp sales, overnight Express Mail, Priority and First-Class mail, media mail, 10 campus mail drops, package mailing and delivery services, and address changes. For additional information, contact Postal Services at (850) 474-2436 or visit the website at http://uwf.edu/postal/.

Student Printing

Student printing services are offered via 25 kiosks on the Pensacola campus and 1 on the Fort Walton Beach campus in the library.

Students may print from their home computer, smartphone device, online or using a USB at any of the kiosks. The kiosks accept most PC and MAC files. Prints are 8.5”x11” and may be color or black/white, simplex or duplex. For additional information, contact the Nautilus Card office at (850) 474-3234 or visit uwf.edu/studentprinting.

Recreation and Sports Services

Located in University Park, the Health, Leisure, and Sports (HLS) Facility and Aquatic Centers are managed by Recreation and Sports Services providing leisure and fitness activities for students, faculty, and staff. Seven program areas are designed to meet diverse campus recreation needs, including Aquatics, Fitness/Wellness, Instructional Programs, Intramural Sports, Facility Operations, Sport Clubs, and Outdoor Adventures. For further information, visit uwf.edu/recreation.

The Fitness Center

The $15M HLS Facility houses the Fitness Center, with over 10,000 sq. ft. of workout space, and offers the perfect environment for personal training and fitness assessment for individuals at all fitness levels. A wide variety of group fitness classes are taught six days a week. Enjoy reasonably priced massage therapy after a strength training or aerobic workout. The Climbing Center is a state-of-the-art, indoor wall accommodating all abilities and experience levels. At 36 ft. tall, it has plenty of challenges for everyone. There is top-rope climbing as well as bouldering. Routes are changed regularly to provide new challenges for regular visitors.

Intramural Sports

The purpose of intramural sports is to provide a comprehensive and diverse program of both competitive and recreational experiences. The program is designed to meet the needs and interests of currently enrolled students, faculty, and staff members. More than 40 activities are offered featuring team sports, individual/dual sports, meets, and special events.

The Sport Clubs Program

The Sport Clubs program provides specialized sports instruction and extramural competition. Established clubs include Aquatic Racing, Ballroom Dance, Cheerleading, Climbing, Cycling, Dance, Fencing, Handball, Lacrosse, Men’s Rugby, Paintball, Pura Sabrosura, Running, Sailing, SCUBA, Shotokan Karate, Soccer, Surf, Table Tennis, Ultimate Frisbee, Water-ski & Wakeboard, and Wrestling.

The Outdoor Adventure Program

Outdoor Adventures provides outdoor trip experiences and training to members of the University campus community. Activities include rock climbing, canoeing, backpacking, rafting, and other nontraditional human-powered outdoor sports. No experience is necessary and all events are open to beginners.

The University Aquatic Center

The Aquatic Center has an Olympic-sized, heated swimming pool, two 1M and one 3M spring boards, whirlpool and dry sauna. A hydraulic lift and an Aqua Step enable use by physically challenged individuals. Curriculum includes swim lessons and advanced courses in Lifeguard Training, CPR, First Aid, and Water Safety Instructor. The Aquatic Racing Club invites competitors to join and the Swim Club welcomes the fitness swimmer. A valid Nautilus Card gives students free access. Group rentals welcome.
Facility Operations

Facility Operations allows access to and checkout of sports and recreational equipment. Upon presentation of a valid Nautilus Card, students, faculty, and staff may use the HLS facility, sailing and outdoor facilities. Recreation and Sports Services also has a variety of activity spaces available for rental. Contact the Office of Recreation for more information at (850) 474-2580 or recreation@uwf.edu.

University Park and Oak Grove Picnic Area is a 15-acre recreational space with multiple fields, courts and an 18-hole disc golf course. The Park is open dawn to midnight. It is a great place to play and hangout.

Skills Improvement Centers

The Mathematics and Statistics Tutoring Laboratory

The Mathematics and Statistics Tutoring Laboratory provides individual tutorial instruction for students who need help in mathematics or statistics courses. It is staffed by mathematics or statistics undergraduate and graduate majors. The Lab is located in Bldg. 4, Room 321. Lab hours are: Monday-Thursday 9:00-5:00 and Friday 9:00-1:00. For further information, contact Dr. Franco Fedele, (850) 474-2276, with the Math Department.

The UWF Writing Lab

The Writing Lab, located in Building 51, offers services to students, faculty, administrators, and staff. Any University student may use the Writing Lab for assistance with spoken and written English, including writing effective college papers. The Writing Lab offers many valuable services, which are available 40 hours a week. For additional information, contact the Writing Lab at (850) 474-2129 or send an email to writelab@uwf.edu. Download the Write Advice Newsletters and handouts from the website: uwf.edu/writelab.

Student Ombudsperson

The ombudsperson serves as an alternate resource for all students to complement other existing channels of communication and conflict resolution. The role of the ombudsperson is to serve as a resource and designated neutral party for those who may have a University-related concern or grievance. Such problems may be related to grades, difference of opinion with instructors, interpretation of University policies, or other administrative issues. Students seeking guidance or assistance related to their University of West Florida (UWF) experience - both academic and nonacademic - should contact the UWF Student Ombudsperson. The Student Ombudsperson, a full-time University staff member, acts as an impartial campus resource by evaluating the student’s situation and assisting him/her in navigating the steps necessary to resolve the issue.

The UWF Student Ombudsperson CAN ASSIST students by:

• Explaining University policies, procedures and appeals processes
• Outlining the student grievance process, including processes for grieving decisions related to access to courses and degree credit
• Acting as a resource / referral guide
• Listening to the student’s concern and providing options for resolving the issue
• Working with the student and other campus officials to reach a resolution to the problem presented

The UWF Student Ombudsperson DOES NOT:

• Provide legal advice
• Have the authority to change University policies or procedures
• Have the authority to over-turn decisions made by other University officials
• Act as a student's advisor in student conduct hearings or grievance processes

The Associate Dean of Students / Director of Inclusion Services and Programs, Dr. Lusharon Wiley, is the UWF Student Ombudsperson. Her office is located in the Dean of Students Office in Building 21, Room 130 or call (850) 474-2384.

Student Advocate

In addition to the Student Ombudsperson, a Student Advocate is available to assist students with information regarding University policies, grievance procedures, and appeal procedures. The Student Advocate may also serve as a facilitator in the resolution of disagreements, grievances or otherwise unsatisfactory conditions. The Student Advocate, a UWF student, is appointed by the Student Government Association (SGA) President. Students wishing to speak with the Student Advocate should go to the SGA Office located in the University Commons, Room 227 or call (850) 474-2393.

21st Century Scholars

21st Century Scholars is responsible for the administration of programs designed to increase recruitment, retention and graduation rates of participating students. 21st Century Scholars provide academic support services for students enrolled at the University. For more information, contact 21st Century Scholars located in Building 18, Room 137 or call (850) 474-3266, or visit uwf.edu/studentsuccess/.

Brother to Brother

Brother to Brother is a pilot mentoring component designed to increase retention and graduation rates of African-American, Latino, and Hispanic males. For more information, contact Brother-to-Brother located in Building 18, Room 137 or call (850) 474-2253/2238/3421, or visit uwf.edu/student success/programs.cfm.

The Learning Center

The Learning Center provides free tutorial assistance and academic support services to all students, including distance learners enrolled at the University of West Florida. The Learning Center is located in Building 52, Room 131. Please contact (850) 474-3488 or visit uwf.edu/learningcenter/.

Mentoring Program

The Mentoring Program pairs juniors with freshmen for a two year mentorship. When the freshman student becomes a junior the student will become a mentor, creating a cascading mentoring program.

TRiO/Student Support Services Program

Student Support Services Program (SSS) is a federally-funded TRiO program which provides academic support for eligible undergraduate students. Services include: tutoring, intrusive advising, career planning, cultural and social activities, and academic intervention. The TRiO/SSS serves low income, first generation students and disabled students. For more information, contact Student Support Services located in Building 18, Room 145 or call (850) 474 3212, or visit uwf.edu/trioss/.
Testing
The Testing Center offers information on numerous testing programs, and can provide specific information about the following tests:

- ACT Program
- College Level Examination Program (CLEP)
- Teacher Certification Examination (FTCE)
- Graduate Management Admission Test (GMAT)
- Graduate Record Exam (GRE)
- Law School Admission Test (LSAT)
- Medical College Admission Test (MCAT)
- Miller Analogies Test (MAT)
- Computerized Pre-professional Skills Tests for Teachers (PRAXIS)
- SAT Reasoning Test & Subject Tests
- Test of English as a Foreign Language (TOEFL)
- Test of Essential Academic Skills (TEAS)

The Testing Center also has a computer-based testing center (CBT). The following exams are currently administered via computer at UWF: GRE, MAT, TOEFL, PRAXIS, CLEP, TEAS, and several others.

University Police
The University Police Department's mission is to provide for the safety and security of students, faculty, staff, and visitors, as well as facilities security. The department provides a full range of police and security services to include uniform patrol, investigations, crime prevention, and victim advocate personnel. The department is comprised of sworn police officers, communications personnel, and security officers who are available 24 hours a day. The possession and/or use of firearms is prohibited on campus.

Campus Sex Crime Prevention Act
This federal law is aimed at tracking convicted sex offenders enrolled at or employed by institutions of higher education. The act requires sex offenders registered with the state to provide notice to the state of each institution of higher education that the offender is employed, carries on a vocation, or is enrolled as a student. To obtain additional information on this act or a listing of convicted offenders at the University, contact uwf.edu/uwfpolice/ or the University Police Department.

Jeanne Clery Disclosure for Campus Security Policy and Campus Crime Statistics Act
This is a federal law requiring institutions of higher education to disclose campus security information, including crime statistics for the campus and surrounding area. Current and prospective students or employees have the right to obtain a copy of this information for the University. Students may review this information by accessing the federal government website at ope.ed.gov/security/search.asp (http://ope.ed.gov/security/search.asp) (by typing in the "University of West Florida") or by accessing the University website at uwf.edu/uwfpolice/. Students may also obtain a copy of this information upon request by contacting the University Police Department.

Vending Services/Beverage Rights
Beverage and snack vending machines are located in most buildings on campus, including residence halls. Only Buffalo Rock/Pepsi brand beverages are being sold on the Pensacola campus. Your Nautilus Card may be used at most of the vending locations.

All beverage products being used for University events should be Buffalo Rock/Pepsi products regardless of the funding source used to purchase the products. Competitive products, even if donated, should not be served at University events on the Pensacola campus. For additional information, contact the Auxiliary Services Office at (850) 474-2640.

Voter Registration
State law requires colleges and universities to provide each enrolled student the opportunity to apply to register to vote or to update their voter registration records at least once a year. Voter registration information at the University may be obtained during orientation or at various locations around campus, including the University Commons, Student Affairs, Registrar, the Fort Walton Beach Campus, or the Advising Center. For further information on this amendment, contact Student Affairs at (850) 474-2214. Students with disabilities may obtain information and assistance in filling out the cards at the Student Disability Resource Center.
Graduate Degrees and Areas of Specialization

For information on UNDERGRADUATE DEGREES see the Undergraduate Catalog.

Master’s Degrees

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<td>M.S.</td>
<td>Master of Science</td>
</tr>
<tr>
<td>M.S.A.</td>
<td>Master of Science in Administration</td>
</tr>
<tr>
<td>M.S.N.</td>
<td>Master of Science in Nursing</td>
</tr>
<tr>
<td>M.S.W.</td>
<td>Master of Social Work</td>
</tr>
</tbody>
</table>

Specialist Degree

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed.S.</td>
<td>Specialist in Education</td>
</tr>
</tbody>
</table>

Doctoral Degree

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed.D.</td>
<td>Doctor of Education</td>
</tr>
</tbody>
</table>

GRADUATE DEGREE PROGRAMS AND SPECIALIZATIONS OFFERED BY UWF INCLUDE:

Master’s Degrees

- Accountancy, M.Acc. (p. 57)
  - Professional Accountancy
  - Taxation
- Administration, M.S.A. (p. 57)
  - Acquisition & Contract Administration
  - Cybersecurity
  - Database Administration
  - Geographic Information Science
  - Healthcare Administration
  - Human Performance Technology
  - Leadership
  - Public Administration
  - Software Engineering Administration
- Anthropology, M.A. (p. 62)
  - Anthropology
  - Historical Archaeology
- Biology, M.S. (p. 63)
  - Biology
  - Coastal Zone Studies
  - Environmental Biology
  - Business Administration, M.B.A. (p. 65)
  - College Student Affairs Administration, M.Ed. (p. 66)
- Communication Arts, M.A. (p. 67)
  - Strategic Communication and Leadership
- Community Health Education, M.S. (p. 68)
  - Aging Studies
  - Health Promotion and Worksite Wellness
  - Psycho-Social
- Computer Science, M.S. (p. 69)
  - Computer Science
  - Database Systems
  - Software Engineering
- Criminal Justice, M.S. (p. 70)
- Curriculum & Instruction, M.Ed. (p. 71)
  - Educational Professional
  - Elementary Education Comprehensive
  - Middle Level Education Comprehensive
  - Primary Education Comprehensive
  - Reading Instruction
  - Secondary Education Comprehensive
- Educational Leadership, M.Ed. (p. 75)
  - Educational Leadership Certification
  - Education and Training Management (ETMS)
- English, M.A. (p. 77)
  - Creative Writing
  - Literature
- Environmental Science, M.S. (p. 78)
- Exceptional Student Education, M.A. (p. 80)
  - Exceptional Student Education Comprehensive
- Health, Leisure & Exercise Science, M.S. (p. 81)
  - Exercise Science
  - Physical Education
- History, M.A. (p. 82)
  - Early American Studies
  - History
  - Public History
- Instructional Technology, M.Ed. (p. 84)
- Mathematics, M.S. (p. 85)
- Nursing, M.S.N. (p. 87)
  - Leadership and Management
  - Education
- Political Science, M.A. (p. 87)
- Psychology, M.A. (p. 89)
  - Applied Experimental
  - Counseling - Licensed Mental Health Counselor
  - Industrial-Organizational
- Public Health, M.P.H. (p. 92)
- Reading, M.Ed. (p. 94)
- Social Work, M.S.W. (p. 95)

Educational Specialist Degrees

- Curriculum & Instruction, Ed.S. (p. 96)
- Educational Leadership, Ed.S. (p. 97)
Doctoral Degrees
- Curriculum & Instruction, Ed.D. (p. 98)
  - Administrative Studies
  - Curriculum Studies
  - Diversity Studies
  - Higher Education
  - Instructional Technology
  - Physical Education and Health
  - Sciences & Social Sciences
  - Teacher Education

Graduate Certificate Programs
*Accelerated Bachelor to Master's program option available. See Undergraduate Catalog for details.

Degrees Available at the Emerald Coast Campuses:
Also refer to programs offered through the Online Campus

Master's Degree
- Business Administration, M.B.A.
- Social Work, M.S.W.

Degrees Available at the UWF Online Campus:

Master's Degrees
- Administration, M.S.A.
  - Acquisition and Contract Administration
  - Cybersecurity
  - Database Administration
  - Geographic Information Science
  - Health Care Administration
  - Human Performance Technology
  - Leadership
  - Public Administration
  - Software Engineering Administration
- Computer Science, M.S.
  - Database Systems
  - Software Engineering
- Curriculum & Instruction, M.Ed.
  - Educational Professional
  - Elementary Education Comprehensive
  - Middle Level Education Comprehensive
  - Primary Education Comprehensive
  - Reading Instruction
  - Secondary Education Comprehensive
- Educational Leadership, M.Ed.
  - Education and Training Management (ETMS)
  - Educational Leadership Certification
- Exceptional Student Education, M.A.
  - Exceptional Student Education Comprehensive
- Instructional Technology, M.Ed.
  - Mathematics, M.S.
  - Nursing, M.S.N.

• Leadership and Management
• Education
• Political Science, M.A.
• Public Health, M.P.H.
• Reading, M.Ed.

Educational Specialist Degree
- Educational Leadership, Ed.S.

Doctoral Degrees
- Curriculum & Instruction, Ed.D.
  - Curriculum Studies
  - Instructional Technology

Graduate Certificate Programs
The University offers a variety of certificate programs to pursue as a stand alone certificate, to complete in conjunction with a graduate degree, or to take for professional development. Requirements are determined by the academic department offering the certificate. Upon approval and notification to the Office of the Registrar from the academic department, awarding of a certificate is listed on the transcript. Actual certificates of recognition may or may not be issued by the academic department. Contact the academic department offering the certificate program for more information, including application procedures. For information regarding VA certification of certificate programs, please contact the Military and Veteran's Resource Center (MVRC) (http://uwf.edu/mvrc). The following certificate programs are credit-bearing and currently offered at the graduate level:

Civics Educator Certificate (p. 87)
Database Systems (p. 69)
Distance Learning (p. 85)
Entrepreneurship (p. 66)
Graduate Business Foundations (p. 65)
Graduate Certificate in GIS (p. 79)
Health Communication Leadership (p. 68)
Health Psychology (p. 92)
Historic Preservation Studies (p. 84)
Human Performance Technology (p. 85)
Medical Informatics (p. 86)
Medical Informatics, Advanced (p. 87)
Not-For-Profit Administration (p. 61)
Professional Accountancy (p. 57)
Public Health/Emergency Management (p. 93)
Public Health/Environmental Health (p. 93)
Public Health/Infection Control (p. 94)
Public Health/Occupational Safety and Health (p. 94)
Teacher Ready (p. 74)
Virtual Educator (p. 85)
Accounting

The M.Acc. develops the graduate student's conceptual understanding of current and emerging technical issues facing the accounting profession, advanced technical skills in the field, and research and communication skills commensurate with the requirements of the accounting profession. The M.Acc. requires 30 semester hours of coursework, exclusive of Foundational Proficiencies. The core courses provide advanced work in the areas of financial and managerial accounting, contemporary professional issues, auditing, tax research, and financial management. A strong emphasis on the development of analytical, communication, and presentation skills is evident in the courses. Students wishing to focus more on tax issues may obtain a specialization in taxation.

Graduates of this program are now successfully pursuing careers in public accounting as auditors, consultants, and tax practitioners; in industry as financial and operational managers; and in government in a variety of roles. The emphasis on written and verbal skills, when combined with the emphasis on analysis and advanced technical information, is intended to prepare graduates to pursue a wide variety of professional opportunities.

Contact the department for information about graduate assistantships and scholarships.

Foundational Proficiencies

Admission to candidacy in the M.Acc. program is gained by demonstrating proficiency in the college's core curriculum and the following accounting courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 3101</td>
<td>Intermediate Financial Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACG 3111</td>
<td>Intermediate Financial Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>ACG 3343</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 3401</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACG 4151</td>
<td>Accounting Theory</td>
<td>3</td>
</tr>
<tr>
<td>ACG 4201</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 4651</td>
<td>Auditing</td>
<td>3</td>
</tr>
<tr>
<td>BUL 3130</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>TAX 4001</td>
<td>Tax Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 30

These proficiencies may be demonstrated by satisfactory completion of equivalent courses or by special examination. Courses completed more than four years prior to admission must be reviewed and, in most instances, an examination to determine proficiency will be recommended.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Management Admissions Test (GMAT)
  - Graduate Record Examination (GRE)
- Undergraduate cumulative GPA
- Submission of letter of intent
- Submission of two academic/professional letters of recommendation

Application and Counseling

Inquiries should be addressed to the chairperson of the Department of Accounting and Finance. The chairperson or a representative will assist in all matters of application, admission, degree planning, and graduation. Copies of the transcripts describing prior academic work and results of the graduate admission test should be submitted at the time of application to the Graduate School.

Degree Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6308</td>
<td>Advanced Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6805</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6856</td>
<td>Advanced Auditing</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5831</td>
<td>Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6406</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6065</td>
<td>Tax Data Bases, Research and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>Program Electives</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

5000/6000 Advisor-approved ACG/TAX electives totaling 9 hours. Must fulfill Corporate Income Tax and Governmental & Non-Profit Accounting requirements at undergraduate or graduate level.

Taxation Specialization

For a Taxation Specialization, at least two of the advisor-approved electives must be TAX courses.

Certificates

Professional Accountancy Certificate

Department: Accounting

Method of Instruction: Online

Semester Hours: 12

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 3.0 or higher for the course required by the certificate.

This certificate is designed for students and accounting professionals with a bachelor's degree in accounting or the equivalent who need additional courses to sit for the CPA examination. Available courses include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 5205</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5658</td>
<td>Governmental and Non-Profit Accounting</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5105</td>
<td>Corporate Income Tax</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5831</td>
<td>Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5255</td>
<td>International Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 5807</td>
<td>Special Topics in Accounting</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6065</td>
<td>Tax Data Bases, Research and Procedure</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6405</td>
<td>Estate Gift and Trust Taxation</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6875</td>
<td>Special Topics in Taxation</td>
<td>3</td>
</tr>
</tbody>
</table>

Administration

The Master of Science in Administration is an interdisciplinary degree designed to prepare students for leadership roles as managers and administrators in public, nonprofit, and private agencies. The business core prepares students to assume positions in general settings while the chosen specialization prepares them for management and administration in a specific field. There are eight specializations from which students may choose: Acquisition and Contract Administration,
Cybersecurity, Database Administration, Geographic Information Science (GIS), Health Care Administration, Human Performance Technology, Leadership, Public Administration, and Software Engineering Administration.

In addition to general University requirements, students seeking the M.S.A. must meet the requirements listed below.

**Program Requirements**

All specializations in the M.S.A. have a common core. Students must earn a “C” or above in all courses. No more than 49% of the program requirements for the M.S.A. degree may be taken in traditional business subjects.

**M.S.A. Core (12 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6358</td>
<td>Evaluation for MSA Professionals</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
<td>1.5</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose two from the following:</td>
<td></td>
</tr>
<tr>
<td>GEB 5670</td>
<td>MBA Foundations: e-Business Systems</td>
<td>3</td>
</tr>
<tr>
<td>GEB 5676</td>
<td>MBA Foundations: Marketing Management</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

**Acquisition and Contract Administration Specialization**

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing scores
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant’s motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant
- Indication of the applicant’s ability to succeed in a graduate program as reflected in three letters of recommendation

**M.S.A. Core (12 sh)**

**See Program Requirements**

**Acquisition and Contract Administration Specialization (24 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5635</td>
<td>Government Contract Law</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5855</td>
<td>Acquisition Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5862</td>
<td>Government Cost and Pricing Analysis</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6275</td>
<td>Political Economy of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>6000 level advisor approved Advanced Contract Administration Electives</td>
<td>6</td>
</tr>
</tbody>
</table>

Capstone Experience 3

**Cybersecurity Specialization**

The specialization in Cybersecurity is an interdisciplinary degree that prepares students for leadership roles in cyber-related positions in public, nonprofit, and private organizations. Coursework also prepares students for admission to doctoral programs and professional schools.

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing scores
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant’s motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant
- Indication of the applicant’s ability to succeed in a graduate program as reflected in three letters of recommendation

**M.S.A. Core (12 sh)**

**See Program Requirements**

**Cybersecurity Specialization (25)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6074</td>
<td>Software Assurance and Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6376</td>
<td>Database Security</td>
<td>3</td>
</tr>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5517</td>
<td>Secure Software Development</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 25

**Database Administration Specialization**

The specialization in Database Administration is an interdisciplinary degree designed to prepare students for leadership roles in database fields in public, nonprofit, and private organizations. Coursework also prepares students for admission to doctoral programs and professional schools.

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:
• Submission of one of the following graduate admission tests:
  • Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing scores
  • Miller Analogies Test (MAT)
  • Graduate Management Admissions Test (GMAT)
• Undergraduate cumulative GPA
• Undergraduate degree major
• The applicant’s motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant
• Indication of the applicant’s ability to succeed in a graduate program as reflected in three letters of recommendation

M.S.A. Core (12 sh)
See Program Requirements

Database Administration Specialization (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>Advisor approved 6000-level electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (Course taken two times for 6sh)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 24

Geographic Information Science (GIS)
The specialization in Geographic Information Science (GIS) is an interdisciplinary degree designed to prepare students for leadership roles involving the use of GIS in public, nonprofit, and private organizations. As part of the coursework, students will be provided with the opportunity to become technically proficient in a variety of geospatial technologies through hands-on instruction. The program focuses on advanced skill development in computational modeling and management decision support and will address the growing need for GIS developers, managers, and analysts. The proposed courses and internships have been carefully combined to reflect the real-world requirements needed for careers in the geospatial sciences. With 100% of the coursework offered online, this program is designed to meet the needs of working professionals who did not acquire a GIS background as part of their primary academic training while they continue to hold their position in their chosen field.

Admission Requirements
In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

• Submission of one of the following graduate admission tests:
  • Graduate Record Examination (GRE)
  • Miller Analogies Test (MAT)
  • Graduate Management Admissions Test (GMAT)
• Undergraduate cumulative GPA
• Undergraduate Senior Year/Major GPA

• Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
• Submission of three Recommendation Forms (http://catalog.uwf.edu/graduate/administration/GIS_Letter_of_Recommendation_Form.pdf) (PDF)

Foundational Proficiencies (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 3015+L</td>
<td>Cartographic Skills (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4035+L</td>
<td>Photo Interpretation and Remote Sensing (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4043+L</td>
<td>Geographic Information Systems (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

M.S.A. Core (12 sh)
See Program Requirements

Geographic Information Science (GIS) (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6005</td>
<td>Communicating GIS</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6555</td>
<td>Geographic Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6955</td>
<td>GIS Capstone</td>
<td>6</td>
</tr>
</tbody>
</table>

Choose from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 24

Health Care Administration Specialization

Admission Requirements
In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

• Submission of one of the following graduate admission tests:
  • Graduate Record Examination (GRE)
  • Miller Analogies Test (MAT)
  • Graduate Management Admissions Test (GMAT)
• Undergraduate cumulative GPA
• Undergraduate Senior Year/Major GPA
• Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
• Submission of three Recommendation Forms (http://uwf.edu/msaprogram/documents/HLES_Letter_of_Recommendation_Form.pdf) (PDF)

M.S.A. Core (12 sh)
See Program Requirements

Health Care Administration Specialization (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6342</td>
<td>Human Resources in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6206</td>
<td>Community Health Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6707</td>
<td>Current Issues in Health Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose four (including at least two at the 6000 level): 12
Human Performance Technology Specialization

This online specialization combines a business perspective with human performance technology (HPT) theories and perspectives. It is designed to help individuals develop proficiency in resolving performance problems in military, business and industry, and educational systems. Graduates of the program work in a variety of settings, partnering with management to achieve optimal employee performance. They often serve as performance consultants in human resource and training departments with a human performance improvement focus. Graduates of this program are trained to do the following:

- Lead and manage HPT initiatives and processes in a variety of environments, working effectively with others to accomplish organizational goals
- Analyze complex, real-world individual and organizational goals
- Design, develop, implement, and evaluate interventions in a wide variety of settings
- Organize, manage, and evaluate business environments

Students interested in this topic should also review the Human Performance Technology Certificate (p. 85).

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Academic preparation
- Department review

M.S.A. Core (12 sh)

See Program Requirements

HPT Specialization (24 sh)

Additionally, a culminating experience as determined with the academic advisor and chairperson is required.

M.S.A. Core (12 sh)

See Program Requirements

Leadership Specialization

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program
- List of 3 references

M.S.A. Core (12 sh)

See Program Requirements

Leadership Specialization (24 sh)
Public Administration Specialization

The Public Administration Specialization is designed to provide students with the knowledge and skills to effectively manage agencies and people in public and nonprofit organizations.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing scores
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Graduate GPA, if applicable
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program
- List of 3 references

M.S.A. Core (12 sh)

See Program Requirements

Public Administration Specialization (24 sh)

Choose two of the following:

- PAD 5107 Modern Public Organization Theory 3
- PAD 5605 Administrative Law 3
- PAD 6227 Public Budgeting 3
- PAD 6275 Political Economy of Public Administration 3
- PAD 6417 Public Service Human Resource Management 3

Total Hours 24

Software Engineering Administration Specialization

The specialization in Software Engineering Administration is an interdisciplinary degree offered entirely online and is designed to prepare students for leadership roles in organizations of diverse domains that develop and maintain software systems for research, commercial, and internal use. Coursework also prepares students for admission to doctoral programs and professional schools.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing scores
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant’s motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant
- Indication of the applicant’s ability to succeed in a graduate program as reflected in three letters of recommendation

M.S.A. Core (12 sh)

See Program Requirements

Software Engineering Administration Specialization (24 sh)

Total Hours 24

Certificates

Not-For-Profit Administration Certificate

Department: Applied Science, Technology, and Administration

Method of Instruction: Online

Semester Hours: 10.5

The Certificate in Not-For-Profit Administration is designed to prepare students for leadership roles as managers and administrators in nonprofit, private sector agencies. The program is offered completely online. The courses in the Certificate Program are utilized in the broader Master of Science in Administration – Public Administration degree program, and as such provide a feeder venue for students who have completed the Certificate Program to apply for admission, and if admitted, move to the Master of Science in Administration –
Public Administration Degree program. The Certificate in Not-for-Profit Administration is designed to provide students a focused knowledge base and skill set useful in the effective administration of public and private not-for-profit organizations.

PAD 5146 The Nonprofit Profession 3
PAD 6335 Strategic Management for Public and Nonprofit Organizations 3
PAD 6227 Public Budgeting 3
GEB 5509 Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit Organizations 1.5
or EME 6358 Evaluation for NMSA Professionals
Total Hours 10.5

Anthropology

The Anthropology Master of Arts program prepares graduates for a variety of professional positions and entrance into doctoral programs. The department's approach combines a strong anthropological perspective, an active faculty, a vigorous research and contract program, flexibility, and many opportunities to obtain hands-on experience. The department has one of the largest and most active terrestrial and maritime archaeology programs and facilities in the Southeast. There is continuous on-going student-focused research and contracts in prehistoric, historic, coastal, and interior archaeological sites that include graduate students at all levels of responsibility.

Financial assistance includes many research assistantships in terrestrial and maritime archaeology through the Archaeology Institute, grants and contracts, internships, and the Marcus Fellowship for thesis completion.

This program requires a thesis. Students must complete all common core courses, but the remainder of their course work can be structured according to their interests with the approval of their advisor or committee. Up to 6 sh can be taken outside Anthropology.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Graduate Record Examination (GRE) score
- Undergraduate cumulative GPA
- Undergraduate degree major
- Submission of a formal letter of intent describing background, study interests, and professional goals
- Submission of a writing sample (term paper, conference paper, published paper, etc.)
- Submission of three letters of academic reference

The Anthropology graduate program emphasizes multidisciplinary and collaborative study and research. Admission exceptions can be made for promising students with prior degrees in different fields. Incoming students without a degree in Anthropology can become eligible for admission with the completion of upper division undergraduate level core courses in anthropology with a grade of "B" or higher. The core courses must include cultural anthropology, biological anthropology, archaeology, and theory.

Degree Requirements

All work toward the Master's degree, including the thesis, must be completed within four years from the semester of the first course taken. Request for an extension may be considered.

All students are assigned a graduate advisor upon admission to the program. All course work must be approved in writing each semester by this advisor and filed with the department chair prior to registration for courses. At the end of the third semester of courses, graduate students must form a Thesis Committee consisting of three faculty members. The chair must have a doctoral degree in Anthropology. One committee member may be from outside the department, and a fourth member may be added from another University or college with permission of the committee and department chair.

Continuation of graduate students in the program is dependent upon the following:

- Maintenance of a 3.0 or higher GPA
- A grade lower than a "B-" will not satisfy program requirements

All students must complete all five required core courses, an additional course in each subfield, a research tool if necessary, and three electives that are approved by their advisor or Thesis Committee.

Program Capstone

Thesis

Graduate students must prepare a formal Thesis Proposal for their committee's approval. When successfully completed, the graduate student will be allowed to begin his or her thesis. Theses must be approved by the Thesis Committee and successfully defended by the candidate in an open defense.

Anthropology

Foundational Proficiencies

A baccalaureate degree in Anthropology is preferred, but completion of upper division undergraduate level core courses in Anthropology with a grade of “B” or higher is acceptable. The core courses must include Cultural Anthropology, Biological Anthropology, Archaeology, and Theory.

Degree Requirements

Anthropology Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6110</td>
<td>Advanced Method and Theory in Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6266</td>
<td>Contemporary Cultural Anthropological Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6583</td>
<td>Evolutionary Theory in Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6002</td>
<td>Proseminar in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6093</td>
<td>Research Design in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Required Subfield Courses (9 sh)

Three additional 5000 to 6000 level courses, one from each of the three subfields: Archaeology, Biological, and Cultural Anthropology of the student’s choice with the approval of their Graduate Advisor

| Total Hours | 9 |

Electives

Three additional elective courses, at the 5000 level or higher, will be structured according to student interests with the approval of their Graduate Advisor

| Total Hours | 9 |
Research

**ANG 6971** Anthropology Thesis * 3

Total Hours 3

* Course offered 1-6 sh per semester; minimum of 3 sh required

### Historical Archaeology

The Historical Archaeology Specialization in the Anthropology Master’s Program is designed for students with a strong interest in the archaeology of the post-Columbus period and the combined use of documents and archaeology. The program consists of 36 sh, and it is designed for students with a baccalaureate degree in Anthropology or History who want to pursue a professional career in either terrestrial or maritime Historical Archaeology or continue to a doctoral program. The degree will qualify the graduate for entry-level professional positions in cultural resource management in private business or government agencies at the national, state, and local level. The degree also qualifies graduates for professional positions in some aspects of public archaeology, historic preservation, and University research institutions and centers.

### Foundational Proficiencies

**ANT 2511 +L** Biological Anthropology (+Lab) 4
**ANT 3101** Principles of Archaeology 3
**ANT 3212** Peoples and Cultures of the World 3

Choose one of the following Archaeological Field Methods:

**ANT 4121** Combined Archaeological Field Methods
**ANT 4824** Terrestrial Archaeological Field Methods
**ANT 4835** Maritime Archaeological Field Methods

Total Hours 11-19

* Course offered 1-9 sh per semester

### Degree Requirements

#### Historical Archaeology

**ANG 5172** Historical Archaeology Seminar 3
**ANG 5173** Historical Research Methods in Archaeology 3
**ANG 6110** Advanced Method and Theory in Archaeology Seminar 3
**ANG 6196** Policies, Practices and Archaeology in Historic Preservation 3
**ANG 6824** Advanced Archaeological Field Methods 3

Total Hours 15

#### History

5000/6000 level advisor or committee approved History courses. 9

Total Hours 9

#### Electives

5000/6000 level advisor or committee approved Anthropology, History, or area of research-related courses. 9

Total Hours 9

### Research

**ANG 6971** Anthropology Thesis * 3

Total Hours 3

* Course offered 1-6 sh per semester; minimum of 3 sh required

### Biology

The M.S. in Biology offers three areas of specialization:

- Biology Specialization (thesis)
- Coastal Zone Studies Specialization (non-thesis)
- Environmental Biology Specialization (non-thesis)

### Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Graduate Record Exam (GRE) Verbal score of at least 450 and Quantitative score of at least 550 "or" Verbal score of at least 151 and Quantitative score of at least 152 on the revised GRE (based on distributions of scores of recent Life Sciences test takers).
- Earned baccalaureate degree
- **Thesis Track**: Applicants for the thesis track should hold a B.S. in Biology or a related field from an accredited college or university. Applicants applying for admission to the thesis track with a B.A. in Biology or a B.S. degree in another area must have satisfactorily completed all upper and lower division core classes (or equivalents) required of UWF biology undergraduates.
- **Non-Thesis Track**: Applicants applying for admission to the non-thesis tracks with a B.S. or B.A. in another discipline should have completed General Zoology, General Botany, Cell Biology, Genetics, and Ecology.
- Submission of a letter describing the student’s area of interest within biology, relevant past experience, future objectives, and, for students applying to the thesis track, the name of a UWF faculty member who has agreed to serve as their thesis advisor.
- Submission of three letters of recommendation from individuals who can evaluate the student’s academic ability.

**Department Guidelines**

Individual faculty members may request exemptions from some of the departmental but not University requirements listed above for specific students. Students desiring to transfer from a non-thesis to a thesis specialization must fulfill all requirements for admission to that specialization.

**Departmental Application Deadlines and Review Process**

Prospective students must submit the materials by the first Monday in June to be considered for admission in the fall semester, or by the first Monday in October to be considered for spring admission, or by the first Monday in March for admission in the summer semester. To be considered for financial aid within the department, all prospective students for each academic year must also submit these materials by the first Monday in March.

The completed application will be reviewed by the faculty and by the graduate program committee. Conditional admission may require the student to complete the appropriate foundation courses with grades of “B” or better. Only complete applications will be reviewed.
Students must also complete a departmental data sheet as part of the admission process. Students will be notified of the final decision on their admission to the program.

**Biology Specialization (Thesis)**

The thesis program is designed for students seeking advanced studies in areas of modern biology and biotechnology with training in the fields of aquaculture, biochemistry, ecology, environmental studies, fisheries biology, genetics, immunology, marine biology, microbiology, molecular biology, plant science, and physiology.

In addition to the University’s general academic requirements, students seeking the M.S. degree in Biology must meet the following departmental requirements:

- Select a thesis advisory committee composed of a chairperson and at least two additional faculty members.
- Meet with the thesis advisory committee and complete a written plan of study that specifies courses and other work necessary for the program.
- Submit a written research proposal acceptable to the thesis supervisory committee and demonstrate by oral examination that the proposed research is feasible.
- Complete a minimum of 33 semester hours of credit approved by the thesis advisory committee. Fifteen of these hours must be at the 6000 level, and must include the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6002L</td>
<td>Contemporary Laboratory Skills</td>
<td>4</td>
</tr>
<tr>
<td>BSC 6840</td>
<td>Professional Development in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 6971</td>
<td>Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>PCB 5924</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PCB 6074</td>
<td>Experimental Design in Biology</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

- Up to six semester hours of thesis may be taken towards degree requirements. Other 5/6000 level advisor approved electives may be taken towards completion of degree if student selects not to take the maximum thesis credits allowed. At least 5 semester hours of thesis is recommended in order to help ensure completion of the 15 hours at the 6000 level.
- Submit an acceptable thesis and successfully defend it in an oral public presentation.

**Coastal Zone Studies Specialization (Non-Thesis)**

In this non-thesis specialization, students will learn methods to identify and solve problems, management practices, and procedures for policy-making as they pertain to a coastal zone. Students with bachelor’s degrees in the physical sciences, geography, and resource management are encouraged to apply.

**Foundational Proficiencies**

Students must take the following courses or their equivalent.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 2010+L</td>
<td>General Botany (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3063+L</td>
<td>Genetics (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>BSC 2010+L</td>
<td>Biology I (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>BSC 2011+L</td>
<td>Biology II (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 4043+L</td>
<td>Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Elements of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 4173</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>GIS 3015+L</td>
<td>Cartographic Skills (+Lab)</td>
<td>4</td>
</tr>
</tbody>
</table>

**GIS 4043+L Geographic Information Systems (+Lab)** 4

1 A skills test can substitute for GIS 3015/L
2 Requires GIS 3015/L or equivalent

**Degree Requirements**

**A. Prior to registration the student will meet with the program advisor and discuss a plan for completing the required course work.**

**B. The student must complete 36 semester hours of course work composed of the required selections from the list below and from graduate electives as indicated:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6002L</td>
<td>Contemporary Laboratory Skills</td>
<td>4</td>
</tr>
<tr>
<td>BSC 6840</td>
<td>Professional Development in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 6905</td>
<td>Directed Study 1</td>
<td>5</td>
</tr>
<tr>
<td>GEO 5225+L</td>
<td>Coastal Morphology and Processes (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>PCB 5445+L</td>
<td>Estuarine Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 5446+L</td>
<td>Wetlands Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 5924</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PCB 6074</td>
<td>Experimental Design in Biology</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 36

1 An advisor approved 5 sh directed study must be taken, involving exposure to experimental or sampling design, data collection and analysis, and presentation of results to the supervisory committee.

**Environmental Biology Specialization (Non-Thesis)**

There is a great demand from local, state, and federal government, as well as from industry, for students with a strong background in environmental biology.

**Foundational Proficiencies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 2010+L</td>
<td>General Botany (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>BSC 2010+L</td>
<td>Biology I (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>BSC 2011+L</td>
<td>Biology II (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3063+L</td>
<td>Genetics (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 4043+L</td>
<td>Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Elements of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 4173</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>GIS 3015+L</td>
<td>Cartographic Skills (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4043+L</td>
<td>Geographic Information Systems (+Lab)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Hours** 34

1 A skills test can substitute for GIS 3015/L
2 Requires GIS 3015/L or equivalent

**Degree Requirements**

A student will learn methods to identify and solve problems, management practices, and techniques in scientific research and/or policy-making as they pertain to environmental studies and biology. This educational goal will require a strong background in ecology/environmental sciences.

**A. Prior to registration the student will meet with the program advisor and discuss a plan for completing the required course work.**
B. The student must complete 36 semester hours of course work composed of the required selections from the list below and from graduate electives as indicated:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 5305</td>
<td>Biogeography</td>
<td>3</td>
</tr>
<tr>
<td>BSC 6002L</td>
<td>Contemporary Laboratory Skills</td>
<td>4</td>
</tr>
<tr>
<td>BSC 6840</td>
<td>Professional Development in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 6905</td>
<td>Directed Study</td>
<td>1</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>PCB 5446+L</td>
<td>Wetlands Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 5924</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PCB 6074</td>
<td>Experimental Design in Biology</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6310</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved courses</td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

1 An advisor approved 2 sh directed study must be taken, involving exposure to experimental or sampling design, data collection and analysis, and presentation of results to the supervisory committee.

Business

The M.B.A. program develops the skills of management, the tools of problem-solving, the capacity for decision-making, and the knowledge about formal organizations and their economic environment. The program prepares graduates for leadership positions in a variety of managerial and organizational settings. Admission to the M.B.A. program does not require an undergraduate business degree. However, prerequisite business proficiencies are needed and can be completed quickly through accelerated foundations. Approximately one-third of the students in the program enter with no previous business course work. The program of study leading to the M.B.A. degree is a 33 semester hour program designed to provide both a general view of business and a specialized focus through the portfolio. Before beginning core classes, each student must choose an industry for their portfolio. The portfolio gives the student the opportunity to focus in-depth research in an industry selected by the student. Five of the following MBA core courses require projects that are included in the student’s portfolio.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG 6705</td>
<td>Advanced Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6406</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6026</td>
<td>Management of Information Systems and Technology</td>
<td>3</td>
</tr>
<tr>
<td>MAN 6511</td>
<td>Operations Management Problems</td>
<td>3</td>
</tr>
<tr>
<td>MAR 6815</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>

During the last semester of the M.B.A. program, the student is required to submit his or her portfolio for review by the director. An exit interview is also conducted and is a requirement for graduation. Students must have a 3.0 (B) or higher GPA to meet graduation requirements.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- performance on the Graduate Management Admissions Test (GMAT) or Graduate Record Examination (GRE), including the Analytical Writing score
- academic achievement as demonstrated by undergraduate cumulative grade point average (GPA)
- accreditation of degree granting institution
- business course academic preparation
- graduate level motivation and writing abilities as noted in essay responses
- leadership experience and potential as noted in letters of recommendation
- a record of appropriate employment at increasing levels of responsibility via résumé
- other qualifications that illuminate future MBA potential

Primary consideration will be given to the applicant’s academic record and scores on the GMAT or GRE. The credentials of applicants who do not meet minimums for these criteria are reviewed further to determine if other factors are sufficient to warrant admission. A student needing prerequisite foundation courses for the M.B.A. program may take them as a non-degree student. However, only students who have been fully admitted to candidacy in the M.B.A. program will be permitted to enroll in the required core courses of the M.B.A. degree.

Application and Advising

Inquiries should be addressed to the M.B.A. Office. The M.B.A. Office will assist in all matters of application, admission, degree planning, and graduation. All students planning to enter the M.B.A. program must meet with an advisor to develop a degree plan. Transcripts and results of the graduate admission test should be submitted to the Graduate School at the time of application. The program is administered by the M.B.A. committee, which consists of the director and faculty members from the areas of accounting, finance, marketing, economics, management, and management information systems.

In addition to the University’s general requirements, students seeking the M.B.A. degree must meet the following degree requirements.

Degree Requirements

Candidates admitted to the M.B.A. program are required to complete all courses with a “C” grade or better and maintain an overall graduate and M.B.A. GPA of 3.0 (B) or better. Core M.B.A. courses that are not compliant with the time to degree policy must be reviewed to determine proficiency. Enrollment in M.B.A. courses is generally limited to M.B.A. candidates.

Foundational Proficiencies

Admission to the M.B.A. program is gained by demonstrating proficiency in the areas of accounting, business communications, economics, finance, management, management information systems, marketing, and statistics. Accelerated MBA Foundation Courses, designed for students with no prior business course work or those who still need select prerequisites, provide a way to quickly meet the foundation proficiencies needed to begin the core program. Accelerated MBA Foundation Courses are a series of 1.5 credit hour, intensive modules that cover the essential foundational knowledge in each of the prerequisite business subjects. For more information about this option, please contact the M.B.A. Office.

Business proficiencies may also be gained by completion of the following group of UWF undergraduate courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2071</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3003</td>
<td>Principles of Economic Theory and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>or ECO 2013</td>
<td>Principles of Economics Macro</td>
<td></td>
</tr>
<tr>
<td>&amp; ECO 2023</td>
<td>and Principles of Economics Micro</td>
<td></td>
</tr>
<tr>
<td>FIN 3403</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
</tbody>
</table>
GEB 3213  Writing for Business: Theory and Practice 3
COM 4110  Business and Professional Communication 3
ISM 3011  e-Business Systems Fundamentals 3
MAC 2233  Calculus with Business Applications 3
MAN 3025  Management Fundamentals 3
MAR 3023  Marketing Fundamentals 3
STA 2023  Elements of Statistics 3

Total Hours: 33

These proficiencies may be demonstrated by satisfactory completion of equivalent courses. Courses that are not compliant with the time to degree policy must be reviewed to determine proficiency.

First Level

GEB 5878  Business Process Integration 1.5
GEB 5930  Information Resources and Industry Analysis 1.5
ACG 6309  Accounting Aspects of Business Policy Determination 3
GEB 6895  Business and Public Policy 3
ISM 6026  Management of Information Systems and Technology 3
MAN 6156  Management and Organizational Behavior 3
QMB 6305  Quantitative Methods for Business 3

Total Hours: 18

Second Level

ECP 6705  Advanced Managerial Economics 3
FIN 6406  Financial Management 3
MAN 6511  Operations Management Problems 3
MAR 6815  Marketing Management 3

Total Hours: 12

Third Level

MAN 6721  Strategic Management and Policy Formulation 3

Certificates

Graduate Business Foundations Certificate

Department: MBA
Semester Hours: 12

The University of West Florida's (UWF) Graduate Business Foundations Certificate Program offers both online and onsite business foundation courses for participants interested in developing or renewing skills and knowledge in basic business foundations. The program primarily targets working professionals with non-business undergraduate degrees who desire formal business education to support existing or anticipated responsibilities in their career tracks. The Graduate Business Foundations Certificate also provides the foundation for further graduate study in business and administration. Depending on the options chosen, a participant can complete many of the foundational courses necessary to enter the Master of Business Administration (MBA) Program or apply the courses toward the Master of Science in Administration (MSA) Program.

Program Requirements

In addition to meeting general University requirements participants must successfully complete the prescribed courses earning a grade of "C" or better in each course and a combined grade point average for all the certificate courses equal to 3.0 or better.

GEB 5870  MBA Foundations: e-Business Systems 1.5
GEB 5871  MBA Foundations: Managerial Economics 1.5
GEB 5872  MBA Foundations: Financial Management I 1.5
GEB 5873  MBA Foundations: Financial Management II 1.5
GEB 5874  MBA Foundations: Financial Management III 1.5
GEB 5875  MBA Foundations: Management Skills and Applications 1.5
GEB 5876  MBA Foundations: Marketing Management 1.5
GEB 5879  MBA Foundations: Business Analytics 1.5

Total Hours: 12

(Additional courses may be added or substituted to meet specific needs of organizations and/or programs for which the certificate is delivered under agreement with the College of Business.)

Entrepreneurship Certificate

Department: MBA
Semester Hours: 18

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 3.0 or higher for the course required by the certificate.

The certificate program engages participants in the processes necessary to convert business ideas into well-structured plans for new business ventures. Participants will develop and present new venture ideas, develop a comprehensive new venture business plan, participate in a business plan competition for financial prizes, and consult with area small businesses to develop solutions to real business problems.

Business Foundations:

GEB 5871  MBA Foundations: Managerial Economics 1.5
GEB 5872  MBA Foundations: Financial Management I 1.5
GEB 5873  MBA Foundations: Financial Management II 1.5
GEB 5874  MBA Foundations: Financial Management III 1.5
GEB 5875  MBA Foundations: Management Skills and Applications 1.5
GEB 5876  MBA Foundations: Marketing Management 1.5

Total Hours: 9

New Venture:

GEB 6118  New Ventures 3
GEB 6116  Venture Development 3
MAN 5806C  Small Business Management Consulting 3

Total Hours: 9

College Student Affairs Administration

The College Student Affairs Administration (CSAA) program is designed for those students interested in a professional career in the various college and university student affairs and student services areas. Program participants will prepare for careers involving organizational management, student development, leadership training, and administration. Guided by the Council for the Advancement of Standards in Higher Education (CAS), the curriculum includes selected foundational studies; student development theory; student characteristics and effects of college on students; individual, group, and organizational interventions; organization and administration; and assessment, evaluation, and research. The program also includes substantial supervised internship opportunities.

The master's degree in College Student Affairs Administration is a 42 hour program designed to be completed in two years. The program includes a professional core plus opportunities to choose appropriate advisor approved electives. At least six hours of internship experience is included in the professional core. Internships are available in a wide variety of student affairs and student service areas. Students are
encouraged to seek at least one internship experience away from the UWF campus.

A quality academic program is enhanced by the opportunity for pre-professional work experience. A number of students in the program will have the opportunity for significant and meaningful work responsibilities that will translate directly into powerful résumés. Various student service areas of The University of West Florida offer several compensated assistantships including: the Office of the Dean of Students, residence life facilities and programs, student union operations and management, student activities and campus programming, Greek affairs, recreation facilities and programs, orientation, admissions, academic advising, and career services.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative scores
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Submission of letter of intent describing reasons for applying to the program and associated career goals
- Submission of three letters of recommendation including one professional reference and one academic reference
- Submission of résumé
- Fit with program

Full-time students are generally admitted only for the fall semester.

Degree Requirements

To be eligible for a M.Ed. degree in College Student Affairs Administration (CSAA), a student must do the following:

- Be admitted to the program
- Submit an approved degree plan which includes at least 42 semester hours
- Successfully complete all required coursework with a grade of "C" or higher
- Complete degree requirements compliant with the time-to-degree policy
- Be recommended for graduation by the Department of Research and Advanced Studies
- Successfully complete a comprehensive exam. Information about the scheduling of the exam may be obtained from the faculty advisor.

CSAA Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDH 5040</td>
<td>The American College Student: Theories and Trends</td>
<td>3</td>
</tr>
<tr>
<td>EDH 5070</td>
<td>Assessment Issues in College Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6045</td>
<td>Theories of College Student Development</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6368</td>
<td>Multicultural Competence in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6369</td>
<td>Capstone Seminar in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6405</td>
<td>Legal Issues in Higher Education</td>
<td>3</td>
</tr>
</tbody>
</table>
Major Courses

Core Principles
COM 6207  Advanced Communication Leadership  3
COM 6525  Strategic Communication  3
Total Hours  6

Discovery Methods
COM 6312  Advanced Communication Research Methods  3
JOU 6115  Interviewing and Information Gathering  3
Total Hours  6

Strategic Applications
COM 5206  Communication Training  3
COM 6129  Assessing Organizational Dynamics  3
SPC 6646  Strategic Approaches to Presentational Speaking  3
Total Hours  9

Strategic Communication Contexts (complete a total of 12 s.h.)
COM 5025  Health Communication  3
COM 5933  Special Topics in Communication  3
COM 6024  Emerging Topics in Health Communication  1.5
COM 6210  Emerging Topics in Nonprofit Organizational Communication  1.5
COM 6511  Emerging Topics in Political Communication  1.5
COM 6625  Emerging Topics in Communication Law and Ethics  1.5
JOU 6010  Emerging Topics in Media Issues  1.5
PUR 6408  Emerging Topics in Public Affairs  1.5
Capstone
COM 6930  Organizational Communication Project  3
Total Hours  3

Certificates

Health Communication Leadership Certificate
Department: Communication Arts
Semester Hours: 12

The program is designed to help prepare students for careers in leadership positions in health care communication. The emphasis is on theory and practice of leadership in communication aspects of health care organizations.

COM 5025  Health Communication  3
COM 6207  Advanced Communication Leadership  3
COM 6024  Emerging Topics in Health Communication  1.5
Choose 4.5 semester hours from the following:
COM 6129  Assessing Organizational Dynamics  3
COM 6210  Emerging Topics in Nonprofit Organizational Communication  1.5
COM 6511  Emerging Topics in Political Communication  1.5
COM 6525  Strategic Communication  3
COM 6625  Emerging Topics in Communication Law and Ethics  1.5
JOU 6010  Emerging Topics in Media Issues  1.5
JOU 6115  Interviewing and Information Gathering  3
PUR 6408  Emerging Topics in Public Affairs  1.5
SPC 6646  Strategic Approaches to Presentational Speaking  3
Total Hours  9

Community Health Education

The M.S. in Community Health Education provides the student a choice of an Aging Studies, Health Promotion and Worksite Wellness, or Psycho-Social specialization. Electives are carefully chosen by the student in consultation with an advisor. Students completing the specialization in Aging Studies are required to complete either a thesis or an internship. A thesis or an internship is not required for the Health Promotion and Worksite Wellness or Psycho-Social specializations, but a student may have the option of completing either one.

Upon completing this degree, students will be prepared to sit for the CHES (Certified Health Education Specialist) exam. It is recommended that students in this program have current CPR certification while they pursue this graduate degree.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
  - Undergraduate cumulative GPA
  - Undergraduate Senior Year/Major GPA
  - Submission of letter of intent describing reasons for applying to the program and associated career goals
  - Submission of three Recommendation Forms
  (http://uwf.edu/msaprogram/documents/HLES_Letter_of_Recommendation_Form.pdf) (PDF)
  - Work Experience as reflected in a résumé (only for graduate assistants)

Foundational Proficiencies

Students in the Health Promotion and Worksite Wellness and the Psycho-Social specializations must have previous credit in human anatomy; physiology; or pathophysiology, general biology, and personal and community health; or the equivalent. These courses are recommended for students in the Aging Studies Specialization. Students in Health Promotion and Worksite Wellness should have an undergraduate course in exercise science.

Aging Studies Specialization

The Specialization in Aging Studies is a degree designed to prepare graduate students for professional careers in the rapidly expanding field of aging. The program addresses the needs of students from a variety of academic backgrounds. Either a thesis or an internship is required.

HLP 6535  Research Procedures  3
HLP 6595  Research Seminar  3
HSA 6521  Critical Analysis of Health  3
HSC 6037  Philosophical Foundations of Health Education  3
HSC 5602  Life, Illness and Death  3
HSC 6587  Health Education Program Planning and Evaluation  3
PET 6074  Successful Aging: Physiological Aspects  3
Advisor approved elective  3
Total Hours  24

Major Electives

Choose three of the following (consult advisor):

HLP 6905  Directed Study
HLP 6922  Field Experience
Internship or Thesis

Choose one of the following:

- HLP 6940 Internship
- HLP 6971 Thesis

Total Hours 6

Health Promotion And Worksite Wellness Specialization

HLP 6535 Research Procedures 3
HLP 6595 Research Seminar 3
HSC 5506 Advanced Epidemiology 3
HSC 6037 Philosophical Foundations of Health Education 3
HSC 6587 Health Education Program Planning and Evaluation 3

Choose 24 sh from the courses listed below with at least three courses at the 6000 level:

- APK 6111C Advanced Exercise Physiology
- HLP 6922 Field Experience
- HLP 6940 Internship
- HLP 6971 Thesis
- HSA 6521 Critical Analysis of Health
- HSC 5552 Communicable and Degenerative Diseases
- HSC 6135 Health Guidance and Cultural Competency
- HSC 6226 Current Issues in Worksite Wellness
- HSC 6576 Nutrition Across the Life Cycle
- HSC 6666 Health Education and Interactive Technology
- HSC 6667 Social Marketing in Health Education
- MAN 5116 Management of Diversity
- PET 5553 Advanced Exercise Testing and Prescription
- PET 6366C Advanced Human Nutrition and Metabolism

Total Hours 24

Psycho-Social Specialization

HLP 6535 Research Procedures 3
HLP 6595 Research Seminar 3
HSC 5506 Advanced Epidemiology 3
HSC 6037 Philosophical Foundations of Health Education 3
HSC 6587 Health Education Program Planning and Evaluation 3

Choose 24 sh from the courses listed below with at least three courses at the 6000 level:

- EAB 5705 Advanced Behavior Modification
- EAB 5738 Behavioral Medicine
- HLP 6922 Field Experience
- HLP 6940 Internship
- HLP 6971 Thesis
- HSA 6521 Critical Analysis of Health
- HSC 5552 Communicable and Degenerative Diseases
- HSC 6135 Health Guidance and Cultural Competency
- HSC 6206 Community Health Delivery Systems
- HSC 6226 Current Issues in Worksite Wellness
- HSC 6576 Nutrition Across the Life Cycle
- HSC 6666 Health Education and Interactive Technology
- HSC 6667 Social Marketing in Health Education
- PHC 5102 Public Health
- PHC 5410 Social and Behavioral Sciences in Public Health
- PCO 6216 Theories of Individual Counseling

Total Hours 24

Computer Science

The Computer Science Department offers three specializations for the master of science: Computer Science (CS), Database Systems (DB), and Software Engineering (SE).

Numerous local and regional companies and governmental agencies employ computer science students in cooperative education programs (co-op).

The department annually awards several scholarships, fellowships, and out-of-state tuition waivers to new and returning students. The department also has limited opportunities for teaching/research assistantships for new and returning students. Please see the departmental website for additional information.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - DB and SE applicants may alternatively submit the Graduate Management Admission Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant's motivation for pursuit of a Master of Science degree, extent of related work experience in the field, and future goals related to the attainment of a M.S. degree described in a letter of intent written by the applicant
- Indication of the applicant's ability as reflected in three letters of recommendation from individuals who can evaluate an applicant's academic potential to succeed in a graduate program

Computer Science Specialization

Students entering the Computer Science specialization normally have an undergraduate degree in Computer Science but may come from another scientific discipline. A graduate of this specialization is a software and hardware specialist with a deep understanding of the nature of algorithms in terms of expression, development, resource usage, and limitations. Students are prepared to develop software at any level of abstraction, from machine code to distributed processes and for a career as a programmer or advanced software developer and may consider continuing on to doctoral studies. All courses must be completed with a grade of "C" or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDA 6415</td>
<td>Advanced Computer Systems</td>
<td>4</td>
</tr>
<tr>
<td>COP 6025</td>
<td>Advanced Programming Languages</td>
<td>4</td>
</tr>
<tr>
<td>6000 level advisor approved elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in two consecutive semesters)</td>
<td>32</td>
</tr>
</tbody>
</table>
Database Systems Specialization

Students entering the Database Systems specialization may have an undergraduate degree in CS or CIS but may also come from another discipline. A graduate of this specialization is a database specialist, prepared to plan, configure, implement and maintain large database systems. He/she will have significant programming as well as database programming skills, and may also be familiar with a specific problem domain, for example, developing and working with medical databases, biological databases, chemical databases, etc. He/she will also be able to identify and utilize tools to be able to work with the vast amounts of information provided by large data groups. Graduates of this specialization may consider continuing on to doctoral studies. All courses must be completed with a grade of "C" or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6095</td>
<td>Software Engineering Practice and Tools</td>
<td>4</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
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<td>6</td>
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<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in consecutive semesters)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 32

Software Engineering Specialization

Students entering the Software Engineering specialization may have an undergraduate degree in CS or CIS but may also come from another discipline. A graduate of this specialization is a system specialist, prepared to perform various activities within a software life-cycle such as requirements analysis, design, implementation, testing, maintenance, project management, process improvement, quality assurance, etc. in support of the development of high-quality software systems that meet client needs. He/she may also be deeply familiar with a specific problem domain (e.g. medical software, chemistry, data acquisition systems, computer games) and with software development issues associated with that domain. Graduates are also prepared to continue on to doctoral studies.

Representative electives for Software Engineering students include courses regarding Software Specifications, Software Design, Software Testing and Verification, Capability Maturity Model Integration (CMMI) in Software Engineering, Data Mining, and Database Administration. All courses must be completed with a grade of "C" or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6064</td>
<td>Software Design</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6095</td>
<td>Software Engineering Practice and Tools</td>
<td>4</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
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<td>6</td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in consecutive semesters)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 30

Certificates

Database Systems Certificate

Department: Computer Science

Method of Instruction: Online

Semester Hours: 12

This certificate program is designed to provide both theory and practical knowledge in database design, development and implementation, advanced database concepts, database administration, as well as data mining. In-depth practice in the use of Structure Query Language (SQL) will also be provided. It will prepare one to be a database professional, or work in any other information system career in which knowledge of capturing, storing, retrieving, organizing, and analyzing information is important. The departmental certificate application, available on the Computer Science website, should be submitted before the drop/add period of the semester of completion. All courses must have been completed within 5 years of receipt of application with a grade of "C" or better.

Choose one of the following Programming prerequisites:

- COP 5007 Software Engineering Foundations: Java Programming
- COP 2253 Programming Using Java
- COP 2334 Programming Using C++
- CGS 3464 Programming Using Visual Basic for Non-Majors

Required course:

- COP 5725 Database Systems

Choose two of the following electives:

- COP 6727 Advanced Database Systems
- CAP 5771 Data Mining
- COP 5775 Database Administration

Total Hours: 12

Criminal Justice

The purpose of the program is to prepare students for careers in federal, state, county, and local criminal justice agencies, including management and administration; careers in public or private criminal justice research and analysis; teaching positions at community and state colleges; and/or continued education at the doctoral level.

The Master of Science in Criminal Justice (MSCJ) has two options: a coursework option (Option 1) and an area research paper option (Option 2). Each option requires a minimum of 33 credit hours, including 24 credit hours of criminal justice coursework. The coursework-only option (Option 1) requires 15 credit hours of required coursework plus an additional 9 credit hours minimum of criminal justice electives and 9 credit hours of criminal justice or non-criminal justice electives. The area research paper option (Option 2) requires 15 credit hours of required coursework plus an additional 9 credit hours of criminal justice electives, a 3-credit hour paper completed in consultation with a faculty advisor and 6 additional credit hours in either criminal justice or non-criminal justice electives.

The program also offers four optional concentrations from which students may choose: Social Work; Public Administration; Education; and Homeland Security. Social Work, Public Administration, and Education concentrations are completed using the nine hours of graduate-level unrestricted electives in the concentration field. The Homeland Security Concentration is completed using the nine hours of unrestricted electives and three hours of criminal justice electives in designated graduate-level Homeland Security classes. The concentrations allow the students in the program to more specifically tailor the degree to their academic and career interests.

An accelerated bachelor's to master's program is available for exceptionally well qualified students. Please see the requirements for
this program in the Undergraduate Criminal Justice Program (http://catalog.uwf.edu/undergraduate/criminaljustice).

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Academic preparation as demonstrated by quality and relevance of undergraduate degree major
- Submission of a personal statement written by the applicant, which outlines his/her future career goals in criminal justice and how the degree will help them to achieve the goals. Additional contents of the statement include the applicant’s academic preparation, work history, volunteer experience, activities, and honors or awards received.
- Submission of three letters of recommendation from individuals familiar with the applicant’s ability to succeed in a graduate program. At least two of the letters should be from former professors.

**Degree Requirements**

A grade of ‘B’ or better is required for each core course.

**Major Courses**

<table>
<thead>
<tr>
<th>Criminal Justice Required Core</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5006 Criminal Justice Administration</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 5008 Criminal Justice Theory</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6061 Criminological Theory</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6704 Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6705 Analysis of Quantitative and Qualitative Data</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following options: 18

**Option 1**

- Three CCJ Electives
- Three Unrestricted Electives

**Option 2**

- CCJ 6910 Criminal Justice Area Paper
- Three CCJ Electives
- Two Unrestricted Electives

**Curriculum and Instruction**

The Curriculum and Instruction Comprehensive Master's Program is part of the National Council for Accreditation of Teacher Education (NCATE) accredited Professional Education Unit but is not an initial certification program. Although students earning the M.Ed. in Curriculum and Instruction may complete courses in more than one specialization, only one degree will be awarded. For specializations in Elementary Education Comprehensive, Middle Level Education Comprehensive, Primary Education Comprehensive, and Secondary Education Comprehensive, students will also choose a cognate area in conjunction with an advisor. The M.Ed. in Curriculum and Instruction offers eight pre-approved cognates: Primary; Elementary; Middle-level; Secondary; Career & Technical; Instructional Technology; ESOL; and Reading Endorsement. Course requirements for each cognate are listed below. Students enrolled in the Educational Professional and Reading Instruction specializations will not choose a cognate but will complete the coursework listed below for each specialization.

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues.

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for provisional admission:

- Hold or be seeking professional teaching certification*
- Have earned a GPA of at least 3.0 on bachelor's degree**
- Submit a current (within five years) official Graduate Record Exam (GRE) scores OR Miller Analogies Test (MAT) score
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references

To be fully admitted to the program, the following requirements must be met in addition to the requirements for provisional admission (above). Full admission is required by the fifth week of the first semester. Students will be unable to register for a second semester of coursework until full admission has been granted.

- Purchase and activation of a subscription to the School of Education's assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20

* Applicants pursuing the Primary Education specialization and planning to work in an agency setting rather than teach are not required to hold or be seeking current professional teacher certification. In addition, applicants to the Educational Professional specialization are not required to hold teacher certification but must meet the FLDOE subject area requirements (http://www.fldoe.org/edcert/subjlist.asp) for certification in middle or secondary English, math, science, or social sciences.

** Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program.

All approvals for admission to the School of Education are subject to reevaluation as students progress through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered
support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

A grade of C or better is required for all coursework to be applied to the degree program.

**Educational Professional**

The Educational Professional (EDPRO) master’s program is a Florida Department of Education approved Professional Training Option (PTO). The emphasis of EDPRO is to provide non-education majors seeking to teach in middle or secondary schools with the necessary requirements to apply for a Temporary Teaching Certificate in Florida. (A Temporary Teaching Certificate enables educators to complete the Professional Certificate requirements while teaching full time.) Students who wish to teach outside the state of Florida need to communicate directly with the DOE in their respective states.

**Elementary Education Comprehensive Specialization**

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in elementary education. An action research project is required as the capstone experience of the program. While students may use the course work completed to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine the specific requirements for teacher certification.

**School of Education Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6521</td>
<td>Practical Applications and Issues in Classroom Management: Elementary Education</td>
<td>3</td>
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**Educational Investigative Sequence**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6482</td>
<td>Research Practicum (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6911</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Cognate Coursework**

Students must complete at least 15 semester hours of coursework in an approved cognate. There are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education. See the cognate list at the bottom of the page for pre-approved cognates.

**Middle Level Education Comprehensive Specialization**

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in middle level education. An action research project is required as the capstone experience of the program. While students may use the course work completed to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine the specific requirements for teacher certification.

**Required Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social</td>
<td>3</td>
</tr>
<tr>
<td>EDM 6411</td>
<td>Practical Applications and Issues in Classroom Management: Middle Level Education</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>9</td>
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</table>

**Educational Investigative Sequence**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
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</tr>
<tr>
<td>EDM 6912</td>
<td>Research Practicum (should be taken during the second-to-last semester)</td>
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</tr>
<tr>
<td>EDM 6911</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Cognate Coursework**

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**Primary Education Comprehensive Specialization**

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in primary education. An action research project is required as the capstone experience of the program. While students may use the course work completed to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine the specific requirements for teacher certification.

**Required Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social</td>
<td>3</td>
</tr>
<tr>
<td>EDM 6411</td>
<td>Practical Applications and Issues in Classroom Management: Elementary Education</td>
<td>3</td>
</tr>
</tbody>
</table>
Consultants as reading teachers, reading coaches, and publishing industry advanced reading instruction skills and to prepare educators. This program is designed to provide classroom teachers with research courses (18 semester hours) along with six specific reading and the service region. The core consists of six pedagogical and selected reading courses designed to meet the needs of our students.

The Reading Instruction Curriculum and Instruction Comprehensive Master’s Program consists of a set of core classes and carefully determined the specific requirements for teacher certification. Students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine the specific requirements for teacher certification.

Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
<td>3</td>
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<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>ESE 6343</td>
<td>Practical Applications and Issues in Classroom Management: Secondary Education</td>
<td>3</td>
</tr>
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Total Hours 12

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
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<td>EDE 6482</td>
<td>Research Practicum (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6911</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9

Cognate Coursework

Students must complete at least 15 semester hours of coursework in an approved cognate. Students in the Primary Specialization are required to complete the Primary Education Cognate which may qualify completers for the Pre-K Disabilities Endorsement and/or Infant Toddler Developmental Specialist Credential. See the cognate list for courses associated with the Primary Education Cognate.

Reading Instruction

The Reading Instruction Curriculum and Instruction Comprehensive Master’s Degree is an innovative, educational program that links literacy research to practical classroom practices. This 36-semester hour program is offered online, nationwide as an advanced degree program for teachers. The curriculum for the program is based on the International Reading Association standards which also encompass the Florida Department of Education Reading Endorsement competencies.

The Reading Instruction Curriculum and Instruction Comprehensive Master’s Program is part of the NCATE accredited Professional Education Unit, and is designed to develop master teachers who will be prepared for instructional and leadership roles. While this program is not an initial teacher certification program, students may use the course work completed to apply for initial teacher certification.

Students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine the specific requirements for teacher certification.

An action research project is required as the capstone experience of the program. The Reading Instruction Curriculum and Instruction Comprehensive Master’s Program consists of a set of core classes and carefully selected reading courses designed to meet the needs of our students and the service region. The core consists of six pedagogical and research courses (18 semester hours) along with six specific reading courses.

This program is designed to provide classroom teachers with advanced reading instruction skills and to prepare educators as reading teachers, reading coaches, and publishing industry consultants.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6001</td>
<td>Integrating Curriculum for K-12</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>RED 5515</td>
<td>Classroom Reading Assessments</td>
<td>3</td>
</tr>
</tbody>
</table>

RED 6060    Foundations of Middle and Secondary Literacy    3
RED 6116    Foundations of Early Literacy    3
RED 6240    Differentiating Instruction    3
RED 6866    Practicum in the Clinical Teaching of Reading    3
RED 6911    Action Research: Reading    3
Advisor approved elective    3
RED 6546    Identifying and Preventing Reading Difficulties    3

Total Hours 36

Secondary Education Comprehensive Specialization

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in secondary education. An action research project is required as the capstone experience of the program. While students may use the course work completed to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine the specific requirements for teacher certification.

Required Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
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<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>ESE 6343</td>
<td>Practical Applications and Issues in Classroom Management: Secondary Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>ESE 6421</td>
<td>Research Practicum (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>ESE 6426</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
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</table>

Total Hours 9

Cognate Coursework

Students must complete at least 15 semester hours of coursework in an approved cognate. There are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education. See the cognate list at the bottom of the page for pre-approved cognates.

Cognate List

Students in the Elementary Education Comprehensive, Middle Level Education Comprehensive, Primary Education Comprehensive, and Secondary Education Comprehensive Specializations must complete at least 15 hours of coursework in an approved cognate. The following are pre-approved cognates, but additional cognates may be approved by the director.

Career and Technical Cognate

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECT 5266</td>
<td>Administration and Supervision of Career and Technical Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECT 5295</td>
<td>Curriculum and Staff Development for Career and Technical Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECW 5265</td>
<td>Coordination and Management of Cooperative Career and Technical Education Program</td>
<td>3</td>
</tr>
</tbody>
</table>
ECW 6561  Selection and Guidance of Career and Technical Studies  3
Choose one of the following:  3
ECT 6669  Trends and Issues in Career and Technical Education
ECW 6685  School Involvement and Community Relations

Total Hours 15

**Elementary Education Cognate**

EDE 6206  Integrated Curriculum and Instruction/Elementary Education  3
Choose four from the following:  12
EME 6316C  Instructional Management and Technology
LAE 5345  Teaching Pupils to be Effective Writers
LAE 5468  Literature for Children and Young Adults
MAE 6115C  Teaching Mathematics in Elementary Education
RED 6116  Foundations of Early Literacy
SCE 6017  Science Instruction in the Elementary School
TSL 5085  ESOL Principles and Practices
Advisor approved elective

Total Hours 15

**Instructional Technology Cognate**

EME 5355  Instructional Design for HPT  1.5
EME 6316C  Instructional Management and Technology  3
EME 6358  Evaluation for MSA Professionals  1.5
EME 6408  Integrated Technology Learning Environments  3
EME 6414C  Web-Based Instructional Tools for Educators  3
EME 6415  Digital Video for Instruction  3
EME 6946  Field Experiences in Instructional and Performance Technology (Will replace Action Research in the core)  3

Total Hours 18

**Middle Level Education Cognate**

EDM 6235  Integrated Curriculum and Instruction/Middle Level Education  3
Choose four from the following:  12
EME 6316C  Instructional Management and Technology
LAE 5468  Literature for Children and Young Adults
MAE 5658  Mathematics for the 21st Century
MAE 6361  Teaching Mathematics in Middle Level and Secondary Education
RED 6116  Foundations of Early Literacy
SCE 6265  Science Instruction in the Middle and Secondary School
SSE 6326  Teaching Social Studies in Middle and Secondary Level Education
TSL 5085  ESOL Principles and Practices
Advisor approved elective

Total Hours 15

**Primary Education Cognate**

EEC 6263  Integrated Curriculum Development and Instruction/Early Childhood Education  3
EEX 6205  Typical and Atypical Development (Birth-5)  3
EEX 6455  Program Development for PreK Disabilities  3
EEX 6707  Assessment for Early Intervention for PreK Disabilities  3
EEX 6732  Parent-Teacher Team and Agencies for PreK Disabilities  3

Total Hours 15

**Reading Endorsement Cognate**

The School of Education offers 15 semester hours of online graduate coursework approved by the Florida Department of Education (FDOE) for the Florida Reading Endorsement. Upon completion of the coursework, one may apply to the FDOE to have the endorsement added to a current teaching certificate.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EED 6541</td>
<td>3</td>
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<tr>
<td>EED 6545</td>
<td>3</td>
</tr>
<tr>
<td>EED 6546</td>
<td>3</td>
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<tr>
<td>EED 6547</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6707</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6732</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

**Secondary Education Cognate**

ESE 6217  Integrated Curriculum and Instruction/Secondary Education  3
Choose four from the following:  12
EME 6316C  Instructional Management and Technology
LAE 5468  Literature for Children and Young Adults
MAE 5658  Mathematics for the 21st Century
MAE 6361  Teaching Mathematics in Middle Level and Secondary Education
RED 6116  Foundations of Early Literacy
SCE 6265  Science Instruction in the Middle and Secondary School
SSE 6326  Teaching Social Studies in Middle and Secondary Level Education
TSL 5085  ESOL Principles and Practices
Advisor Approved Elective

Total Hours 15

**ESOL Cognate**

TSL 5142  ESOL Curriculum and Materials Development  3
TSL 5250  Applied Linguistics  3
TSL 5345  Methods of Teaching ESOL  3
TSL 5440  Testing and Evaluation  3
TSL 5525  Cross Cultural Communication and Understanding  3

Total Hours 15

**Certificates**

**Teacher Ready Certificate**

Department: Teacher Education

Method of Instruction: Online

Semester Hours: 12 (accepted into UWF’s C&I Master’s Program)

Tuition & Fees: $4500.00/$4800.00 Effective October 1, 2014 (Tuition only, no fees)

Contact: teacherready.org (http://www.teacherready.org)

TeacherReady® is a 9-month online teacher certification program that leads to a Florida Professional Teaching Certificate upon completion. TeacherReady® is state approved and is the Educator Preparation Institute of the NCATE accredited Professional Education Unit at the University of West Florida. This revolutionary program includes eight lessons focusing on educational pedagogy and field experiences allowing for flexibility in scheduling, participation, and completion. TeacherReady® serves students worldwide creating teachers of excellence for tomorrow’s classrooms.

Lesson 1: Managing and Engaging Students to Learn
Lesson 2: Alignment of Common Core Standards and Learning Targets
Lesson 3: Learning Tasks and Feedback Strategies
Lesson 4: Summative Assessment Tools
Lesson 5: Student Engagement with Special Populations
Lesson 6: Student Engagement and Literacy
Lesson 7: Student Engagement and STEM
Lesson 8: Culminating Field Experience

Educational Leadership

Educational Leadership Certification Specialization

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building 86, Room 126</td>
<td>(850) 474-2745</td>
<td>uwf.edu/education/ect</td>
<td><a href="mailto:soegrad@uwf.edu">soegrad@uwf.edu</a></td>
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</table>

ETMS Specialization

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
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</thead>
<tbody>
<tr>
<td>Building 70, Room 143</td>
<td>(850) 474-2300</td>
<td>uwf.edu/ect</td>
<td><a href="mailto:ect@uwf.edu">ect@uwf.edu</a></td>
</tr>
</tbody>
</table>

Admission Requirements for Certification Specialization

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for provisional admission:

- Hold or be seeking professional teaching certification
- Have earned a GPA of at least 3.0 on bachelor’s degree*
- Submit a current (within five years) official Graduate Record Exam (GRE) scores OR Miller Analogies Test (MAT) score
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references
- Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program. Specific academic requirements will be established by the School of Education and monitored by the Graduate School (see Conditional Admission requirements will be established by the School of Education and monitored by the Graduate School (see Conditional Admission (p. 9) in the Admissions section (p. 9) of the catalog).

To be fully admitted to the program, the following requirements must be met in addition to the requirements for provisional admission (above). **Full admission is required by the fifth week of the first semester.** Students will be unable to register for a second semester of coursework until full admission has been granted.

- Purchase and activation of a subscription to the School of Education’s assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20

All approvals for admission to the School of Education are subject to reevaluation as students progress through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

**Admission Requirements for ETMS Specialization**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA or undergraduate last 60 semester hour GPA
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Academic preparation
- Department review

**Degree Requirements**

In addition to general University requirements, students seeking the M.Ed. in Educational Leadership must meet the requirements listed below.

- Be admitted to the program
- Complete degree requirements compliant with the time-to-degree policy
- Be recommended for graduation by the Department
- Successfully complete any additional requirements of the selected specialization

**Educational Leadership Certification Specialization**

The Educational Leadership Certification Specialization, approved by the Florida Department of Education, is designed for students who wish to prepare for administrative and supervisory positions such as principal, assistant principal, district supervisor, in-service director, curriculum developer, or dean in public and private elementary and secondary schools. The specialization covers the ten Florida Principal Leadership Standards and associated competencies and seeks to prepare students for the Florida Educational Leadership Exam (FELE). Passing scores on the FELE are required prior to graduation.

Students in the Educational Leadership Certification Specialization who do not hold current professional teacher certification must meet the following additional requirements:

- ESOL/ELL Requirement. Options for satisfying this requirement include:
  - Sixty hours of ESOL district inservice points; or
  - Three credit hours in a survey course, which can be satisfied by completing TSL 5085
- Florida Reading Competency 2

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues.
Major Requirements
A grade of C or better is required for all coursework to be applied to the degree program.

EDA 5191  Leadership in Education: School Improvement Theory and Practice  3
EDA 6063  Introduction to Educational Leadership  3
EDA 6222  Administration of School Personnel  3
EDA 6232  Law and Education  3
EDA 6240  Introduction to School Finance  3
EDA 6503  The Principalship  3
EME 6317  Instructional Technology for Educational Leaders  3
EDF 6460  Foundations of Measurement  3
EDG 5250  Principles of Curriculum Development  3
EDG 6285  Data Driven Decisions Using Standardized Student Achievement Data  3
Elective (with adviser approval)  3

Total Hours  33

Education & Training Management Specialization (ETMS)
The 36 semester hour specialization is designed for military officers and others interested in working in training in the military, business, and industry. It is offered through an inter-institutional agreement with George Mason University, George Washington University, University of Memphis, Old Dominion University, San Diego State University, and the University of Rhode Island. Interested individuals should contact the Department of Applied Science, Technology and Administration or the educational officer at their base for the competency areas and designated courses offered through UWF.

Students must complete either an action research project, thesis, or take a comprehensive exam and additional course work to reach 36 hours of credit.

Students and advisors must select courses with care to ensure that
1. prerequisite requirements are met and
2. a minimum of 15 sh at the 6000-level or above are completed.

No more than 49% of the program requirements for the degree may be taken in traditional business subjects.

Students not seeking the Navy’s ETMS certification should contact their advisor if other electives are desired.

Choose one course in each of the following ten areas (30 sh)

Basic Management Principles
Choose one of the following:
EME 6426  HPT Interventions  3
GEB 5875  MBA Foundations: Management Skills and Applications  1.5
PAD 5107  Modern Public Organization Theory  3
PAD 5434  Leadership  3
PAD 6053  Public Administration Professional  3

Education and Training Organization/Operation
Choose one of the following:
EDA 5191  Leadership in Education: School Improvement Theory and Practice  3
EME 6409  Distance Learning Implementation  3
EME 6427  Implementing HPT Interventions  3
GEB 5870  MBA Foundations: e-Business Systems  1.5
Advisor approved course  1.5

Planning, Programming, Statistical, and Budgeting Systems
Choose one of the following:
EME 6628  Contract Administration: Large Scale Instructional Technology Systems  3
PAD 6227  Public Budgeting  3

Principles and Applications of Instructional Systems Development
Choose one of the following:
EDG 5250  Principles of Curriculum Development  3
EDG 5332  Principles of Instructional Design & Product Development  3
EME 5355  Instructional Design for HPT  1.5
EME 6415  Digital Video for Instruction  3

Personnel/Manpower Management
Choose one of the following:
EDA 5191  Leadership in Education: School Improvement Theory and Practice  3
EDA 6222  Administration of School Personnel  2-3
MAN 6156  Management and Organizational Behavior  3
PAD 6417  Public Service Human Resource Management  3

Education/Training Psychology
Choose one of the following:
EDF 6216  Psychological Foundations for Education: Learning and Instruction  3
EME 6936  Seminar in PT Issues: Special Topics  1.5
Advisor approved course:  1.5

Education/Training Research and Development Processes, Policies, and Procedures
Choose one of the following:
EDF 6481  Educational Research  3
EME 6428  Evaluating HPT Interventions  3
PAD 6706  Public Administration Research Methods
or EME 6357  Instrument Design for Performance Technology
& EME 6358  Evaluation for MSA Professionals

Application of Computer and Web-Based Technology to Education
Choose one of the following:
EME 6316C  Instructional Management and Technology  3
EME 6314  Technology for Leaders  3
EME 6415  Digital Video for Instruction  3
EME 6458  Distance Learning Policy and Planning  3

Contract Administration
Choose one of the following:
PAD 5605  Administrative Law  3
PAD 6275  Political Economy of Public Administration  3

Existing and Conceptual Systems
Choose one of the following:
EDA 6061  Educational Organization and Administration  3
EDG 6335  Advanced Instructional Design & Product Development  3
EME 6408  Integrated Technology Learning Environments  3
EME 6428  Evaluating HPT Interventions  3

Thesis, Action Research, or Additional Course Work & Comprehensive Exam (6 sh)
Choose one of the following:
Thesis in area concentration
Additional courses AND Comprehensive Examination
Action Research in area concentration
English

The Master of Arts in English program at UWF is home to a vibrant community of scholars and creative writers who are passionate about the study of literature, discourse, and print culture. The degree offers an opportunity to work closely with faculty mentors and to pursue individual research interests. Small class sizes (strictly limited to 20 students) are the norm.

Graduates of the M.A. program in English are highly successful writers, speakers, presenters, leaders, and educators who possess excellent analytical and communication skills. The M.A. in English can help advance the career goals of students who are interested in:

- developing critical thinking and writing skills to enhance any profession
- publishing
- editing
- creative writing
- not-for-profit administration
- establishing teaching credentials for private and public education
- pursuing the Ph.D. in English
- training, technical writing
- journalism

Some students may also wish to pursue the degree for purely philosophical reasons. The study of literature provides exposure to the world of ideas and the aesthetics of the written and printed word. Courses in the program cover both canonical and non-canonical works of fiction and nonfiction. Courses also provide broad exposure to texts from a wide range of historical periods and cultures. Students interested in the program are welcome to visit the department and meet with faculty to discuss individual research interests and career goals.

Admission Requirements

In addition to the University graduate admission requirements described in the Admission section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 153 and Analytical Writing score of at least 4.5 or equivalent
  - Miller Analogies Test (MAT) scaled score of at least 413
- Minimum of 20 semester hours of undergraduate work in English at the junior/senior level
- Submission of two-page statement of purpose
- Submission of three letters of recommendation from former instructors
- Submission of a writing sample (at least 2500 words of literary analysis for those interested in literary study or 2500 words of fiction/non-fiction prose or 10 poems for those interested in the creative writing program)

All students applying for graduate admission will be considered for scholarship, fellowship, and assistantship opportunities.

Students who meet other requirements, but lack some of the required undergraduate preparation, may be granted provisional admission to the M.A. program. All students admitted provisionally must satisfactorily complete specific requirements stipulated by the departmental graduate committee before full admission.

Degree Requirements

The M.A. in English is a program of advanced study of English language and literature. There is both a thesis and a non-thesis track to the completion of an M.A. in English. In addition to the general University requirements, students seeking an M.A. in English in both the thesis and a non-thesis track must meet the following requirements. The M.A. in English requires a minimum of 33 semester hours of course work, 18 semester hours of which must be in courses at the 6000 level. Students completing 18 semester hours of course work at the 6000 level with a grade point average of 3.5 or above are eligible for the thesis track. Students lacking the grade point average minimum may petition the chair of the department to be allowed to pursue the thesis track. Students petitioning the department chair for entrance to the thesis track are required to have a letter of support from a member of the graduate faculty in the Department of English and Foreign Languages. After they have completed 30 semester hours of graduate level work, M.A. candidates in the thesis track are required to begin the thesis process by registering for ENG 6971 Thesis. After they have completed 30 semester hours of graduate level work, M.A. candidates in the non-thesis track must complete an additional six semester hours of course work.

At the time of admission, students will indicate their choice of a program specializing either in literature or in creative writing and, after 18 semester hours of coursework at the 6000 level, declare whether they intend to pursue the thesis or the non-thesis track. Topics courses with different areas of emphasis may be repeated for a maximum of nine semester hours of credit with the permission of the graduate advisor.

Before graduation, students must satisfactorily complete the required 30 semester hours of course work. Students in the thesis track must also complete 3 semester hours of thesis. Students in the non-thesis track must complete an additional six semester hours of course work.

Students in both the thesis and non-thesis tracks must demonstrate reading competency in one foreign language. This competency may be demonstrated in one of two ways:

1) Students pass a reading knowledge examination designed and administered by the department. Such an exam would ask students to demonstrate a clear understanding of a page from a text in a language other than English in two hours. Those taking the examination would be able to use an English/X dictionary.

2) Students unable to pass the reading knowledge examination would then have the option to fulfill the reading knowledge requirement by taking a course focused on reading knowledge in a language other than English at UWF. Students must complete the course with a grade of “B” or higher to complete the reading knowledge requirement.

American Sign Language, Old English, and ancient Greek would not be acceptable languages to meet this requirement. Foreign language credits cannot be used to
fulfill M.A. degree requirements.

**Creative Writing Specialization**

**Graduate English Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 5009</td>
<td>Introduction to Advanced Literary Study</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6018</td>
<td>History of Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
<td>3-6</td>
</tr>
<tr>
<td>Advisor approved electives (6 sh required)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 6971</td>
<td>Thesis (By approval only. Course offered 1-6 sh per semester; 3 sh required)</td>
<td></td>
</tr>
</tbody>
</table>

Choose four from the following:

- CRW 6130 Workshop in Fiction Writing
- CRW 6236 Workshop in Creative Non-Fiction Writing
- CRW 6331 Workshop in Poetry Writing
- CRW 6806 Workshop in Teaching Creative Writing
- CRW 6934 Special Topics in Creative Writing

Choose 12 sh from three of the following four blocks:

**BLOCK I**

- ENL 6297 Topics in British Literature to the Romantics

**BLOCK II**

- ENL 6298 Topics in British Literature from the Romantics to Present

**BLOCK III**

- AML 6455 Topics in American Literature

**BLOCK IV**

- ENC 5945 English Internship
- LIT 5018 Topics in Fiction
- LIT 5037 Topics in Poetry
- LIT 5047 Topics in Drama
- LIT 5105 Topics in World Literature

Total Hours: 33-36

**Literature Specialization**

**Graduate English Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 5009</td>
<td>Introduction to Advanced Literary Study</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6018</td>
<td>History of Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6019</td>
<td>Topics in Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENL 6297</td>
<td>Topics in British Literature to the Romantics</td>
<td>3</td>
</tr>
<tr>
<td>ENL 6298</td>
<td>Topics in British Literature from the Romantics to Present</td>
<td>3</td>
</tr>
<tr>
<td>AML 6455</td>
<td>Topics in American Literature</td>
<td>3</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
<td>3-6</td>
</tr>
<tr>
<td>Advisor approved electives (6 sh required)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 6971</td>
<td>Thesis (By approval only. Course offered 1-6 sh per semester; 3 sh required)</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following:

- CRW 6130 Workshop in Fiction Writing
- CRW 6236 Workshop in Creative Non-Fiction Writing
- CRW 6331 Workshop in Poetry Writing
- CRW 6806 Workshop in Teaching Creative Writing
- CRW 6934 Special Topics in Creative Writing
- LIT 5018 Topics in Fiction
- LIT 5037 Topics in Poetry
- LIT 5047 Topics in Drama
- LIT 5105 Topics in World Literature

5000/6000 level English electives

Total Hours: 33-36

**Environmental Science**

The M.S. in Environmental Science provides advanced research and educational opportunities in the earth and environmental sciences.

Departmental areas of concentration include coastal science, paleoclimatology, landscape ecology, geographic information science, aquatic biogeochemistry, and soils science. The program includes both thesis and non-thesis tracks. The non-thesis track provides a foundation for employment in the private and public sectors of the environmental fields. In addition, the thesis track prepares students for advanced study leading to the doctoral degree. Contact the department for information regarding the graduate certificate in Geographic Information Systems (GIS).

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- A Graduate Record Examination (GRE) **verbal score at or above the 50th percentile** and a **quantitative score at or above the 40th percentile**
- Submission of a formal letter of interest, background, and professional goals
- Submission of three letters of recommendation by individuals in professionally relevant fields (waived for graduates of the UWF Department of Environmental Studies)
- Submission of current curriculum vitae (CV)/résumé
- Completion of the Foundational Proficiencies as a condition of admission to the program

In addition to general University requirements, students seeking the M.S. in Environmental Science must meet the requirements listed below.

**Foundational Proficiencies**

- A college-level course in chemistry
- Two upper-level science courses in the geo-, earth, or environmental sciences
- Two upper-level techniques courses (e.g., GIS, aerial photo interpretation, remote sensing, field methods, analytical chemistry, instrumental analysis, etc.)
- An upper-level course in statistics or quantitative methods

Students without the equivalents of any of the above courses will be advised to enroll in a suite of appropriate foundational courses prior to being considered for admittance to the M.S. program. Students having some of the foundational proficiencies may be admitted to the M.S. program with the understanding that the missing courses be taken during the first year of graduate study.

Of the foundational proficiencies, only statistics (GEO 5165 Geostatistics or STA 5176 Statistical Modeling) may be taken for graduate credit and be included in the graduate program of study.

**Degree Requirements**

Students accepted into the M.S. program should select, ideally by the end of their first semester, their graduate advisor and graduate committee members. At least two committee members must be Environmental Studies faculty. Students also need to select the thesis or non-thesis track following consultation with their graduate advisor and committee. Detailed graduate guidelines will be provided to the students by the department.
Environmental Science Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 6930</td>
<td>Special Topics in Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6906</td>
<td>Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>EVS 6196C</td>
<td>Sampling and Analysis in Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

- EVS 6971 Thesis (Course offered 1-6 sh per semester) 1-6
- Advisor-approved course work 15-20
- Total hours 21

Non-Thesis Track

The non-thesis track entails a total of 36 sh (including the courses in the Environmental Science core), of which 15 must be at the 6000 level and may include up to 3 sh of internship. The remaining hours must be at the 5000 level or higher. As many as three courses may be from outside the department, including two from outside the University. The detailed program of study will be determined by the graduate advisor in consultation with the student and the student’s graduate committee.

- GEO 6118 Research Design 3
- Choose one of the following: 3
  - EVS 6940 Internship
  - GEO 6905 Directed Study
- Advisor-approved graduate course work 21
- Total Hours 27

Certificates

Graduate Certificate in GIS

Department: Environmental Science

Semester Hours: 12

This certificate program is designed to teach students and working professionals both the highly in-demand technical skill of using industry-standard geospatial software as well as a strong conceptual foundation in Geographic Information Science necessary for advanced analyst and manager roles. Graduate level courses focus on project development and management relating to various applications. The program represents the latest technologies that are revolutionizing many disciplines, including geography, environmental sciences, archaeology, business, defense and intelligence, and public health/safety in the information age. Required courses and GIS internship have been carefully combined to reflect the real-world requirements needed for careers in the geospatial sciences. Students may choose between face-to-face (Pensacola campus) and online courses by applying to one of the two program offerings: GIS Graduate Certificate (http://uwf.edu/gis/grad_cert) and Online GIS Graduate Certificate programs.

Two specializations are available under the Online GIS Graduate Certificate program: Traditional GIS and Archaeology for GIS. Six semester hours are devoted to each specialization. See the Course Catalog for course descriptions.

Students who successfully complete the 12-credit program (including pre-requisites) with a 3.0 overall GPA will be awarded a Graduate Certificate in Geographic Information Science. Graduate Certificate courses count towards the Master of Science in Administration, GIS (http://uwf.edu/msaprogram/msa-gis.cfm) specialization.

Admission Requirements

Those interested in obtaining a Graduate Certificate in GIS must apply and be approved by the GIS Certificate Committee prior to enrollment. Admission requirements vary slightly between our two program offerings: GIS Graduate Certificate program (Pensacola campus) and Online GIS Graduate Certificate program (online campus). Admission requirements by program are provided below.

Students may transfer one class (3 or 4 credits) into the program providing the transfer criteria are met. The class must not have counted towards a degree or a certificate at another institution and must be a graduate-level course from a regionally accredited university.

Graduate Certificate in GIS Program:

- Submission of Application for Admittance.
- Provide proof of undergraduate degree from a regionally accredited institution.
- Admission to UWF as a degree or non-degree seeking student.

Online GIS Certificate Program:

- Submission of Online GIS Certificate Application.
- Provide proof of undergraduate degree from a regionally accredited institution.
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the certificate program, including how the certificate relates to career goals.
- Successful completion of the Computer Skills Assessment.
- Admission to UWF as a degree or non-degree seeking student.

Course Requirements

Students accepted into the certificate program of their choice should schedule to meet with a program advisor to receive a detailed course plan.

Students accepted into the Online GIS Certificate program should select, by the end of the first semester, the Traditional GIS or Archaeology for GIS specialization. Online GIS courses are offered once a year unless otherwise stated.

Foundational Proficiencies 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 3015</td>
<td>Cartographic Skills</td>
</tr>
<tr>
<td>GIS 3015L</td>
<td>Cartographic Skills Lab</td>
</tr>
<tr>
<td>GIS 4035</td>
<td>Photo Interpretation and Remote Sensing</td>
</tr>
<tr>
<td>GIS 4035L</td>
<td>Photo Interpretation and Remote Sensing Lab</td>
</tr>
<tr>
<td>GIS 4043</td>
<td>Geographic Information Systems</td>
</tr>
<tr>
<td>GIS 4043L</td>
<td>GIS Laboratory</td>
</tr>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
</tr>
</tbody>
</table>

Required Course 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5039</td>
<td>Applications in Remote Sensing</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
</tr>
<tr>
<td>GIS 5265</td>
<td>GIS Applications for Archaeology (Offered only in online Certificate program)</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

- GIS 5935 Special Topics in Geographic Science
- GIS XXXX Special Topics in GIS for Archaeology (Offered only in online Certificate program)
Exceptional Student Education

The M.A. in Exceptional Student Education is a comprehensive program. There is a critical shortage of certified teachers, administrators, related professionals, and specialists in many areas of exceptional student education.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for provisional admission:

- Hold or be seeking professional teaching certification*
- Have earned a GPA of at least 3.0 on bachelor’s degree**
- Submit a current (within five years) official Graduate Record Exam (GRE) verbal score OR Miller’s Analogies Test (MAT) score
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references

To be fully admitted to the program, the following requirements must be met in addition to the requirements for provisional admission (above). Full admission is required by the fifth week of the first semester. Students will be unable to register for a second semester of coursework until full admission has been granted.

- Purchase and activation of a subscription to the School of Education’s assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20
- Applicants pursuing the Applied Behavior Analysis cognate are not required to hold or be seeking current professional teacher certification.

** Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program.

All approvals for admission to the School of Education are subject to reevaluation as students progress through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

Exceptional Student Education Comprehensive

The comprehensive master’s degree program in Exceptional Student Education is part of the NCATE accredited Professional Education Unit but is not an initial certification program. While students may use the course work completed to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine specific requirements for teacher certification. This program is designed to develop master teachers who will be prepared for instructional and leadership roles in special education.

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues. Students in this master’s degree program have 21 semester hours of required core courses as shown below.

Students must also complete a cognate program of study of at least 15 semester hours. The pre-approved cognate area options are the following:

- Special Education
- Applied Behavior Analysis
- Exceptional and Alternative Educational Studies

Before graduating, students will be required to complete an action research project as a capstone experience. All required courses must be completed with a grade of "C" or higher.

School of Education Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6222</td>
<td>Practical Applications and Issues Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6340</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6945</td>
<td>Research Practicum in Special Education (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Cognate Courses

Students must complete at least 15 semester hours of coursework in an approved cognate. The following are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education.

Special Education Cognate

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 5085</td>
<td>Integrating Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6035</td>
<td>Best Practices in Teaching Challenging Students</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6612</td>
<td>Behavior Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives Chosen in Conjunction with an Advisor</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>
Exceptional and Alternative Educational Studies Cognate

EEX 5283 Employment, Social, and Personal Skill Building for Exceptional Students 3
EEX 6035 Best Practices in Teaching Challenging Students 3
EEX 6612 Behavior Management 3
Electives Chosen in Conjunction with an Advisor 6
Total Hours 15

Applied Behavior Analysis Cognate

EDF 6223 Positive Behavioral Change and System Support in Educational Settings 3
EDF 6225 Foundations of Applied Behavior Analysis in Education 3
EDF 6226 Behavioral Assessments, Interventions, and Outcomes in Education 3
EDF 6557 Ethics in Applied Behavior Analysis 3
EDF 7437 Measurement and Single Case Design 3
EDF 7944 Advanced Single Case Design in Applied Settings 3
Total Hours 18

Health, Leisure, and Exercise Science

The M.S. in Health, Leisure, and Exercise Science offers specializations in Exercise Science (39 sh) and Physical Education (33 sh). The Exercise Science Specialization emphasizes administration of adult fitness and graduate research, while the Physical Education Specialization emphasizes study of physical activity promotion and performance in the K-12 setting and the community.

Exercise Science Specialization

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate Cumulative GPA
- Undergraduate Senior Year/Major GPA
- Academic Preparation as demonstrated by undergraduate degree major
- Submission of letter of intent describing reasons for applying to this program and associated career goals
- Certifications (ACSM, NSCA, ACE, AFA)
- Work Experience as reflected in a résumé

Degree Requirements

In addition to general University requirements, students seeking the M.S. in Health, Leisure, and Exercise Science must meet the requirements listed below.

Exercise Science Core

APK 6111C Advanced Exercise Physiology 3
HLP 6535 Research Procedures 3
HLP 6595 Research Seminar 3
PET 5052 Motor Learning 3
PET 5389C Physiological Basis of Strength Development 3
PET 5553 Advanced Exercise Testing and Prescription 3
Total Hours 18

Thesis or Internship

Students will choose one of the following tracks.

Thesis Track

HLP 6971 Thesis 6
Elective courses chosen from list below 12
Choose one of the following: 3
STA 5166 Special Topics in Statistics
STA 5206 Analysis of Variance
Total Hours 21

Internship Track

HLP 6940 Internship 6
Elective courses chosen from list below 15
Total Hours 21

Pre-approved Elective Courses

HLP 6922 Field Experience 1-3
HSC 5552 Communicable and Degenerative Diseases 3
PEP 5118 Aging and Physical Performance 3
PET 5216 Success in Sports 3
PET 5626 Rehabilitation of Athletic Injuries 3
PET 6074 Successful Aging: Physiological Aspects 3
PET 6905 Directed Study 3

Physical Education Specialization

This specialization is a two-year, 33 sh program of study with all coursework specifically focusing on improving the performance and knowledge base of the physical educator. A limited number of students will be accepted for the specialization, and they will be expected to complete the specialization with their peer cohort. Students will attend an intensive (8-9 hour-per-day) 3-week session during the first and second summers of enrollment. During the regular academic year, most students will be actively engaged in the teaching profession implementing, testing, and expanding their knowledge of physical education instruction, while maintaining enrollment and interaction with faculty at UWF. Other students may complete their coursework on campus while engaging in research and assisting with the undergraduate program. The specialization is designed not only to accommodate practicing teachers, but also to facilitate the growth of their knowledge base and skills through the active use of the information and instruction they receive in the specialization.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:
• Submission of one of the following graduate admission tests:
  • Graduate Record Examination (GRE) Verbal and Quantitative score
  • Miller Analogies Test (MAT)
• Undergraduate Cumulative GPA
• Undergraduate Senior Year/Major GPA
• Academic Preparation as demonstrated by undergraduate degree major
• Submission of letter of intent describing reasons for applying to this program and associated career goals
• Submission of three Recommendation Forms (http://uwf.edu/msaprogram/documents/HLES_Letter_of_Recommendation_Form.pdf) (PDF)
• Evidence of appropriate teacher certifications
• Work Experience as reflected in a résumé

Degree Requirements
In addition to general University requirements, students seeking the M.S. in Health, Leisure, and Exercise Science must meet the requirements listed below.

Physical Education (33 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6535</td>
<td>Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PET 5701</td>
<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 5702</td>
<td>Advanced Management of Physical Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>PET 5708</td>
<td>Instructional Design in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 5709</td>
<td>Advanced Curriculum in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 5805</td>
<td>Analysis and Supervision in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6015</td>
<td>Professional Issues in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6706</td>
<td>Analysis of Research on Teaching in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6707</td>
<td>Research on Physical Education/Teacher Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6940</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 33

History
The M.A. in History offers three specializations. The Program in Early American Studies is offered through on-site instruction. The traditional history degree with the option of completing either a thesis or research paper. The Public History Specialization trains students in the various aspects of public (applied) history and requires completion of an internship.

Students in the master’s program may also earn a certificate in Historic Preservation. The certificate program in historic preservation requires the completion of 18 sh at the master’s level. It is geared towards individuals interested in acquiring a general focus in the field of historic preservation and current practitioners in the field who wish to add a historic preservation certification to their academic or professional credentials. Contact the department for information concerning the certificate.

Admission Requirements
In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

• Minimum score on one graduate admission test as follows:
  • Graduate Record Examination (GRE) Verbal and Quantitative scores of at least 151 and Analytical Writing score of at least 3.5 or equivalent GRE percentile performance under the old testing platform. Early American Studies requires GRE Verbal and Quantitative scores of at least 152.
  • Miller Analogies Test (MAT) scaled score of at least 415
• Submission of letter of intent
• Submission of writing sample (undergraduate research paper preferred); Not required for Early American Studies applicants.
• Oral interview, if deemed appropriate
• Minimum of 15 semester hours of upper division history courses

The department reserves the right to a personal interview to determine an applicant’s potential for graduate study. The department reserves the right to admit conditionally an applicant who meets most but not all of the above requirements. This is done upon the recommendation of the Graduate Committee and under the conditions set by that Committee and the Chair of the Department. A student admitted conditionally must complete all requirements of that admission, including the required “Foundational Proficiencies,” before starting the graduate program.

Program Requirements
The full-time graduate student should expect to spend a minimum of three semesters at UWF to earn a degree.

With the approval of the Department Chair and the Graduate Committee, a maximum of 6 sh of history graduate course work can be transferred from another institution or be taken while in a non-degree status at UWF. Such courses must be completed with a grade of “B” or better.

A student must earn at least a “B-” in each graduate course taken at UWF to receive credit for that course and an overall 3.0 CGPA for all courses in the program. A student must apply for advancement to candidacy upon completion of 15 sh. The thesis, research paper, or internship advisor will then be appointed as the academic advisor. A student must complete graduate work within five years. A student may petition for an extension of the five-year rule if circumstances do not permit completion of the requirement. A student must take at least 18 sh of graduate course work at the 6000 level.

Language requirement: All Master’s students in History, Public History, and Early American Studies are required to demonstrate reading competency in at least one language other than English. This requirement must be fulfilled prior to the completion of course work. Contact the department for additional information or requirements.

Early American Studies
The program in Early American Studies will provide students with the skills necessary to research and interpret Early American history from an interdisciplinary perspective. The program will provide students the means to understand early American history with an emphasis on understanding how different disciplines approach early American history. This specialization within the department of History builds off of the strengths in the Department of History as well as those in the Departments of Government, English, Philosophy, and Anthropology.

The Program in Early American Studies is offered through on-site instruction.
Video or online instruction will be available as technology allows. Geared toward history students interested in furthering their education for a Ph.D., it also prepares students for a teaching career in K-12, community-college, or working in an applied position such as with museums, libraries, governmental and non-governmental agencies, and publishing.

It is a 33-hour program with both a thesis and non-thesis option. The program is designed to fulfill the requirements for a master's track in Early American Studies within a two year period.

A student must take the required 4 courses (Colonial America, American Revolution, Early Republic, and Jacksonian America) as well as the Introduction to American Studies and Historiography.

**Foundational Proficiencies**

An applicant must have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work will be required to correct the deficiency before taking graduate level courses. Students planning on further graduate study at the doctoral level should acquire proficiency in two languages or research tools.

**Plan A**

Plan A requires 33 semester hours of graduate course work, including 3 hours of thesis credit HIS 6971 Thesis. The student must write the thesis under the direction of a History faculty member and defend it in an oral examination before a thesis committee.

**Plan B**

Plan B requires 33 hours of graduate course work, including 3 hours of research seminar HIS 6911 Master's Research. In the research seminar, the student must write a substantial research paper under the direction of a History faculty member.

The student must have 6 hours of approved coursework outside of History toward degree requirements.

| AMH 5XXX | Introduction to American Studies | 3 |
| AMH 5059 | Graduate Methods | 3 |
| AMH 6116 | Colonial America | 3 |
| AMH 6XXX | American Revolution, 1763-1815 | 3 |
| AMH 6XXX | Early Republic, 1781-1815 | 3 |
| AMH 6169 | Seminar: Jacksonian America | 3 |

Choose 6 hours from the History electives listed below:

| AMH 6447 | Seminar: Spanish Borderlands, 1513-1821 |
| AMH 6439 | Seminar: The Southern Frontier |
| AMH 6XX7 | U.S. Constitutional History to 1877 |
| AMH XXXX | French and Indian War |
| AMH XXXX | United States Civil War |
| EUH 5539 | England and America from the Colonial Period to the Present |
| EUH XXXX | Scottish Enlightenment |
| EUH XXXX | Religion and Politics |
| HIS 6285 | Maritime History |

Choose 6 hours from approved outside courses listed below:

| ANG 5137 | Nautical Archaeology Seminar |

| ANG 5154 | Spanish Florida in Anthropological Perspective |
| ANG 5157 | Pre-Columbian Archaeology Seminar |
| ANG 5172 | Historical Archaeology Seminar |
| ANG 5173 | Historical Research Methods in Archaeology |
| ANG 6196 | Policies, Practices and Archaeology in Historic Preservation |
| AML 6455 | Topics in American Literature |
| PHI XXXX | Early American Philosophy |
| POS 6045 | Seminar in American Politics |
| POT 5207 | American Political Thought |
| POS SXXX | The Founders' Constitution |
| POS 5905 | Federalists and Antifederalists |

Total Hours 33

**History Specialization**

The History Specialization is a traditional degree that equips students to pursue further graduate study or to begin an enriching career. Students may focus their course work in American or European history but acquire a broad knowledge and marketable skills that prepare them for a Ph.D. program in history or for a career teaching at the middle school, high school, or community-college level or working in governmental and non-governmental agencies, institutional planning, libraries, museums, archives, non-profits, politics, or publishing.

**Foundational Proficiencies**

An applicant must have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work will be required to correct the deficiency before taking graduate level courses. Students planning on further graduate study at the doctoral level should acquire proficiency in two languages or research tools.

**Course Requirements**

**Plan A**

Plan A requires 33 sh of graduate history course work, including the thesis. At least 15 sh must be in the major field (United States or European) and 6 sh in thesis. The student must write the thesis under the direction of a History faculty member and defend it in an oral examination before a thesis committee.

**Plan B**

Plan B is designed for the student who prefers a wide range of studies in history. A student must take 33 sh of graduate history course work distributed in the following manner:

| European History | 9 |
| United States History | 9 |
| Four (4) History Electives | 12 |

Total Hours 33

In the research seminar, the student must write a substantial research paper under the direction of a History faculty member.

The student may count one 3 sh course taken outside of history toward degree requirements with the prior approval of their academic advisor and the History faculty, who will make the final decision.

**Public History Specialization**

The Public History Specialization within the UWF History Department trains students in the various aspects of public (applied) history, the study of history outside the academic setting. Students learn about
the numerous ways in which public historians think and operate as professionals.

Beginning with an introductory seminar, students develop both traditional and public history skills and techniques. Students work in two or more areas of Public History Specialization, including community history, museology and museum studies, policy history, environmental history, and/or media history. Coursework is offered through both the History Department and other University departments and programs.

To facilitate the learning of various skills and research techniques, students participate in a 6 sh internship with an appropriate agency or organization. As the thesis equivalent, students complete and defend an extensive report on their internship experience. The combination of traditional and applied skills with the practical application of public history in the field provide students with the resources to secure employment following graduation.

Foundational Proficiencies

An applicant must have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work will be required to correct the deficiency before taking graduate level courses.

Course Requirements

Public History Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6055 Public History Methodology</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level European History elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level American History elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level Latin American/African/Asian/Ethnic elective</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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</tr>
</tbody>
</table>

Internship

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6056 Graduate History Practicum</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

Applied History/Non-History Electives 15

Choose three or four of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5077 Oral and Community History</td>
<td></td>
</tr>
<tr>
<td>HIS 5087 Advanced Museology</td>
<td></td>
</tr>
<tr>
<td>HIS 6083 Historic and Heritage Preservation Seminar</td>
<td></td>
</tr>
<tr>
<td>Approved 5000/6000 Level Applied History Elective</td>
<td></td>
</tr>
</tbody>
</table>

Choose one or two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5137 Nautical Archaeology Seminar</td>
<td></td>
</tr>
<tr>
<td>ANG 5172 Historical Archaeology Seminar</td>
<td></td>
</tr>
<tr>
<td>ANG 6192 Historic Preservation Law Seminar</td>
<td></td>
</tr>
<tr>
<td>ANG 6196 Policies, Practices and Archaeology in Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>ARH 5836 Museum and Gallery Studies</td>
<td></td>
</tr>
<tr>
<td>EVR 5413 Environmental Aspects of Urban Growth</td>
<td></td>
</tr>
<tr>
<td>EVR 6930 Special Topics in Environmental Sciences</td>
<td></td>
</tr>
<tr>
<td>FIL 5038 History of Motion Pictures I</td>
<td></td>
</tr>
<tr>
<td>Approved 5000/6000 level outside elective</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>0</td>
</tr>
</tbody>
</table>

Certificates

Historic Preservation Certificate

Department: History

Method of Instruction: Classroom

Semester Hours: 18

The program is designed for those who are merely interested in historic preservation, those who are already practitioners in the field or wish to add credentials, or those who are contemplating possible degree certification but are not yet ready to commit to a full-scale degree program. The program attempts to provide interdisciplinary graduate education in historic and cultural preservation, public history and archaeology, historical art and architecture, cultural resource management and museum administration.

Instructional Technology

Instructional Technology professionals provide critical assistance for national and international education and training initiatives in the 21st century. The M.Ed. in Instructional Technology prepares education, training, military, business, and industry professionals to meet the challenges of complex problems from the perspective of education and training. Developing innovative solutions to organizational problems and providing for just-in-time support to employees and learners permits students to develop a variety of instructional technology-related skills. With the advent of the information explosion, industry, the military, and educational systems look for alternative and systematic strategies related to instructional technology and instructional systems. Students in the M.Ed. program select courses in a concentration area in addition to the program core requirements.

Graduates of the M.Ed. in Instructional Technology work in curricular, instructional, performance, or distance environments, designing, producing, and evaluating instructional materials, and managing teams or technology projects.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA or undergraduate last 60 semester hour GPA
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals
- Academic preparation
- Department review

Degree Requirements

In addition to general University requirements, students seeking the M.Ed. in Instructional Technology must meet the requirements listed below.

To be eligible for a M.Ed. degree in Instructional Technology, a student must do the following:

- Complete degree requirements of at least 36 semester hours compliant with the time-to-degree policy
• Be recommended for graduation by the Department of Applied Science, Technology and Administration.
• Successfully complete the Capstone Experience (EME 6946).

**Instructional Technology Core (15 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6218</td>
<td>Psychological Foundations for Education: Learning and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6215</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6504</td>
<td>Principles of Instruction Design &amp; Product Development</td>
<td>3</td>
</tr>
<tr>
<td>EME 6607</td>
<td>Instructional Technology Planning and Change</td>
<td>3</td>
</tr>
<tr>
<td>EME 6602</td>
<td>Applied Instructional Technology Investigations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Concentration Area (Minimum 12 sh)**

Students will select one of the following concentration areas:

**Innovation (Minimum 12 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6408</td>
<td>Integrated Technology Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td>EME 6256</td>
<td>Creativity and Innovation in the Learning Organization</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Advisor approved related course(s)</strong></td>
<td><strong>3-6</strong></td>
</tr>
</tbody>
</table>

**Distance Learning (Minimum 12 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Advisor approved related course(s)</strong></td>
<td><strong>3-6</strong></td>
</tr>
</tbody>
</table>

**Electives (3-6 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6426</td>
<td>HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6427</td>
<td>Implementing HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6428</td>
<td>Evaluating HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6429</td>
<td>Human Performance Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EME 6458</td>
<td>Distance Learning Policy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>5000/6000 level elective approved by advisor</strong></td>
<td><strong>3-6</strong></td>
</tr>
</tbody>
</table>

**Capstone Experience (3-6 sh)**

All students are required to complete a capstone experience consisting of a field experience (project) or internship. Students are responsible for identifying field experiences/internships and obtaining permission to proceed from both the client and the instructor. Field experiences/internships must fulfill a real need for a real client and be aligned with the student’s academic program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6946</td>
<td>Field Experiences in Instructional and Performance Technology</td>
<td>3-6</td>
</tr>
</tbody>
</table>

**Certificates**

**Distance Learning Certificate**

Department: Applied Science, Technology and Administration

Method of Instruction: Online

Semester Hours: 9

The Distance Learning Certificate facilitates a focused examination of practices involved in the design, development, implementation and evaluation of distance learning environments. This focus permits participants to develop skills that they need to work in those same environments. With the explosion of global distance learning opportunities, combined with the expertise of the UWF faculty, this certificate will frame the foundational skills needed for individuals to effectively and efficiently work in distance-based teaching and learning environments.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select one:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>EME 5457</td>
<td>Distance Education Technologies</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Human Performance Technology Certificate**

Department: Applied Science, Technology and Administration

Method of Instruction: Online

Semester Hours: 12

The Human Performance Technology Certificate Program is a 12-hour online program, which explores the roles of Human Performance professionals in identifying and solving performance technologies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6429</td>
<td>Human Performance Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EME 6426</td>
<td>HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6427</td>
<td>Implementing HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6428</td>
<td>Evaluating HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Virtual Educator Certificate**

Department: Applied Science, Technology and Administration

Method of Instruction: Online

Semester Hours: 9

The Virtual Educator Certificate facilitates a focused examination of practices involved in the virtual teaching and learning environment. Participants develop skills that they need to work with students, support systems, administrators, and experts in the virtual teaching environment. With the explosion of virtual education at all levels of education, this certificate prepares participants to be successful in a virtual environment.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Select one:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Advisor Approved Elective</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Mathematics**

The M.S. in Mathematical Sciences offers students who hold a bachelor’s in mathematics, statistics, or related fields an opportunity to broaden their knowledge in several fields of mathematics, statistics, and their applications. The M.S. program is designed for students seeking careers in science, business, industry, or government; for students who want to teach in high schools or at the community college level; or for students who plan to pursue doctoral studies. The M.S. program offered by the Department of Mathematics and Statistics permits students considerable flexibility in choosing courses. For example, students who are seeking careers in financial/investment industries, banks, insurance companies, or government may choose more statistics courses that emphasize the use, adoption, and development of statistical methods and state-of-the-art computer technology in the analysis of data from problems in all fields of study.
Attendance Requirement for Online Students

For distance students to succeed in our hybrid distance learning program, it is very important that distance students attend live each lecture via Blackboard Collaborate. The strength of the online graduate program and students' success depend on the live interaction between students and lecturers.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

If an applicant has a B.S. in mathematics or a related field:

- Minimum Graduate Record Examination (GRE) Verbal score of at least 150 and Quantitative score of at least 150 or equivalent GRE percentile performance under the previous testing platform.

If an applicant does not meet the above requirements, they may be considered for conditional admission. Please contact the department for more information.

If a student has a graduate degree in any of the sciences, no GRE is required.

- The student will be admitted if the student has all required undergraduate proficiency courses.
- The student will be admitted provisionally subject to completing the required undergraduate proficiency courses.

With the approval from the department, a maximum of six credit hours may be transferred into the program.

In addition to general University requirements, students seeking the M.S. in Mathematical Sciences must meet the requirements listed below.

Foundational Proficiencies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAS 3105</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 3162C</td>
<td>Applied Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAA 4212</td>
<td>Advanced Topics in Multi-Variable Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MAD 4401</td>
<td>Numerical Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 13

Degree Requirements

The M.S. is offered with or without a thesis. In addition to general University requirements, students seeking the Master's degree are required to maintain at least a 3.0 GPA in all University work undertaken in connection with the degree.

Each student must complete a minimum of 30 sh of approved course work. For the degree with thesis, 6 sh of 6000-level credit will be awarded for the thesis. For the degree without thesis, a proseminar (1 sh) is required in which the candidate will investigate and make an oral presentation of topics in mathematics or statistics. All candidates will take and pass comprehensive examinations covering the graduate core requirements.

A grade of C- or better is required in all courses.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS 5145</td>
<td>Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>STA 5326</td>
<td>Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>Advisor approved 5/6000-level courses*</td>
<td>18-24</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 24-30

Tracks

Students will choose one track.

Thesis Track

Choose one of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6971</td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>STA 6971</td>
<td>Thesis</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 6

Non-Thesis Track

Choose one of the following: 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6930</td>
<td>Proseminar in Mathematics</td>
<td></td>
</tr>
<tr>
<td>STA 6930</td>
<td>Proseminar in Statistics</td>
<td></td>
</tr>
<tr>
<td>Additional approved 5/6000-level courses</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 7

*Other Requirements

Students completing a thesis will take an additional 18 sh of math/stat graduate courses approved by the department while non-thesis students will take an additional 24 sh of math/stat graduate courses approved by the department. A minimum of 15 sh must be at the 6000 level.

Total Hours 18-24

Medical Informatics Certificates

Medical Informatics Graduate Certificate

Department: School of Allied Health and Life Sciences

Method of Instruction: Online

Semester Hours: 12

Medical Informatics can be broadly defined as the use of computer technology to support clinical practice, administration, education, and research. The products developed in this field, "information resources", involve the hardware and software that facilitates the storage, retrieval, and optimal use of medical information for problem-solving and decision-making. Please visit our website at http://www.uwf.edu/sahls/medical-informatics/courses.cfm for updates on course requirements in this certificate program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5XXX</td>
<td>Advanced Topics in Health Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5197</td>
<td>Introduction to Medical Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Study Design and Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Computer Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Introduction to Bioinformatics</td>
<td></td>
</tr>
</tbody>
</table>

If you began in this program prior to Fall 2007, to meet the Certificate requirements, you must take HSA5197 and HSA5198 and then choose any TWO of the following courses: BSC5459, HSC5512, PHC6196, or PHC6015. To receive a Certificate at the graduate level, all courses must be completed at the graduate level.

Total Hours 12
Advanced Medical Informatics Teaching and Integration Graduate Certificate

Department: School of Allied Health and Life Sciences

Method of Instruction: Online

Semester Hours: 18

Please visit our website at http://www.uwf.edu/sahls/certificate-informatics/courses.cfm for updates on course requirements in this certificate program.

HSA 5XXX Advanced Topics in Health Information Technology 3
HSA 5197 Introduction to Medical Informatics 3
HSA 5198 Electronic Clinical Record Systems 3
PHC 6196 Computer Applications in Public Health 3
PHC 6015 Epidemiological Study Design and Statistical Methods 3
Choose one of the following: 3
PHC 6251 Disease Surveillance and Monitoring
PHC 6194 GIS Applications in Public Health
BSC 5459 Introduction to Bioinformatics

Total Hours 18

Nursing

This innovative and flexible online program prepares the professional nurse for leadership, advanced nursing roles, and doctoral studies (including a cooperative doctorate with the University of Florida). The M.S.N. consists of 39 semester hours (sh) of coursework. Students may select from the two areas of specialization. Nursing Education prepares students for employment in an academic or community/hospital/agency setting, while Nursing Leadership & Management prepares students for employment in an administrative/management and leadership positions in the health care industry.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- An earned Bachelor of Science in Nursing degree from an NLN or CCNE accredited nursing program with a minimum overall grade point average of 3.0 on a 4.0 scale or a 3.0 (GPA) on a 4.0 scale in the last 60 hours of coursework on the BSN.
- Completion of an undergraduate statistics course with a grade of "C" or better.
- Submission of a statement addressing how an M.S.N. will help you attain your professional and personal goals.
- Three professional/academic recommendation letters
- Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
- Possess a current unencumbered Registered Nurse license to practice nursing in a state or territory of the United States.
- Express Admission Students are required to become licensed as a registered nurse to practice in a state or territory of the United States by the end of the first semester of enrollment to progress in the program.
- Curriculum vitae (CV) or resume.

- Approval by the Nursing Department Graduate Admissions Committee.

If an applicant is unable to meet the above criteria, they may petition the Nursing Department Graduate Admissions Committee and request a special review.

Please note that upon admission the M.S.N. student will receive information concerning current UWF Nursing Department requirements for enrollment. These include, but are not limited to: physical examination and immunizations; Level 2 criminal background check; drug screen; VECHS fingerprinting; AHA BCLS certification; proof of professional liability insurance; and proof of personal health insurance.

Degree Requirements

Students wishing to earn a M.S.N. must successfully complete both the core courses and the specialty courses.

M.S.N. Core (21 sh)

See Program Requirements

Leadership and Management Specialization

M.S.N. Core (21 sh)

See Program Requirements

Leadership and Management Specialty (18sh)

NGR 6002 Advanced Health Assessment 3
NGR 6140 Advanced Pathophysiology 3
NGR 6172 Advanced Pharmacology 3
NGR 6700 Nursing Theory 3
NGR 6740 Contemporary Issues in the Role of Advanced Nursing Practice 3
NGR 6800 Nursing Research, Statistics, and Evidence Based Practice 3
NGR 6880 Ethical Issues in Advanced Nursing Practice 3

Total Hours 21

Education Specialization

M.S.N. Core (21 sh)

See Program Requirements

Education Specialization (18 sh)

NGR 6710 Nursing Education Seminar I 6
NGR 6715 Nursing Education Seminar II 6
NGR 6834 Nursing Education Evidence Based Project I 3
NGR 6834L Nursing Education Evidence Based Practice Project II 3

Total Hours 18

Political Science

The M.A. program is designed for students interested in acquiring a broad view of political science or who wish to specialize in international relations or public administration. The program consists of 33 semester hours plus successful completion of a comprehensive examination or a thesis. There are three possible tracks to choose from: generalist, security and diplomacy, and public administration. The generalist track is primarily for students who wish to have a broad view of the discipline, either to satisfy their own curiosity or as a means to pursue
careers in the media, education, or the private sector. The public administration track is designed for students considering a career in the public or non-profit sector. The security and diplomacy track is designed for students considering or presently pursuing a military or national security career. Requirements for each track are specified below. All new students should be advised initially by the department chair. In addition to the university requirement that students maintain a cumulative GPA of 3.0 or higher, students must also make a 3.0 or higher GPA in each core course.

Online M.A. in Political Science

The Department of Government now offers fully online core coursework for the M.A. in Political Science program. By taking electives offered online, students can complete this program at a distance. Note this is a synchronous course delivery program, meaning that students are required to attend live lectures via Scopia, the University’s free video conferencing service. Through this format, students benefit from face-to-face interaction with other students and faculty in real time while also enjoying the flexibility of online course delivery. The strengths of the online graduate program and students’ success depend on these live interactions.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria can be used to assess the potential success of each applicant:

- Graduate Record Examination (GRE) verbal and quantitative score or Miller Analogies Test (MAT) with a minimum score in each that ranks in the 50 percentile or better
- Undergraduate cumulative GPA of 3.0 or above
- Submission of a writing sample

Students must earn a GPA of 3.0 in each core course to satisfy program requirements.

Degree Requirements

Political Science Core (21 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 6006</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>INR 6007</td>
<td>Seminar in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6275</td>
<td>Political Economy of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POS 6006</td>
<td>The Study of Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6045</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6704</td>
<td>Political Science Research Methods (Choose one of the following)</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>POS 6702</td>
<td>Modern Masters of Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>POS 5016</td>
<td>Ancient Masters of Political Thought</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 21

Tracks

Generalist Track (12 sh)

This track allows students to take 12 sh of elective credit, of which 6 sh may be earned by writing and successfully defending a thesis. Note: In order to be eligible for the thesis option, students are required to maintain a 3.0 GPA. The generalist track is primarily for students who wish to obtain a broad view of the discipline, possibly as a means to pursue careers in the government, the media, education, or the private sector. If they are looking to pursue a doctorate, they would be well advised to take the thesis option and another 6 sh of electives (which may be in a related discipline such as history, philosophy, economics or statistics). Non-thesis students take 12 sh of electives, of which 6 sh may be taken outside of the discipline. Non-political science credits require prior approval of the department chair. Also, they may take a directed studies course to explore in greater depth an area of interest in Political Science. Completion of the degree requires a successful comprehensive exam or thesis defense.

<table>
<thead>
<tr>
<th>Option</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisor-approved comprehensive examination option (6 sh plus 12 sh of electives)</td>
<td>18</td>
</tr>
<tr>
<td>Advisor-approved thesis option (6 sh plus 12 sh of electives)</td>
<td>24</td>
</tr>
</tbody>
</table>

Total Hours: 12

Public Administration Track (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 6053</td>
<td>Public Administration Professional</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>Two PAD prefix elective courses approved by the Chair or Advisor or Chair and Advisor-approved comprehensive examination (6 sh of electives)</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 12

Security and Diplomacy Track (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four CPO or INR prefix 5000/6000 level courses approved by the Chair or Advisor</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td>Chair and Advisor-approved comprehensive examination</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 12

Thesis Option

Students may choose to complete a thesis in lieu of completing 6 sh of electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 6971</td>
<td>Thesis</td>
<td>0-6</td>
</tr>
</tbody>
</table>

Total Hours: 0-6

Certificates

Online Civics Educator Certificate

Department: Government and Applied Science, Technology, and Administration

Semester Hours: 12

The Civics Educator Program is devoted to the study of American government, focusing on the origins and development of American political thought and institutions. The founding documents, the basic constitutional structure (separation of powers, judicial review, federalism, etc.) political parties and elections, and the evolution of public policy and administration in response to changes in ideas and demography as well as key events are emphasized. Participants develop content knowledge and skills they need to work as teachers of civics in the social studies classroom.

This is a hybrid distance program. Students are required in some classes to attend live lectures via Scopia, the University’s free video conferencing service. Through this format, students benefit from face-to-face interaction with other students and faculty in real time while also enjoying the flexibility of online course delivery. The strengths of the online certificate program and students’ success depend on these live interactions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POT 5207</td>
<td>American Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>POS 6045</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

This is a hybrid distance program. Students are required in some classes to attend live lectures via Scopia, the University’s free video conferencing service. Through this format, students benefit from face-to-face interaction with other students and faculty in real time while also enjoying the flexibility of online course delivery. The strengths of the online certificate program and students’ success depend on these live interactions.
The following are the minimum admission requirements:

- Complete a notice from the Department of Psychology indicating that files are complete.
- Applications for admission for summer and fall semesters are due on the published deadline. Files completed after the published deadline may not be reviewed in time to enroll in the desired semester.
- In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the school bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Undergraduate cumulative GPA
  - Psychology undergraduate GPA
  - Grades received in undergraduate major coursework
  - Submission of letter of intent
  - Submission of three letters of reference
  - Program prerequisites
  - Field experience or skill sets
  - Oral Interview, if applying to the Counseling specialization

Applicants can assume that their files are incomplete until they receive notice from the Department of Psychology indicating that files are complete.

The following are the minimum admission requirements:

- A bachelor’s degree in psychology (preferably) or a bachelor’s degree with the completion of at least general/introductory psychology, psychology research methods sequence, three semester hours of statistics, and a psychology course in the area of intended master’s emphasis. Any of these requirements may be waived if the student demonstrates competence in the area. Although a student may be admitted with deficiencies, the requirements must be fulfilled before the student is admitted to any 6000-level course. In addition, certain graduate courses have specific undergraduate prerequisites.
  - If admitted, students who do not have an undergraduate degree in Psychology must have the specified prerequisites for all graduate courses. For example, these students need to complete Psychology of Learning (EXP 4404), or its equivalent, before taking Advanced Behavior Modification (EAB 5705).
  - If admitted, students who have an undergraduate degree in Psychology are considered to have met the prerequisites for courses in the graduate core.

Non-Degree Students

The department may be petitioned to accept up to 12 sh earned at UWF as a non-degree student toward the M.A. degree, if the student is later admitted into the graduate program. See the Non-Degree Seeking Status (p. 29) policy.

Degree Requirements

In addition to general University requirements, students seeking the M.A. in Psychology must meet the requirements listed below.

Graduate students should develop their degree plans with their advisors during the first semester of graduate work. All students must complete University requirements and a planned degree program (36 sh for Applied Experimental Psychology Specialization, 42 sh for Industrial-Organizational Psychology Specialization, 45 sh for the Counseling-Thesis Option Psychology Specialization; 60 sh for the Counseling-Licensed Mental Health Counselor Specialization) with at least a 3.0 GPA and with these stipulations:

- Only with approval of the advisor and department chairperson may courses outside the Psychology Department (except required courses) be taken toward the total sh requirement.
- All students must complete PSY 6217 Research Design in Psychology; either STA 5206 Analysis of Variance or STA 5166 Special Topics in Statistics and at least one course from each of the four core areas.

All graduate students must receive a B- or higher in all graduate coursework. If a student receives a C+ or lower in a psychology graduate course, they must repeat the course or an equivalent approved by the Department Chair.

With the advisor’s approval, a student may apply a maximum of 6 sh of graduate work taken at another University toward the degree. With the approval of the school Chair, a maximum of 10 sh of transfer credit may be accepted toward the degree.

All master’s work must have been taken within six years preceding completion of the degree requirements or the student will be required to retake any expired course work.

In order to switch tracks, students must meet with the program coordinator of both tracks. Students must also submit a new letter of intent describing their career goals and how the track will help them in their pursuit of these goals. Students will be re-evaluated for the new track based on their current class performance and new letter of intent. Students who receive approval to switch tracks must meet with an advisor from the new track to review degree requirements. Students may apply for a track change only once.
Psychology Graduate Core (18 sh)

Students must complete one course in each area as identified by their specialization.

- **Biological Bases of Behavior Core**-choose one of the following:
  - EXP 5208 Advanced Sensation and Perception
  - EXP 5256 Human Factors Psychology (I/O only)
  - PSB 5035 Cognitive Neuroscience

- **Social Bases of Behavior Core**-choose one of the following:
  - PSB 6278 Multicultural Counseling (LMHC only)
  - SOP 6069 Advanced Social Psychology
  - SOP 6669 Advanced Organizational Psychology (I/O Only)

- **Acquired Bases of Behavior Core**-choose one of the following:
  - EAB 5705 Advanced Behavior Modification
  - EXP 6506 Advanced Cognitive Psychology
  - INP 6235 Training and Development (I/O Only)

- **Individual Bases of Behavior Core**-choose one of the following:
  - DEP 5055 Developmental Psychology
  - INP 6216 Personnel Selection and Appraisal (I/O Only)
  - PCO 6216 Theories of Individual Counseling (LMHC Only)

All students must complete:

- PSY 6217 Research Design in Psychology
- And either:
  - STA 5206 Analysis of Variance
  - STA 5166 Special Topics in Statistics

**Total Hours:** 18

Toward the end of graduate work, the student must have an integrative experience consisting of 6 sh of one of the following courses:

- PSY 6917 Supervised Research
- PSY 6948 Internship *
- PSY 6971 Thesis

* PCO 6948 Internship in Counseling for counseling students

A maximum of 6 sh of supervised research, thesis, or internship credit may be counted toward the total sh degree requirement.

Consistent with the University’s Continuous Enrollment Policy for Thesis Students, students registered for thesis, supervised research (TeRP) or internship must be continuously enrolled at UWF (not including summer) after they have registered for their first capstone credit hour. A student may satisfy the intent of continuous registration by registering for thesis credits, supervised research, internship, or graduate coursework. Students who fail to do so will receive a warning letter from the Department of Psychology Chair suggesting that they may be removed from the program or required to start their Capstone project over.

Once a student has registered for six hours of thesis, supervised research (TeRP), or internship, that student must show continued satisfactory progress. After the first semester (following the completion of six hours) students are enrolled, any students who fail to make satisfactory progress will receive a warning from their advisor stating that they must show satisfactory progress in the next semester or potentially be removed from the program. These students must also meet with their committee to discuss how they plan to complete the project if allowed to remain in the program. Following a second semester in which students fail to make progress, a letter will be sent to those students by the Department of Psychology Chair. This letter will detail the milestones that MUST be met by the end of that semester. If the student fails to meet the milestones (as judged by the student's committee) after the third semester, then those students will receive the grade of "U" and will not be permitted to continue in the program. Students may petition for a waiver under extraordinary circumstances such as health issues or other life crisis.

Students doing an internship are required to submit a portfolio and/or paper, depending on the specialization, as described in the Psychology Graduate Student Handbook. Upon completion of the thesis or internship, the student must present an oral defense to a master’s committee of at least two psychology faculty members.

The Supervised Research integrative experience is the Terminal Research Project (TeRP). This can be accomplished by students completing 6 sh of PSY 6917 Supervised Research. This option allows students to design and complete an independent empirical study under the supervision of a two member faculty supervisory committee with the committee head being a tenure track faculty member from the Department of Psychology. The terminal experience for students who choose this option will consist of three elements:

- Completing an empirical study and having an initial defense before the TeRP committee
- Making an oral presentation to the students and faculty of the Department and invited guests
- Preparing a manuscript intended for publication in a refereed academic journal

**Applied Experimental Psychology Concentration**

The Applied Experimental Specialization is designed for those students who wish to do graduate work with a focus on research and its application in areas of psychology such as biological psychology, cognitive neuroscience, cognitive psychology, developmental psychology, experimental psychology, health psychology, or human factors psychology. Graduates from the Applied Experimental Specialization are expected to matriculate into doctoral programs at major universities or find employment in community college teaching, research centers, public agencies, or industry.

The 36 sh curriculum provides coverage of the basic content areas of psychology (e.g., biological, cognitive, developmental, social), the research tools of psychology (e.g., research design, statistics), and in the student’s field of interest through electives, independent study, supervised research, and the thesis or terminal research project. Examples of areas of possible student specialization include behavior modification, biological psychology, cognitive neuroscience, developmental psychology, health psychology, human factors, sensation and perception, social psychology, and family science.

In addition to the 24 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior and Capstone), Applied Experimental students must complete the following:

**Concentration (6 sh)**

- EXP 5208 Advanced Sensation and Perception 3
- PSB 5035 Cognitive Neuroscience 3
- EXP 6085 Seminar in Applied Psychological Sciences 3

**Total Hours:** 6

* These AEP concentration courses also meet the Psychology Biological Bases Core requirement

**Recommended Electives (6 sh)**

- EXP 5256 Human Factors Psychology 3
- STA 5206 Analysis of Variance 3
Counseling Psychology Thesis Option Concentration

The Counseling Psychology Thesis Option concentration is a 45 semester hour graduate program designed primarily to prepare individuals for admission to a doctoral program in Clinical or Counseling Psychology. This degree option focuses on establishing the essential graduate foundation in counseling psychology to support and enhance doctoral training. This option requires completion of specialty courses and a total of 450 hours (6 sh) of practicum/ internship field placement in the area of counseling psychology and a research-based thesis.

In addition to the 18 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior - Counseling students take PCO 6216 Theories of Individual Counseling to meet Individual Bases of Behavior portion of the core), Counseling Thesis Option students must complete the following:

Concentration (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP 5166</td>
<td>Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6204</td>
<td>Pre-Practicum: Techniques of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6206C</td>
<td>Ethical and Professional Issues in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6246</td>
<td>Theories of Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>Graduate Elective Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 15

Students are strongly advised to take PCO 6315 Assessment in Counseling to fulfill the elective in the program. Other options must be discussed with their advisor.

Application (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCO 6946</td>
<td>Practicum in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6948</td>
<td>Internship in Counseling</td>
<td>1-6</td>
</tr>
<tr>
<td>PSY 6971</td>
<td>Thesis</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Total Hours 5-15

Counseling Psychology-Licensed Mental Health Counselor

The Licensed Mental Health Counselor option is a 60 sh program with requirements comparable to the requirements established by the Florida state board for licensure as a Mental Health Counselor. Attainment of the degree does not entail conferral of the license, which is governed by the state licensing board. This degree option focuses on meeting current licensure requirements, preparing the graduate for a career as a licensed mental health counselor, and requires completion of specialty coursework and a total of 1000 hours (9 sh) of practicum/internship field placement in a mental health setting. Upon graduation from the licensure option, the individual should be in a position to qualify to register with the state licensing board as an intern and to obtain the two year post-degree supervised experience required by the board for licensure.

In addition to the 18 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior - Counseling students take PCO 6216 Theories of Individual Counseling to meet Individual Bases of Behavior portion of the core and PCO 6278 Multicultural Counseling to meet the Social Bases of Behavior portion of the core), Licensed Mental Health Counseling students must complete the following:

Concentration (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCO 6315</td>
<td>Assessment in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CLP 5166</td>
<td>Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6204</td>
<td>Theories of Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6206C</td>
<td>Ethical and Professional Issues in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6246</td>
<td>Pre-Practicum: Techniques of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Elective (3 sh)

Licensure Courses (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP 5055</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOP 6776</td>
<td>Human Sexuality and Sex Therapy</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6345</td>
<td>Educational and Vocational Guidance</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6312</td>
<td>Substance Abuse Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CYP 6005</td>
<td>Community Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Industrial-Organizational Psychology Concentration

The 42 sh Industrial-Organizational (I/O) concentration combines traditional personnel psychology (selection, performance appraisal, test construction and validation, fair employment practices, and legal issues) with the more interpersonal emphasis of organizational psychology (motivation, job satisfaction, leadership, interpersonal communication, organizational diagnosis, and change). The curriculum meets the needs of students who plan to be employed at the master's level in organizational settings as well as those who wish to pursue a doctoral program in a related field at another University.

In addition to the 24 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior - I/O students take EXP5256 Human Factors to meet the Biological Bases portion of the core, SOP6669 Advanced Organizational Psychology to meet the Social Bases portion of the core, INP6325 Training and Development to meet the Acquired Bases portion of the core, and INP6216 Personnel Selection and Appraisal to meet Individual Bases of Behavior portion of the core and Capstone), I/O student must complete the following:

Concentration (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INP 5087</td>
<td>Ethics in I/O Psychology</td>
<td>1</td>
</tr>
<tr>
<td>INP 5131</td>
<td>Legal Issues in Industrial/Organizational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>INP 6255</td>
<td>Methods in Personnel Psychology</td>
<td>2</td>
</tr>
<tr>
<td>INP 6385</td>
<td>Group Dynamics in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SOP 6668</td>
<td>Organizational Change and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

Electives (6 sh)

Students must complete at least 6 semester hours of elective courses relevant to I/O and chosen in consultation with the advisor. Recommended electives include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5705</td>
<td>Advanced Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>EAB 5738</td>
<td>Behavioral Medicine</td>
<td>3</td>
</tr>
<tr>
<td>INP 6944</td>
<td>Practicum in Industrial Psychology</td>
<td>1-3</td>
</tr>
</tbody>
</table>
Additional statistics, or courses in Organizational Development (OD) offered in collaboration with the Management Department.

Certificates

Health Psychology Certificate

Department: Psychology

Method of Instruction: Classroom

Semester Hours (completed during the course of and/or in addition to degree requirements): 21

Health is broadly conceptualized as physical, psychological, emotional, social, and spiritual well-being. The health psychology certificate at UWF recognizes the interacting roles of body, mind, and spirit in health. The curriculum of the health psychology certificate balances Eastern and Western approaches to health, with an emphasis on the contributions of the field of psychology.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5738</td>
<td>Behavioral Medicine</td>
<td>3</td>
</tr>
<tr>
<td>CLP 4314</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSB 5035</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>EAB 5705</td>
<td>Advanced Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>Two of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCO 6312</td>
<td>Substance Abuse Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PSY 4832</td>
<td>Sport and Exercise Psychology</td>
<td>3</td>
</tr>
<tr>
<td>ISC 5517</td>
<td>Buddhist Psychology</td>
<td>2</td>
</tr>
<tr>
<td>ISC 5517L</td>
<td>Buddhist Psychology Lab</td>
<td>1</td>
</tr>
<tr>
<td>CYP 6005</td>
<td>Community Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EXP 5256</td>
<td>Human Factors Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSY 5016</td>
<td>Conjunctive Psychology</td>
<td>2</td>
</tr>
<tr>
<td>PSY 5016L</td>
<td>Conjunctive Psychology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>One of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSC 5655</td>
<td>Theoretical Foundations of Health Care Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5115</td>
<td>Health Care Policy and Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5506</td>
<td>Advanced Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 45

Public Health

The M.P.H. provides students with a high quality, multidisciplinary perspective on public health to prepare them to be public health professionals. The M.P.H. degree is the most widely recognized professional credential for leadership in public health. The program core courses provide students with a background in environmental health, epidemiology, social and behavioral sciences, biostatistics, health services administration, and an internship in the public health/health care community. The required and elective courses offer students the opportunity to tailor their degree to best fit their career goals in public health. Public Health is a broad field that is open to students from diverse academic disciplines including health sciences, education, business, social and natural sciences, and others. This is a fully online program.

The M.P.H. Program is allied with several academic centers/certificate programs (see uwf.edu/sahls/certificate-ph/) that broaden the educational opportunities available to students in the program, including the Center for Health Care Ethics, the Alliance for Medical Informatics, the Program in Nursing, the Program in Medical Technology, and certificates in Medical Informatics, Health Care Ethics, Critical Care Nursing, Infection Control, Environmental Health, and others. Close relationships with state public health agencies in the region as well as with area hospitals and the military provide a strong foundation in the health care and public health communities for enhancing and broadening the internship/practicum opportunities for students in the program. Out-of-area students may arrange appropriate internship sites approved by the M.P.H. Curriculum Committee. The UWF M.P.H. Program is accredited by the Council on Education for Public Health (http://www.ceph.org).

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Graduate Management Admissions Test (GMAT) - under some circumstances the GMAT will be accepted.
- For students currently enrolled in a doctoral program in the health professions the respective admission test scores will be accepted.
- Work experience in the discipline
- Undergraduate GPA
- Basic computer competency
- Statement of Career Goals
- Submission of two personal writing samples (e.g., written reports completed by the applicant or other representative samples of professional writing skills).
- Submission of three letters of recommendation

Applicants with terminal degrees (Ph.D. or Ed.D.) or advanced professional degrees (M.D., D.D.S., D.V.M., J.D., D.O., M.S., M.A., etc.) from accredited programs and licensed in the United States may request to waive the graduate admission test requirement but must complete the other admission requirements.

Applicants with insufficient training in statistics or those who have taken a statistics course more than seven years ago may be admitted conditionally pending demonstration of proficiency in statistics within the first year in the program by taking and passing STA 2023 Elements of Statistics or equivalent prior to enrolling in PHC 5050: Biostatistics for Public Health (formerly STA 5176 Statistical Modeling). This is required for students with no background in statistics (e.g., a student who has never taken a course in statistics and highly advised for students who have taken a statistics course more than seven years ago). The credit earned in this course does not count toward the graduate degree.

If a student is an international applicant whose native language is not English or the student is from a country in which the primary language is not English, he or she must take an acceptable English proficiency test before applying for admission. Applicants to the University of West Florida are considered international students if they are not U.S. Citizens, dual citizens, or permanent residents. All such students should refer to the International Graduate Admission (p. 12) section of the current UWF Graduate Catalog for information pertaining to international applicants, including requirements for completion of and scores on the English proficiency test. Other criteria may apply.

Departmental Requirements - for a detailed explanation of admission requirements go to http://uwf.edu/graduate/programs/graduate-degrees/public_health_mph/
Degree Requirements

Students must earn and maintain an average grade of "B" or better in the M.P.H. Program in order to remain in good standing within the program and in order to graduate from the program. Students must achieve no less than a grade of "C" in any course in the M.P.H. Program. All students admitted after fall 2011 must complete a minimum of 12 semester hours per year.

At the end of their academic program, all students are required to take and pass a Comprehensive Examination with a grade of 70% or better in each of the five core course and five required course domains. See uwf.edu/sahls for additional information. All students are required to satisfactorily complete a supervised Public Health Internship (6 sh) involving field experience in a public health-related area and to submit a written report on research conducted during this capstone experience and to defend the conclusions and recommendations included in their report. The internship course requirement will be met for students with appropriate professional experience or who are currently enrolled in a medical residency program or in the final two years of medical school. No more than 49% of the program requirements for the degree may be taken in traditional business subjects.

Students qualified to enroll in graduate studies but who do not have the required documents by the application deadline date, or those who do not intend to work toward a graduate degree, may complete up to 12 hours as non-degree seeking students. The Academic Learning Plan for programmatic assessment of the M.P.H. Program which includes Student Learning Outcomes, is available at uwf.edu/sahls. Some exams in this program require proctoring at testing sites approved by the course instructor.

Core Courses (21 sh)

All students seeking a Master of Public Health degree must take all of the following core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5410</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6000</td>
<td>Epidemiology for Public Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6300</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5050</td>
<td>Biostatistics for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6150</td>
<td>Public Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6946</td>
<td>Internship in Public Health</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>21</strong></td>
<td></td>
</tr>
</tbody>
</table>

Required Courses (15 sh)

Students must complete 15 semester hours of required coursework from the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5123</td>
<td>Scientific Basis of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Study Design and Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Computer Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5XX1</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Electives (6 sh)

Students must choose 6 sh of coursework from the following in consultation with your academic advisor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5102</td>
<td>Public Health</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5856</td>
<td>Bioterrorism</td>
<td>3</td>
</tr>
<tr>
<td>MCB 5273</td>
<td>Epidemiology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6310</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6005</td>
<td>Disease Transmission in the Urban Environment</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Strategies for Prevention of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5205</td>
<td>Public Health Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5605</td>
<td>Legal Fundamentals of Healthcare and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5XX1</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSA 5197</td>
<td>Introduction to Medical Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Certificates

Public Health/Emergency Management (HEM) Certificate

Department: SAHLS

Method of Instruction: Online

Semester Hours: 9

Students will gain an understanding of disasters and their consequences with a focus on the role of the public health response. The principles of disaster planning, prevention, mitigation as well as the structure and organization of disaster response will be covered. Risk assessment, rapid health assessment, and surveillance will be covered. Topics include mental health issues, environmental services, public health preparedness, and special populations. This course is designed to provide an overview of the principles and strategies for the management of public health emergencies.

Public Health/Environmental Health (CEH) Certificate

Department: SAHLS

Method of Instruction: Online

Semester Hours: 12

This certificate is designed to prepare those working in public health, health care, and environmental sectors to deal with the plethora of environmental issues that impact human health.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6300</td>
<td>Environmental Health (formerly Survey of Environmental Problems)</td>
<td>3</td>
</tr>
</tbody>
</table>
The M.Ed. in Reading Education is designed to prepare educators as reading teachers, reading coaches, district-level literacy specialists, and publishing industry consultants. New cohorts are admitted in the **summer and fall** of each year. The application deadline for summer admission is **March 1**. The application deadline for fall admission is **June 1**.

Based on the International Reading Association’s Standards for Reading Professionals, this program integrates course work and clinical experiences to prepare graduates in the following areas:

- Foundations of reading and writing processes and instruction
- Instructional practices, approaches, methods, and curriculum materials to support reading and writing instruction
- Assessment tools and practices to plan and evaluate effective reading instruction
- Integration of foundational knowledge, use of instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments

### Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the applicant must meet the following minimum departmental admission requirements for **provisional** admission:

- Hold professional teaching certification
- Have earned a GPA of at least 3.0 on bachelor’s degree*
- Submit a current (within five years) official Graduate Record Exam (GRE) verbal score OR Miller Analogies Test (MAT) score
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references
- Demonstrate proficiency in ESOL via completion of an ESOL survey course or district in-service points
- Demonstrate proficiency of the Additional Elements of the Florida Uniform Core Curriculum (UCC)

**To be fully admitted** to the program, the following requirements must be met in addition to the requirements for provisional admission (above). **Full admission is required by the fifth week of the first semester**. Students will be unable to register for a second semester of coursework until full admission has been granted.

- Purchase and activation of a subscription to the Department’s assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20
- Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be **conditionally** admitted to the program.

All approvals for admission to the Department of Teacher Education and Educational Leadership are subject to reevaluation as students progress through the program. Students denied admission or removed

### Reading

The Reading Education Master’s Degree is an innovative, educational program that links literacy research to practical classroom practices. This 36-semester hour program is offered online, nationwide as an advanced degree program for credentialed teachers. The curriculum for the program is based on the International Reading Association standards which also encompass the Florida Department of Education Reading Endorsement and certification requirements. This advanced program requires several field experiences which may be arranged through the Department of Teacher Education and Educational Leadership Graduate Advising Office. Upon program completion, candidates are encouraged to add the Reading Endorsement/Certification to their teaching certificate. The program is approved for both the **K-12 Reading Endorsement and K-12 Reading Certification** by the Florida Department of Education. Reading is a critical shortage area in the state of Florida. The program is part of the NCATE accredited Professional Education Unit.

**Public Health/Infection Control (CIC) Certificate**

**Department: SAHLS**

**Method of Instruction:** Online

**Semester Hours:** 12

This certificate is designed primarily for health care workers concerned with infectious disease transmission in the nosocomial environment.

Choose four of the following:

- **PHC 5351** Occupational Safety and Health and Infection Control Environment
- **PHC 5352** Occupational Safety and Health in the Health Care Environment
- **PHC 6251** Disease Surveillance in the Urban Environment
- **PHC 6310** Environmental Toxicology
- **PHC 6351** Environmental Toxicology
- **PHC 6451** Disease Surveillance and Monitoring

**Total Hours** 9

**Public Health/Occupational Safety and Health (OSH) Certificate**

**Department: SAHLS**

**Semester Hours:** 9

This certificate is designed to meet the needs of public health practitioners who have collateral responsibility for worker safety and health as well as those assigned primary responsibility. The student will gain a broad based foundation in occupational safety and health that enhances recognition, evaluation and control of workplace hazards. Management tools and skills are identified and explored that can be implemented in the public practice health practitioner’s work environment to bring about improvements in worker safety and health.

Choose four of the following:

- **PHC 5351** Occupational Safety and Health Environment
- **PHC 5352** Occupational Safety and Health in the Health Care Environment
- **PHC 5353** Fundamentals of Occupational Safety and Health
- **PHC 5356** Fundamentals of Industrial Hygiene
- **PHC 5357** Environmental Toxicology
- **PHC 6251** Disease Surveillance and Monitoring

**Total Hours** 12

**Reading**

The Reading Education Master’s Degree is an innovative, educational program that links literacy research to practical classroom practices. This 36-semester hour program is offered online, nationwide as an advanced degree program for credentialed teachers. The curriculum for the program is based on the International Reading Association standards which also encompass the Florida Department of Education Reading Endorsement and certification requirements. This advanced program requires several field experiences which may be arranged through the Department of Teacher Education and Educational Leadership Graduate Advising Office. Upon program completion, candidates are encouraged to add the Reading Endorsement/Certification to their teaching certificate. The program is approved for both the **K-12 Reading Endorsement and K-12 Reading Certification** by the Florida Department of Education. Reading is a critical shortage area in the state of Florida. The program is part of the NCATE accredited Professional Education Unit.
from the program may appeal the decision to the Dean, College of Education and Professional Studies.

Department of Teacher Education and Educational Leadership students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

**Degree Requirements**

A grade of C or better is required for all coursework to be applied to the degree program.

- LAE 5345 Teaching Pupils to be Effective Writers 3
- LAE 5468 Literature for Children and Young Adults 3
- RED 5515 Classroom Reading Assessments 3
- RED 6060 Foundations of Middle and Secondary Literacy 3
- RED 6116 Foundations of Early Literacy 3
- RED 6240 Differentiating Instruction 3
- RED 6546 Identifying and Preventing Reading Difficulties 3
- RED 6747 Research and Trends in Reading 3
- RED 6866 Practicum in the Clinical Teaching of Reading 3
- RED 7247 The Organization and Administration of Reading Programs 3
- EDF 6460 Foundations of Measurement 3
- RED 6911 Action Research: Reading 3

**Total Hours** 36

Students must also successfully pass Florida Teacher Certification Examinations:
- General Knowledge
- Professional
- Subject Area
- Reading

**Social Work**

The M.S.W., accredited by the Council on Social Work Education, prepares students for ethical, competent, independent social work practice. The program focus is Clinical Community Practice with individuals, families, groups and communities. The M.S.W. program of study is designed to meet the course requirements of those students who wish to pursue a clinical social work license in Florida and to meet the diverse needs of the local community (e.g., rural, small town, metropolitan and economically disadvantaged service areas). The Department of Social Work currently has two specializations for the M.S.W. program, Regular and Advanced Standing.

The Traditional M.S.W. program is a 60 sh graduate level course of study which can be completed either full-time or part-time. The full-time program in social work is designed to be completed in five consecutive semesters. The part-time program in social work is designed to be completed in seven consecutive semesters. All full-time work should be completed in two years and all part-time work should be completed within a maximum of four years under unusual circumstances.

A one-year Advanced Standing option is available for those students who enter the program with a B.S.W. from a CSWE accredited program within seven years of graduation and meet the admission requirements. The advanced standing program is a 30 sh graduate level course of study which can be completed within three consecutive semesters.

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Academic preparation as demonstrated by quality and relevance of undergraduate degree major
- Submission of three recommendation forms from professional individuals familiar with the applicant’s ability to succeed in a graduate program. Advanced Standing applicants must include one recommendation form from a supervisor who provided supervision during their 400-hour senior field placement.
- Submission of the MSW Criminal History Form
- Submission of a copy of final evaluation (only required for Advanced Standing applicants who received their undergraduate social work degree from an institution other than UWF).
- Work experience as documented on the Social Work Supplemental Application Questions.

**Traditional Specialization**

**Traditional Program Requirements**

The foundation year is 30 semester hours (sh). It includes a professional core of 24 sh, one elective (3 sh), and a field placement (3 sh). The field placement is 300 hours of agency-based field work that complements the foundation year of study.

The concentration (advanced) year is 30 semester hours (sh). The concentration year of the program includes a professional core of 18 sh, three electives (9 sh), and two field placements (6 sh). The field placements are each 300 hours of agency field work that run consecutively beginning in fall through the end of spring semester.

Students must maintain a 3.0 GPA average in their graduate coursework. Students must satisfactorily complete field placement work to receive the M.S.W. degree. Students must complete their M.S.W. program course work within five years of admission to the program.

**Degree Requirements**

**Foundation Curriculum (30 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 5105</td>
<td>Human Behavior in the Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5106</td>
<td>Human Behavior in the Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5218</td>
<td>Analysis of Social Service Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5305</td>
<td>Generalist Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5324</td>
<td>Generalist Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5454</td>
<td>Social Work Research Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5532</td>
<td>Foundation Year Field Instruction and Integrative Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5629</td>
<td>Human Diversity and Social Justice</td>
<td>3</td>
</tr>
</tbody>
</table>
advanced knowledge, contextualization, and requisite skills of program is to develop curriculum-related content experts through and training, social sciences, or the military. The purpose of the Ed.S. in Curriculum and Instruction is designed primarily

### Advanced Year Field Instruction and Integrative Seminar I
- Clinical Practice I (3)
- Psychopathology for Social Work (3)
- Advanced Year Field Instruction and Integrative Seminar I (3)
- Evaluation of Social Work Practice (3)
- Clinical Practice II (3)
- Advanced Seminar in Clinical Social Work Practice (3)
- Advanced Year Field Instruction and Integrative Seminar II (3)
- Electives in Advanced Clinical Practice (9)

**Total Hours**: 30

### Concentration Curriculum (30 sh)

- SOW 6618 Clinical Practice I (3)
- SOW 6125 Psychopathology for Social Work (3)
- SOW 6535 Advanced Year Field Instruction and Integrative Seminar I (3)
- SOW 6432 Evaluation of Social Work Practice (3)
- SOW 6619 Clinical Practice II (3)
- SOW 6548 Advanced Seminar in Clinical Social Work Practice (3)
- SOW 6536 Advanced Year Field Instruction and Integrative Seminar II (3)
- Electives in Advanced Clinical Practice (9)

**Total Hours**: 30

### Advanced Standing Specialization

Only graduates of baccalaureate social work programs accredited by CSWE are eligible for advanced standing admission.

### Advanced Standing Requirements

- Applicant for advanced standing must possess an undergraduate degree IN SOCIAL WORK FROM A CSWE ACCREDITED PROGRAM.
- Applicant must have a GPA of 3.5 or better.
- Applicant must have earned their B.S.W. degree within 7 years of admission to the program.
- Additional admissions requirements are listed under the admission requirements section (above).

The Advanced Standing program is 30 semester hours (sh). The concentration year of the program includes a professional core of 18 sh, three electives (9 sh), and two field placements (6 sh). The field placements are each 300 hours of agency field work that run consecutively beginning in fall through the end of spring semester. Students whom are admitted with the advanced standing option complete this year of study.

Students must maintain a 3.0 GPA average in their graduate coursework. Students must satisfactorily complete field placement work to receive the M.S.W. degree. Students must complete their M.S.W. program course work within five years of admission to the program.

### Advanced Curriculum (30 sh)

- SOW 6618 Clinical Practice I (3)
- SOW 6125 Psychopathology for Social Work (3)
- SOW 6535 Advanced Year Field Instruction and Integrative Seminar I (3)
- SOW 6432 Evaluation of Social Work Practice (3)
- SOW 6619 Clinical Practice II (3)
- SOW 6548 Advanced Seminar in Clinical Social Work Practice (3)
- SOW 6536 Advanced Year Field Instruction and Integrative Seminar II (3)
- Electives in Advanced Clinical Practice (9)

**Total Hours**: 30

### Curriculum and Instruction

The Ed.S. in Curriculum and Instruction is designed primarily for professionals who hold positions of leadership in education and training, social sciences, or the military. The purpose of the program is to develop curriculum-related content experts through advanced knowledge, contextualization, and requisite skills of individuals who work in a variety of leadership settings. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making and problem solving. Student backgrounds include, but are not limited to, public school personnel, community college and university personnel, social and health related personnel, and military personnel.

### Admission Requirements

Admission to the Ed.S program is a selective process, therefore, meeting the minimum eligibility criteria stated below does not guarantee admission into the program. Applicants for the specialist program must meet all university and departmental admission requirements. Preference for admission will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study.

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Master's GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals
- Overall fit with the program

Students are strongly encouraged to remain in close contact with the department advising coordinator as well as the program coordinator to ensure that all application materials are submitted in a timely manner.

### Foundational Proficiencies

Foundational Proficiencies are not part of the degree program and should be completed prior to admission.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 6

### Degree Requirements

To be eligible for the Ed.S., a student must complete all requirements listed in the Graduation and General Degree Requirements (p. 42) section of this catalog along with the specific course requirements listed below. Students are required to receive at least a B- or above in all course work.

Students will complete the 15 semester hour professional core and complete one of the 21 semester hour options. Within the option, students will select an area of emphasis. The Curriculum and Diversity Studies Specialization is housed in the Department of Research and Advanced Studies. The Instructional Technology Specialization is housed in the Department of Instructional and Performance Technology.

Capstone experiences are tailored to the student's professional goals and may include internships such as EME6946, research design...
courses such as EME7938 or similar courses in the student's area of specialization.

All students must complete a comprehensive examination prior to graduation.

Program Requirements (36 sh)

Professional Core

- EDF 6475 Qualitative Research I - Methods 3
- EDF 7407 Educational Statistics II: General Linear Model 3
- EDF 7685 Educational Foundations: A Philosophical and Multicultural Analysis 3
- EDG 7346 Advanced Analysis of Curriculum and Instruction 3
- EME 6316C Instructional Management and Technology 3

Total Hours 15

Curriculum and Diversity Studies Option

Students must complete one of the following emphases in the Curriculum and Diversity Studies Option:

Advanced Studies Emphasis

Students will complete a specialization that focuses on the following areas:

1. critical, multicultural, and feminist pedagogical practices
2. social transformation and change
3. social and political issues in education
4. reform and activist movements
5. curriculum development and delivery strategies
6. educational and social science research and evaluation methods

Correctional Education and At-Risk Juvenile and Adult Populations Emphasis

This emphasis is designed for students who are currently in correctional education settings or anticipate future assessments working with at-risk juvenile and adult populations or administering programs in these areas.

Instructional Technology Option

Students must complete one of the following emphases in the Instructional Technology Option:

Performance Technology Emphasis

This option emphasizes theoretical and applied perspectives for considering how individual and organizational performance can be enhanced through the systematic use of innovative instructional technologies, training, feedback systems, and incentive systems.

Distance Learning Emphasis

Students learn how to design distance infrastructures, establish policy directives within organizations, support student performance, develop instructional materials, and implement distributed systems and portable media.

Educational Leadership

This program is designed primarily for professionals who hold positions of leadership in education or who aspire to provide educational leadership. The purpose of the program is to develop and enhance the functional capability of educational leaders. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making.

The degree is designed to meet the educational needs of regional place-bound, full-time employed professionals. Successful applicants should have experience in the field of education. The Ed.S. program will prepare professionals in the community to assume administrative and leadership positions.

The Florida Department of Education requires that all students graduating with a graduate degree in Educational Leadership must pass the Florida Educational Leadership Examination (FELE) as a condition of completing their degree and receiving certification for school administration.

Admission Requirements

Admission to the Ed.S. program is a selective process, therefore, meeting the minimum eligibility criteria stated below does not guarantee admission into the program in the School of Education. Applicants for the specialist program must meet all University and School of Education admission requirements. Preference for admission will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study.

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- A desired minimum verbal and quantitative GRE or MAT score that falls above the 50th percentile.
- Submission of a writing sample that passes a faculty review. This writing sample should be the student's previous "best" work demonstrating fluency, organization, and correct use of grammar.
- Contact information for two professional references.
- Master's GPA.
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference (the Graduate Advising Office will contact each professional reference with instructions).

All approvals for admission to the School of Education are subject to reevaluation as the student progresses through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

In addition to general University degree requirements, students seeking the Ed.S. in Educational Leadership must meet the requirements listed below.
Foundational Proficiencies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

Degree Requirements

To be eligible for the Ed.S., a student must complete all requirements listed in the Graduation and General Degree Requirements (p. 42) section of this catalog along with the specific course requirements listed below. Students are required to receive at least a B- or above in all course work.

All students must complete a comprehensive examination prior to graduation.

Program Requirements

Professional Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7407</td>
<td>Educational Statistics II: General Linear Model</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7685</td>
<td>Educational Foundations: A Philosophical and Multicultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7346</td>
<td>Advanced Analysis of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EME 6316C</td>
<td>Instructional Management and Technology</td>
<td>3</td>
</tr>
<tr>
<td>EME 6317</td>
<td>Instructional Technology for Educational Leaders *</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
* EME 6317 is required for students in the Certification Option.

Educational Leadership Administrative Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 7217</td>
<td>Effective Communication Techniques</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7423</td>
<td>School Reform: Research to Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7931</td>
<td>Seminar with High Performing Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td>Electives (approved by program advisor and department chair)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Educational Leadership Certification Option

In addition to completing required coursework, students in the Educational Leadership Certification Option must:

- Successfully complete the Florida Educational Leadership Exam (FELE)
- Students who do not hold a current valid teaching certificate must meet the following:
  - ESOL requirement of sixty hours of ESOL district in-service points or three credit hours in an ESOL survey course, such as TSL 5085
  - Florida Reading Competency II
- Purchase a subscription to the School of Education's assessment system, Tk20, by the first week of the first semester
- Complete the Professional Education Applicant Disposition Scale in Tk20 by the fifth week of the first semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 5191</td>
<td>Leadership in Education: School Improvement Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6063</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6222</td>
<td>Administration of School Personnel</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6232</td>
<td>Law and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6240</td>
<td>Introduction to School Finance</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Doctoral Degree

The Doctor of Education in Curriculum and Instruction is designed to meet the educational needs of a wide variety of professionals with backgrounds that include, but are not limited to, education and training professionals; community college, state college, and university personnel; social and health related personnel; community civic leaders; and military personnel. The Ed.D. program prepares professionals to assume administrative, higher education, and other leadership positions. The successful candidate will conduct and evaluate applied research studies that emphasize local, regional, and state issues and problems within their respective fields.

The Ed.D. in Curriculum and Instruction offers specializations in Administrative Studies, Curriculum Studies, Diversity Studies, Higher Education, Instructional Technology, Physical Education and Health, Sciences and Social Sciences, and Teacher Education.

Students must successfully complete a preliminary examination, proposal defense, dissertation defense, and submit an approved dissertation to be eligible for graduation. The criteria listed below are the minimum Ed.D. program requirements. Each specialization area may have additional requirements. Contact should be made with the specialization area to determine additional requirements.

Admission Requirements

Applicants for admission to the Doctor of Education (Ed.D.) Program shall meet the minimum eligibility criteria prior to admission, as well as other published requirements for specific specialization areas of study. Applicants are advised to consult with representatives from their chosen specialization for further information and admission requirements. Because the number of students who may be enrolled in the Ed.D. Program at any time is limited; admission to the program is selective. Therefore, meeting the minimum eligibility criteria does not guarantee admission to the program. Preference for admission to any semester will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study.

In addition to the University graduate admission requirements described in the Admissions section (p. 9) of the catalog, each department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduation tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Master’s GPA
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

Additionally applicants must:

A. Submit a written goal statement to be reviewed by the specialization faculty; and
B. Complete a College of Professional Studies Ed.D. Specialization Declaration Form, which is included in the graduate admission application.

Departments housing the specializations may have additional admission requirements. Some specializations admit applicants once per year; contact the specialization's program coordinator for specific admission requirements.

In addition to general University degree requirements, students seeking the Ed.D. in Curriculum and Instruction must meet the requirements listed below:

**Foundational Proficiencies (6 sh)**

Foundational Proficiencies are not part of the degree program and should be completed prior to admission.

- EDF 6404 Educational Statistics I 3
- EDF 6481 Educational Research 3

**Degree Requirements**

To be eligible for an Ed.D. degree in Curriculum and Instruction, a student must complete a minimum of 66 semester hours including all requirements listed in the Graduation and General Degree Requirements (p. 42) section of this catalog along with the Professional Core, Specialization, and Dissertation Requirements listed below:

**Professional Core Requirements (24 sh)**

- EDF 6475 Qualitative Research I - Methods 3
- EDF 7191 Psychological Foundations for Education: Cognition, Curriculum, and Instruction 3
- EDF 7407 Educational Statistics II: General Linear Model 3
- EDF 7489 Advanced Research Methods 3
- EDF 7685 Educational Foundations: A Philosophical and Multicultural Analysis 3
- EDF 8289 Curriculum Design 3

Choose one Advanced Quantitative or Qualitative Methods course:

- EDF 7437 Measurement and Single Case Design 3
- EDF 8486 Advanced Quantitative Research and Statistics 3
- EDF 8906 Advanced Qualitative Research and Strategies: Special Topics 3

Choose one Critical Issues Elective:

- EDF 7638 Social Change and Reform 3
- EDG 7070 Managing Learning Environments 3
- EDG 7225 Teaching Critical and Social Issues 3
- EDG 7241 Social Justice and Inequities 3
- EDG 7303 Analysis of Learning and Teaching Practices 3
- EDG 7346 Advanced Analysis of Curriculum and Instruction 3
- EDG 7900 Special Topics and Critical Issues in Teaching and Learning 3
- EME 7063 Research on Emerging and Innovative Technology Systems 3

**Specialization Area (24 sh)**

**Dissertation Requirement (18 sh)**

**Administrative Studies Specialization**

The Administrative Studies Specialization focuses on educational systems, change theory, and leadership theory.

**Curriculum Studies Specialization**

The Curriculum Studies Specialization targets individuals in public and private sectors who want to specialize in theory and practice of curriculum issues and development. This program is developed around general theory-based curriculum issues coupled with various professional areas that meet each individual student need.

Students will select 24 semester hours of required course work in this specialization, including these courses:

- EDF 6725 Critical Issues in American Education 3
- EDG 7458 Analysis of Alternative Assessment Methods 3
- EME 6256 Creativity and Innovation in the Learning Organization 3
- EME 6314 Technology for Leaders 3
- Advisor approved electives including one assessment course 9

Choose one:

- EDG 7935 Research Design Seminar 3
- EME 7938 IT Research Design Seminar 3

Total Hours 24

**Diversity Studies Specialization**

The specialization in Diversity Studies is designed to promote an understanding of contemporary discord related to historical events, philosophical perspective, civil rights, race relations, gender equity, socioeconomic status, and censorship of groups, institutions, and ideas. Graduates in this specialization will be able to develop possible solutions for social justice concerns and inequities while making connections based upon historical perspective, ideological considerations, and research. Majors in Diversity Studies would bring expertise to the following fields: community health, social work, the military, social services, education, law, research, and non-profit groups. This is a face-to-face program of study that meets on the Pensacola campus and requires some field experience.

- EDF 8698 Censorship 3
- EDF 8936 Advanced Qualitative Research and Strategies: Special Topics 3
- EDF 8088 Diversity & Civil Rights in Education 3
- Advisor approved electives related to the specialization 15

Total Hours 24

**Higher Education Specialization**

The specialization in higher education will prepare students for leadership in colleges and universities. Graduates of the program in higher education will master a body of knowledge related to the field of higher education. The program will provide a broad overview of the institutions, policies, practices, personnel, programs, and services of institutions of higher education. Students who earn the degree in higher education will contribute to higher education practice and research regionally, nationally, and globally. Students will acquire a professional knowledge and understanding of colleges and universities as social and cultural institutions.

- EDH 6051 Introduction to Higher Education 3
- EDH 6405 Legal Issues in Higher Education 3
- EDH 6505 Budgeting, Finance, and Governance in Higher Education 3
- EDH 7205 Curriculum Development in Higher Education 3
- EDH 7632 Leadership in Higher Education 3
- EDH 7633 Governing Colleges and Universities 3
- EDH 7635 Organization and Administration of Higher Education 3

Total Hours 24
Instructional Technology Specialization

The Instructional Technology Specialization offers two options: Performance Technology or Distance Learning. The Performance Technology option targets individuals who want to investigate how instructional technology can be used to improve performance and learning in various educational environments. Students explore a variety of delivery systems and the influence of technology on performance and learning as they develop a framework for improving performance. The Distance Learning option targets individuals who want to develop expertise in theoretical constructs for an application of distance educational systems including: design, development, implementation, and evaluation. Students choose from a variety of courses depending upon their future goals and examine distance learning environments, web-based instruction, delivery systems, and instructional design.

Performance Technology Option

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24

Distance Learning Option

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24

Physical Education and Health Specialization

This 24 sh specialization is for professionals in the field of health and physical education directly responsible for addressing health and physical concerns of individual students, classroom students, school-wide groups of students, school district student populations, and children and adults in the community at large. The primary focus is on school-based health and physical education; however, the program is designed to prepare professionals to teach or administer programs at the university, college, K-12 schools, or in the community.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 5701</td>
<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6003</td>
<td>Advanced Theoretical Models of Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6516</td>
<td>Advanced Assessment and Evaluation in Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6535</td>
<td>Strategic Planning and Instructional Design in PE and Health</td>
<td>3</td>
</tr>
<tr>
<td>PET 6708</td>
<td>Research on Teaching Physical Education and Health</td>
<td>3</td>
</tr>
<tr>
<td>PET 6774</td>
<td>Models of Teaching in Physical Education and Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Approved electives in field

Total Hours 6

Total Hours 24

Sciences and Social Sciences Specialization

The Sciences and Social Sciences Specialization offers two options: Mathematics and Statistics/Science/Computer Science option or Social Science option. The Mathematics and Statistics/Science/Computer Science option targets individuals who want to become program specialists or teach at the junior/community college level in the program areas. The Social Science option targets individuals who want to specialize in specific academic discipline areas of social sciences to complement their academic training in the area of education.

Mathematics and Statistics, Science, or Computer Science Options

Students will select 24 semester hours of course work within Mathematics/Statistics, Science or Computer Science, or an advised combination of courses from the content area.

Total Hours 24

Social Sciences Option

Students will select 24 semester hours of course work within the Social Sciences.

Total Hours 24

Teacher Education Specialization

The Teacher Education Specialization area offers two options: Alternative/Special Education or Teaching and Learning. The Alternative/Special Education option targets individuals who want to assume leadership roles in working with populations of at-risk children and youth. The Teaching and Learning option targets individuals who want to become leaders in teaching and learning and related content areas. This program facilitates a leadership role in teaching and learning, junior/community college, and educational agencies.

Alternative/Special Education Option

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24

Teaching and Learning Option

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24
Course Information

In this section:
- Course Descriptions (http://catalog.uwf.edu/courseinformation/courses)
- General Course Information (p. 101)
- Course Schedule by Semester (https://erpapp.banner.uwf.edu/PROD/bwckschd.p_disp_dyn_sched)
- Equipment Fees (p. 103)
- Material and Supply Fees (p. 106)

General Information

Florida Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 25 participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

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

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

Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>English</td>
<td>Lower Freshman</td>
<td>Freshman</td>
<td>Freshman</td>
<td>No laboratory</td>
</tr>
<tr>
<td></td>
<td>Composition</td>
<td>Level at this institution</td>
<td>Composition in this course</td>
<td>Skills</td>
<td>Skills I this course</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, as listed below in Exception to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by 56 different postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "ENC" means "English Composition," the century digit "1" represents "Freshman Composition," the decade digit "0" represents "Freshman Composition Skills," and the unit digit "1" represents "Freshman Composition Skills I."

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

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

The Course Prefix

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

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

"Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure
that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students."

Exceptions to the General Rule for Equivalency

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

A. Courses not offered by the receiving institution.

B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.

C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.

D. College preparatory and vocational preparatory courses.

E. Graduate courses.

F. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.

G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

UWF course equivalents are determined based on the Statewide Course Numbering System (SCNS), or if not part of the SCNS, after consultation with the appropriate academic departments. Factors that may be considered in making determinations for transfer of credit and for course equivalents include, but are not limited to, course description, course student learning outcomes, course syllabi, course text and other learning materials, qualifications of the course instructor, accredited status of the institution originally awarding the credit, time elapsed since the course work was completed, and student grades in courses taken at UWF.

Courses at Nonregionally Accredited Institutions

The SCNS makes available on its home page (http://scns.fldoe.org) a report entitled “Courses at Nonregionally Accredited Institutions” that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course’s transfer level and transfer effective date. This report is updated monthly.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to the Registrar's Office or to 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 the SCNS office at (850) 245-0427 or at http://scns.fldoe.org.

How to Find Courses

Please consult the Course Descriptions (http://catalog.uwf.edu/courseinformation/courses) section of the catalog for specific course information.

Course Level

Lower Division Courses have a “1” or “2” as the first digit of the course number. Upper Division Courses have a “3” or “4” as the first digit of the course number.

Graduate Courses have a “5,” “6,” “7,” or “8” as the first digit of the course number.

Classification of Courses

The University course numbering system is as follows:

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Open To</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-2999</td>
<td>Freshman, sophomores, and non-degree students, unless otherwise noted</td>
</tr>
<tr>
<td>3000-4999</td>
<td>Open to freshmen, sophomores, juniors, seniors, and non-degree students</td>
</tr>
<tr>
<td>5000-5999</td>
<td>Open to all degree-seeking and non-degree graduate students. Juniors and seniors may register for 5000-level courses under certain conditions</td>
</tr>
<tr>
<td>6000-7999</td>
<td>Restricted to students enrolled in graduate programs and other post baccalaureate students who may be admitted at the discretion of the department chairperson. Non-degree students must have permission of the specific course instructor to register for 6000-level courses</td>
</tr>
<tr>
<td>8000-8999</td>
<td>Restricted to students enrolled in the doctoral program</td>
</tr>
</tbody>
</table>

Restricted Courses

Departments may restrict enrollment in specific courses to students in the major or other categories of students based on academic needs and requirements. These courses are noted in the online course search. Students should refer to the Registration Error Messages (https://confluence.uwf.edu/display/public/Registration+Error+Messages) guide if a registration error is encountered due to a course restriction.

Unassigned Course Numbers (XXX and ——)

Courses listed in degree plans with XXX as the last three digits of a course number are pending assigned course numbers within the Statewide Common Course Numbering System. Information concerning these courses must be obtained from the offering department.

Hours

The number of credit hours follows each course listing. Directed study, internship, thesis, practicum, and some other courses are
offered on a variable hours basis. For these courses, the minimum and maximum number of hours will be indicated. The number of hours will be determined in consultation with the instructor and advisor.

**Semester Course Offered**

Please consult the academic department offering a course for information concerning semester(s) in which a particular course is normally offered. Potential course offerings are subject to change based upon student enrollment, faculty availability, program changes, etc. Students should contact their advisor when developing schedules to ensure timely completion of prerequisites and courses required for graduation.

**Course Prerequisites/Corequisites**

It is the student's responsibility to review the prerequisite and corequisite requirements included as part of the course search. Refer to Searching for Courses (https://confluence.uwf.edu/display/public/Searching+for+Course+Offerings) for step-by-step instructions on how to search for a course and view the prerequisites and/or corequisites. For further information about prerequisites and corequisites, please contact the offering department and review the information found in the Registration Policies & Procedures (http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#courseprerequisites/corequisites) section of this Catalog.

**990-999 Course Numbers**

Courses in the 990-999 series are not identified in the University catalog and are exceptions to the general rule for course equivalencies and may not be transferable. Transfer credit is at the discretion of the receiving institution. These courses are semester specific and may change in title, content, and credit hours.

**Courses with Special Fees**

**Equipment Fees**

**Material and Supply Fees**

**Equipment Fees**

Equipment fees are assessed by departments to offset the cost of significant equipment that is used to prepare students for their careers or professions and are used for instructional purposes only with direct use by students.

**Anthropology**

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<tr>
<td>ANT 4835*</td>
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*Summer course only. **Summer only course. Fees vary depending on use of terrestrial ($100) or maritime ($200) methods.

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**Chemistry**

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**Exercise Science & Community Health**

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**Material and Supply Fees**

Material and supply fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction.

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Course Descriptions

ACCOUNTING: GENERAL Courses

ACG 2021 Principles of Financial Accounting
3 sh (may not be repeated for credit)
Introduction to financial accounting as an information and decision support system for users of financial information.

ACG 2071 Principles of Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021
Role of accounting as a tool in decision making process within economic framework of the firm.

ACG 3082 Accounting for Non-Majors
3 sh (may not be repeated for credit)
Coverage of financial, managerial, and cost accounting topics with an emphasis on uses of accounting information; available to non-business majors only.

ACG 3101 Intermediate Financial Accounting I
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570

ACG 3111 Intermediate Financial Accounting II
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101 AND FIN 3403
Continuation of ACG 3101.

ACG 3172 Financial Accounting Topics
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Explain/analyze complexities of leases, pensions, income taxes, long-term debt, long-term investments, stockholders' equity, accounting changes, and other financial components from a financial statement user perspective. Available to non-accounting majors only.

ACG 3180 Financial Statement Analysis
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Introduction to the study of financial statements, including interpreting accounting data and analyzing financial statements. Cross listed with FIN 3461.

ACG 3311 Applied Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021 AND ACG 2071
 Gives students an opportunity to have basic business decision making skills on accounting information. Students will analyze cases involving various business situations. Topic areas to be covered include financial statement analysis, cost-volume-profit analysis, budgeting, performance evaluation, and special decision making. Available to non-accounting majors only.

ACG 3343 Cost Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570
Provides students with the skills to prepare accounting information for use in the management decision making process. Contains material on accounting system design, budgeting, standard costing, direct costing, performance evaluation, and use of accounting information.

ACG 3401 Accounting Information Systems
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Design of systems to capture, process and report accounting information.

ACG 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ACG 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation, confirming educational and career goals, personal and professional development, early start in career, earnings toward self-support, and improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of the director of Cooperative Education is required.

ACG 4151 Accounting Theory
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111
Critical evaluation of broad framework of financial accounting theory.

ACG 4174 Special Topics in Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Provides exposure to recent issues and developments in financial accounting and the more significant areas that are of continuing interest. Offered concurrently with ACG 5807; graduate students will be assigned additional work. derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with ACG 5807; graduate students will be assigned additional work.

ACG 4201 Advanced Financial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111
Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with ACG 5205; graduate students will be assigned additional work.

ACG 4501 Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111
Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with ACG 5658; graduate.
ACG 4651 Auditing
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111 AND ACG 3401
Philosophy of financial auditing by public accountant; techniques and procedures to investigate and appraise accounting systems and financial statements; types of opinions, current literature, and official pronouncements; ethical and legal implications.

ACG 4682 Forensic Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
The purpose is to acquaint the student with both the pervasiveness of and the causes of financial fraud in our society, and to explore in detail the methods in which financial fraud is perpetrated.

ACG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ACG 4941 Accounting Internship
1-6 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Supervised field practicum in accounting-related position. May include activities in professional accounting, accounting information systems, or controllership. Graded on satisfactory / unsatisfactory basis only. Permission is required.

ACG 5205 Advanced Financial Accounting
3 sh (may not be repeated for credit)
Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations and partnerships. Offered concurrently with ACG 4201; graduate students will be assigned additional work.

ACG 5255 International Accounting
3 sh (may not be repeated for credit)

ACG 5658 Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with ACG 4501; graduate students will be assigned additional work.

ACG 5807 Special Topics in Accounting
3 sh (may not be repeated for credit)
Provides exposure to recent issues and developments in financial accounting and the more significant traditional areas that are of continuing interest. Derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with ACG 4174; graduate students will be assigned additional work.

ACG 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ACG 6308 Advanced Managerial Accounting
3 sh (may not be repeated for credit)
Management control and behavior, control structures, responsibility accounting, cost / profit / investment centers, budgets and performance evaluation, control of projects, control in service, and non-profit organizations.

ACG 6309 Accounting Aspects of Business Policy Determination
3 sh (may not be repeated for credit)
Budgeting, profit planning and controlling aspects of business policy determination. Available to non-accounting majors only.

ACG 6405 Accounting Information Systems
3 sh (may not be repeated for credit)
A seminar for the study of contemporary accounting system topics with an emphasis on internal controls. Primary emphasis is placed on an accounting system design project.

ACG 6805 Seminar in Financial Accounting
3 sh (may not be repeated for credit)
A blend of traditional and contemporary accounting issues with focus on the development of financial accounting theory, the relationship of theory and research to standard setting, and discussion of current accounting standards. Examines the objectives, measurement models, controversies, and philosophy of financial accounting.

ACG 6856 Advanced Auditing
3 sh (may not be repeated for credit)
This course is designed to broaden students' conceptual and technical understanding of attestation services, assurance services, and services related to unaudited financial statements. The course includes research, interpretation, and application of current professional standards for auditing, assurance, review, and compilation services that are performed in industry, governmental, nonprofit, and international environments.

ACG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ADULT EDUCATION Courses

ADE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ADVERTISING Courses

ADV 2214 Advertising Graphics I
3 sh (may not be repeated for credit)
Provides an introduction to the use of computers in the communication professions. Students will get "hands-on" experience using selected Adobe Creative Suite applications (Photoshop, Illustrator, and InDesign) for advertising and publication design on a Mac platform. Some basic design principles will be introduced along with the use of software. Acceptable prerequisite for advanced computer-based Communication Arts courses. Course restricted to students in the Major or Minor in Communication Arts.

ADV 3000 Introduction to Advertising
3 sh (may not be repeated for credit)
Advertising as an institution, strategy development, and creative execution in the advertising media. Provides a basic understanding of the advertising process, advertising's role in society, its procedures and practices.
ADV 3101 Creative Strategy & Tactics I  
3 sh (may not be repeated for credit)  
Prerequisite: ADV 2214 AND ADV 3000  
Covers the strategy, conceptualization, and execution of effective advertising. Professional advertising writing and art direction for both print and broadcast will be addressed. Familiarity with desktop publishing, especially Adobe Creative Suite is required.

ADV 3213 Advertising Graphics II  
3 sh (may not be repeated for credit)  
Prerequisite: ADV 2214  
Addresses professional publication design theory and practice. Subjects include magazine, newsletter, collateral, and brochure design. Design topics include: typography, grids, graphics, paper, color, and identity. Commercial and desktop publishing are incorporated from a designer's viewpoint. Familiarity with desktop publishing, especially Adobe Creative Suite and Macintosh platform is required. Credit may not be received in both ADV 3213 and ADV 3213C.

ADV 3300 Advertising Media  
3 sh (may not be repeated for credit)  
Prerequisite: ADV 3000  
Analysis and evaluation of advertising media, market analysis, media planning, media strategies, discussions, and costs. Credit may not be received in both ADV3300 and ADV 3300C.

ADV 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

ADV 4202 Creative Strategy and Tactics II  
3 sh (may not be repeated for credit)  
Prerequisite: ADV 3101  
Advanced creative direction theory and execution. Course will build professional level portfolio. Students will learn how to find a job opening, create job search materials (including an advertising portfolio), acquire the skills needed to apply and interview for a job, and learn how to successfully negotiate getting hired. Students will also gain valuable experience learning to rely on themselves, and their own resourcefulness to succeed in class and life.

ADV 4801 National Student Advertising Competition  
3 sh (may be repeated for up to 6 sh of credit)

Preparation for American Advertising Federation competition. Student agency prepares complete campaign, including: market research and segmentation, media and promotion plans, strategy, creation, and presentation. Professional standards stressed. Permission is required. Credit may be received in ADV 4801 and ADV 4801C up to 6 sh.

ADV 4802 Integrated Communication-Campaigns  
3 sh (may not be repeated for credit)  
Prerequisite: ADV 3101  
The capstone experience for advertising and public relations majors. Prepare complete integrated communication campaign, including: research, strategy, design, copy, and presentation to client. Senior major or minor status in advertising or public relations required.

ADV 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

ADV 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

AFRICAN HISTORY Courses

AFH 4503 Africans in the Atlantic World  
3 sh (may not be repeated for credit)

Africans comprised roughly two-thirds of 12 million migrants to the Americas between the 15th and 19th centuries. Course examines their experiences and their descendants in the making of the Atlantic world. Surveys critical time periods, institutions, individuals, and events, in the development of Creole societies throughout the Atlantic littoral. Emphasis placed on the construction of a "black Atlantic" identity among Africans and African-descended people throughout the Atlantic world. Special attention is paid to the history of West Africa. Story is told from an African point of view.

AIR FORCE: AEROSPACE STUD Courses

AFR 1000 Air Force ROTC Physical Training  
0 sh (may not be repeated for credit)

A mandatory course for all AFROTC students. The purpose is to enhance the fitness level of cadets and prepare them to meet AFROTC and Air Force standards, motivate cadets to pursue a physically fit and active lifestyle, improve both the safety and efficiency of physical training within AFROTC, AFROTC-sponsored PT activities include, but are not limited to, conditioning exercises, calisthenics, 1.5 mile run (PFT), Warrior Runs, etc. The Cadet PT program is an essential component of Leadership Laboratory. In order to successfully complete the PT portion of Leadership Laboratory, cadets must meet the attendance requirements IAW AFROTCI 36-2017, paragraph 1.

AFR 1101 The Foundations of the United States Air Force I  
1 sh (may not be repeated for credit)

Study of the Air Force in the contemporary world. Examines the U.S. Air Force mission and organization, officerhip and professionalism, military customs and courtesies, and an introduction to community skills. Leadership laboratory activities are included.

AFR 1101L The Foundations of the United States Air Force I Lab  
0 sh (may not be repeated for credit)  
Co-requisite: AFR 1101

AFR 1112 The Foundations of the United States Air Force II  
1 sh (may not be repeated for credit)  
Introduces Air Force core values and offers the student an opportunity to learn about leadership, its principles, and its effective traits. The course discusses Air Force heritage and legacy. Students are also introduced to basic oral and written communication skills. The course continues by exploring the role, its principles, and motivation. The course concludes with an understanding of the Air Force oath and how human relations can affect them as an Air Force Officer. Leadership laboratory is mandatory for AFROTC contract / pursuing cadets and complements this course by providing cadets with followship experiences.

AFR 1112L The Foundations of the United States Air Force II Lab  
0 sh (may not be repeated for credit)  
Co-requisite: AFR 1112
AFR 2130 The Evolution of USAF Air and Space Power I
1 sh (may not be repeated for credit)
Study of the component of air and space power from balloons and dirigibles up to the Korean Conflict. Students will be introduced to the Air Force methods of effective communication. Leadership laboratory activities are included.

AFR 2130L The Evolution of USAF Air and Space Power I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 2130

AFR 2132 The Evolution of USAF Air and Space Power II
1 sh (may not be repeated for credit)
Study of air and space power following the Korean War. Course deals with the peaceful employment of U.S. air power in relief missions and civic actions program in the late 1960s and the air war in South Asia. It also covers the buildup of air power during the 1980s and the changes brought about by Desert Storm. Leadership laboratory activities include preparation for field training.

AFR 2132L The Evolution of USAF Air and Space Power II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 2132

AFR 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AFR 3221 Air Force Leadership and Management I
3 sh (may not be repeated for credit)
Integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivation and behavioral processes, leadership, ethics, communication, and group dynamics provide a foundation for the development of the junior officer's professional skills as an Air Force officer. The basic managerial processes involving decision-making, and the use of analytic aids in planning, organization, and controlling in a changing environment are emphasized. Laboratory provides opportunities for practical application of leadership skills.

AFR 3221L Air Force Leadership and Management I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 3221

AFR 4214 National Security Forces in Contemporary American Society II
3 sh (may not be repeated for credit)
Focuses on the Armed Forces as an integral element of society. Emphasizes the broad range of American civil-military relations, the environmental context in which U.S. defense policy is formulated and implemented, the societal attitudes toward the military, and the role of the professional military leader-manager in a democratic society. Each student prepares individual and group presentations for the class, writes reports, and participates in group discussions and seminars. Laboratory provides opportunities for practical application of leadership skills.

AFR 4214L National Security Forces in Contemporary American Society II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 4214

Corresponding lab for National Security Forces in Contemporary American Society II.

AMERICAN HISTORY Courses

AMH 2010 United States to 1877
3 sh (may not be repeated for credit)
Survey of the United States history beginning with Native American cultures on the eve of colonization through the end of Reconstruction. Examines political, economic, and social developments. (General Studies Course: SS / HIS).

AMH 2020 United States since 1877
3 sh (may not be repeated for credit)
Survey of the United States history beginning in 1877 and ending with a discussion of America in the present era. Examines political, economic, and social developments. (General Studies Course: SS / HIS).

AMH 3540 American Military History
3 sh (may not be repeated for credit)
The American military experience from the colonial era to the present, including causes, conduct, and consequences of wars in American history, civil-military relations, and technology.
AMH 4103 Southern Frontier
3 sh (may not be repeated for credit)
This course examines the interaction of the various and numerous peoples occupying the Southeastern frontier from the Restoration to the U. S. Civil War.

AMH 4111 Colonial America
3 sh (may not be repeated for credit)
History of British Colonial America (1585 - 1776): founding of the colonies; development of economic, social, and political structures; the maturing of the colonies; and background to the American Revolution.

AMH 4131 American Revolutions, 1763-1828
3 sh (may not be repeated for credit)
The social, economic and political histories of the American, Spanish-American and Haitian revolutions between 1763 and 1828.

AMH 4144 The Era of Good Feelings
3 sh (may not be repeated for credit)
This course examines the major issues, events, and figures that defined the years between the end of the War of 1812 and the election of Andrew Jackson in 1828. All aspects of the ?Era of Good Feelings? will be covered -- social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 4150 Early American Republic: 1789-1860
3 sh (may not be repeated for credit)
Political, social, and economic history of the United States emphasizing Jeffersonian and Jacksonian influences on American life and thoughts, sectionalism, and westward expansion.

AMH 4160 Jacksonian America
3 sh (may not be repeated for credit)
Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered - social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 4202 From Stalin to Star Wars: The Cold War and American Culture
3 sh (may not be repeated for credit)
Progression and complexities of the Cold War through both global and domestic arenas, from the rise of Communism to the collapse of the Soviet Union.

AMH 4272 Cold War and Film
3 sh (may not be repeated for credit)
Period films are used to learn about the Cold War and its effect on the course of events in United States history as well as its influence on aspects of American culture. Classes conducted through a combination of lectures, film screenings, and discussions as well as with individual and group projects.

AMH 4403 History of the New South
3 sh (may not be repeated for credit)
Political, social, and economic developments in the South from the end of the Civil War to the present.

AMH 4420 History of Florida
3 sh (may not be repeated for credit)
Pre-Columbian to present; social, economic, and political development.

AMH 4427 Florida Panhandle History
3 sh (may not be repeated for credit)
Exposes students to the diverse history of that section of Florida bounded in the west by the Perdido River and in the east by the Apalachicola River - the Florida Panhandle.

AMH 4442 The American West
3 sh (may not be repeated for credit)
History of the American West from the Louisiana Purchase in 1803 to the present.

AMH 4460 Urban History
3 sh (may not be repeated for credit)
United States urban development from the period of colonization through the present. Applies both traditional and public history techniques.

AMH 4551 U. S. Constitutional and Legal History (to 1877)
3 sh (may not be repeated for credit)
A comprehensive examination of the development of the U.S. constitutional and legal system from the colonial period through Reconstruction. Although the history of the U.S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the legal system during the antebellum period - and the larger political, social, and economic forces surrounding and influencing this development - are given greater weight.

AMH 4552 U. S. Constitutional and Legal History (Since 1877)
3 sh (may not be repeated for credit)
A comprehensive examination of the development of the U. S. constitutional and legal system from Reconstruction to the present day. Although the history of the U. S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the states in the making and development of the constitutional and legal system during the modern period of U.S. history - and the larger political, social, and economic forces surrounding and influencing the development - are given greater weight.

AMH 4575 Civil Rights
3 sh (may not be repeated for credit)
U.S. civil rights movement from its roots in the nineteenth century to the present.

AMH 4694 North American Seafaring
3 sh (may not be repeated for credit)
Explores the history of North American seafaring from the pre-Columbian era through the twentieth century.

AMH 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AMH 6116 Colonial America
3 sh (may not be repeated for credit)
Seminar explores the major historiographical trends in Colonial American history (1585-1776). The course is more thematic than comprehensive and stresses breadth rather than depth.
AMH 6117 Seminar: History of The Atlantic World
3 sh (may not be repeated for credit)
This course explores the history of the Atlantic world from 1400-1800, with a special focus on the impact of Atlantic studies on the study of early American history.

AMH 6169 Seminar: Jacksonian America
3 sh (may not be repeated for credit)
Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered - social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 6347 Materials Culture
3 sh (may not be repeated for credit)
Course Description: This course examines the use of material culture as a form of historical research. The objects people used are just as important as the documents they wrote, and reveal much about the past. Utilizing primary documents as well as material culture, students will expand on traditional research methodologies to incorporate the use of material objects to understand history.

AMH 6439 Seminar: The Southern Frontier
3 sh (may not be repeated for credit)
Research seminar focusing on the U.S. Southeastern frontier from 1750-1850.

AMH 6447 Seminar: Spanish Borderlands, 1513-1821
3 sh (may not be repeated for credit)
Broad readings in the history of the Borderlands, defined as those regions between Florida and California, now belonging to the United States, which were once part of the Spanish colonial empire.

AMH 6557 Constitutional and Legal History
3 sh (may not be repeated for credit)
This course provides a comprehensive examination of the development of the U.S. constitutional system from the colonial period through Reconstruction. Although the history of the U.S. Supreme Court plays an integral role in this course, constitutional history transcends the mere study of great cases and judicial decisions; the preeminent role of the president, congress, and the states in the making and development of the constitutional system during the antebellum period.

AMH 6696 Seafaring in North America
3 sh (may not be repeated for credit)
Explores the history of North American seafaring from the pre-Columbian era through the twentieth century.

AMH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AMERICAN LITERATURE Courses

AML 2010 American Literature I
3 sh (may not be repeated for credit)
Survey of major American literature from colonial times to the Civil War. Primarily for English majors and minors.

AML 2020 American Literature II
3 sh (may not be repeated for credit)
Survey of major American literature from the Civil War to the present. Primarily for English majors and minors.

AML 2072 Sex, Money, and Power in American Literature
3 sh (may not be repeated for credit)
From the days of Columbus, who came to the New World seeking fame and gold, to the era of Sex and the City, America has seen its share of sex scandals, political corruption, and war. What this suggests is that there have always been two different “Americas”: the one of our dreams and the one that forever disappoints us. This course explores these two Americas through literary study. (Gordon Rule Course: Wrtg) (General Studies Course: HUM/LIT).

AML 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AML 3064 African American Literature
3 sh (may not be repeated for credit)
This is a discussion and collaborative group work course in which literary texts from various genres including slave narratives, dramas, short stories, novels, poetry, and the nonfiction essay will be used to reveal how complicit the factors of race, gender, sexuality, nationality, class, and the “divided self” are in the African-American experience. Attendance and participation in the interactive classroom discussions and in in-class and out-of-class group work are crucial to a student’s success in the class. (Meets Multicultural requirement).

AML 3624 Black Women Writers
3 sh (may not be repeated for credit)
Poetry, drama, and prose of black women writers in America. Emphasis on works from the Harlem Renaissance to the present. Meets Multicultural requirement.

AML 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AML 4014 Topics in Early American Literature
3 sh (may not be repeated for credit)
Thematic approaches to the New World and early American literature, from the time of the Spanish conquest through the American Revolution and the early Republic. Topics vary according to faculty expertise and research interests.

AML 4015 Topics in Nineteenth-Century American Literature
3 sh (may not be repeated for credit)
Explores themes in nineteenth-century American literature, from the Romantics through realism and early modernism. Emphasizes new critical approaches and the racial, ethnic and cultural diversity of American literature. Topics vary according to faculty expertise and research interests. (Meets Multicultural requirement).

AML 4054 Topics in Twentieth-Century and Contemporary American Literature
3 sh (may not be repeated for credit)
Thematic approaches to twentieth-century and contemporary American Literature, from modernism through the present. Studies literature in relation to artistic and social movements of the past century. Topics vary according to faculty expertise and research interests.

AML 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AML 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
AML 6455 Topics in American Literature  
3 sh (may be repeated for up to 12 sh of credit)  
Studies in major figures or movements in American literature. Topics change each term. See department or instructor for specific topic.

AML 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**ANTHROPOLOGY Courses**

**ANT 1138 Introduction to Maritime Studies**  
1 sh (may not be repeated for credit)  
Basic introduction to maritime studies designed to familiarize students with the dynamic cultural and natural resources of the maritime environment. Students will gain knowledge and understanding of maritime environments.

**ANT 2000 Introduction to Anthropology**  
3 sh (may not be repeated for credit)  
Introduction to subdivision of anthropology and anthropological thought, basic treatment of human evolution, origins of civilization, world archaeology and modern work cultures, stressing the continuities of human nature. (General Studies Course: SS / BEH) Meets Multicultural requirement.

**ANT 2100 Introduction to Archaeology**  
3 sh (may not be repeated for credit)  
Basic introduction to archaeology; includes fundamental principles, field and laboratory methods, theories construction, special sites and conditions, and ethics. Information from all over the world is used. Field trips to local archeological sites are usually included. (General Studies Course: SS / BEH).

**ANT 2400 Current Cultural Issues**  
3 sh (may not be repeated for credit)  
Deals with the problems that confront American culture such as poverty, language, race, gender, and violence. Involves critical, analytical and objective thinking so that our own culture and values can be viewed more objectively and other cultures can be better understood and respected. An important element is to provide an understanding of the role of the individual in the continuation or amelioration of issues that afflict American society. (General Studies Course: SS / SOC).

**ANT 2511 Biological Anthropology**  
3 sh (may not be repeated for credit)  
Human evolution and variation with emphasis on principles of evolution, primate biology, fossil records, variability in living populations, and the biological foundations of human culture capacities. (General Studies Course: NS / LEC).

**ANT 2511L Biological Anthropology Lab**  
1 sh (may not be repeated for credit)  
Lab corresponding with ANT 2511. General Studies Course (NS / LAB).

**ANT 2905 Directed Study**  
1-12 sh (may be repeated indefinitely for credit)  

**ANT 3015 Forensics in the Media**  
3 sh (may not be repeated for credit)  
Provides students with relevant learning experiences focusing on the standard methods and techniques of forensic science and how it is inaccurately portrayed in popular media. Dispels CSI related myths in popular media, while learning about the multidisciplinary science behind real crime scene investigations. General Studies course (NAT SCI / LEC).

**ANT 3101 Principles of Archaeology**  
3 sh (may not be repeated for credit)  
Detailed explanation of the principles and methodology of current archaeology in U.S.; includes a brief history and theoretical orientation development of American archaeology.

**ANT 3137 Shipwreck Archaeology**  
3 sh (may not be repeated for credit)  
Introductory course in Underwater Archaeology with an emphasis on American Maritime History and New World Archaeology as they relate to Pensacola’s maritime heritage. The format centers on assigned readings and classroom meetings with lectures, discussions, educational slides and videos, and workshops. An attempt is made to incorporate field activities on at least one occasion.

**ANT 3141 Origins of Civilization**  
3 sh (may not be repeated for credit)  
Cultural processes leading toward civilization and theories explaining the emergence of civilization. Comparison of the early civilizations of Mesopotamia, Egypt, India, China, Mesoamerica, and Peru.

**ANT 3153 North American Archaeology**  
3 sh (may not be repeated for credit)  
Overview of archaeology of North America. Emphasis on patterns of development of regional cultures based on the archaeological record. Open to students in all majors.

**ANT 3158 Florida Archaeology**  
3 sh (may not be repeated for credit)  
Archaeology of Florida with emphasis on general patterns of development of Florida Indians. Field trips to area archaeological sites.

**ANT 3165 South American Archeology**  
3 sh (may not be repeated for credit)  
The culture area of South America contains a high degree of environmental variability. The societies that developed exhibit considerable variation inform and social structure. Course examines that variation from an archeological and ethohistoric point of view. While focusing specifically on the cultural history of South America, it also discusses broader themes related to the evolution of human societies.

**ANT 3212 Peoples and Cultures of the World**  
3 sh (may not be repeated for credit)  
Culture areas of the world and frameworks for cultural comparison. Detailed study of representative peoples around the world gives emphasis to non-Western societies and the reporting tool of ethnography. Meets Multicultural requirement.
ANT 3241 Anthropology of Religion
3 sh (may not be repeated for credit)
Connections of religion with the social organization, behavioral systems, and technology of traditional peoples outside the world of Western monotheism. Emphasis on animistic symbolism, shamanism, traditional metaphors for deities, and prehistoric, historic, or ethnographic accounts of ritual systems.

ANT 3311 Indians of the Southeast: An Anthropological Perspective
3 sh (may not be repeated for credit)
Southeastern Indians is a survey course of the Native American groups in the Southeastern U. S. and their culture. It begins with an overview of prehistory and continues into the early 19th century. Examines such key areas as sociocultural archaeology, archaeology, biological archaeology, and history. Credit may not be received in both ANT 3311 and ANT 3317.

ANT 3312 North American Indians
3 sh (may not be repeated for credit)
Past and present life styles of the diverse Native American cultures north of Mexico; discussion of the major culture areas with emphasis upon Indians of the Southeastern United States. Meets Multicultural requirement.

ANT 3352 African Cultures
3 sh (may not be repeated for credit)
An introduction to African culture and society. Examination and analysis of the social foundations, beliefs, practices, and institutions that make up the rich and unique cultural values of the African people. The aim is to broaden students' awareness of the beliefs, practices, and institutions that make up the cultural values of the African people. Attention will be given to pre-colonial years with an overview of the post-colonial era.

ANT 3363 Japanese Culture
3 sh (may not be repeated for credit)
Basic introduction to the distinctive cultural heritage of the Japanese people. A brief overview of key historical events, fundamental philosophical tenets and basic religious beliefs form the background for exploring the prevalent customs, lifestyles and business practices in Japan today. Meets Multicultural requirement.

ANT 3403 Cultural Ecology
3 sh (may not be repeated for credit)
Interactions between human cultures and the natural and social environment. Stress is placed on the adaptive aspect of human culture and the maintenance or disruption of the ecosystem. Meets Multicultural requirement.

ANT 3467 Nutritional Anthropology
3 sh (may not be repeated for credit)
Evolution of human diet and subsistence patterns; examination of relationships between food, health, and society in past and present populations, from a biocultural perspective.

ANT 3520 Forensic Anthropology
3 sh (may not be repeated for credit)
Introduces students to the basic principles of forensic anthropology, and to current methods of determining personal identity, manner and cause of death, elapsed time since death, and other relevant information from skeletonized remains.

ANT 3610 Language and Culture
3 sh (may not be repeated for credit)
Introduction to linguistic principles as they relate to the study of culture. Discussion of origins and nature of language. Direct applications of linguistic concepts in anthropological structure analyses and ethnography. Credit may not be received in both ANT 3610 and ANT 3620.

ANT 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ANT 4034 History of Anthropology
3 sh (may not be repeated for credit)
Development of anthropology with emphasis on the emergence of modern American discipline; detailed treatment of the formation of evolutionary, historical, functional and ecological orientations of the discipline.

ANT 4115 Method and Theory in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
History and evolution of archaeological methods and theory in the United States. Major schools of thought and currently developing ideas are compared and contrasted: sampling theory, site formation, geosciences. Permission is required.

ANT 4121 Combined Archaeological Field Methods
1-9 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Onsite training in maritime and terrestrial archaeology (6 weeks each). Structured hands on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and procedures. A diving certificate from a nationally recognized program and permission is required. Material and Supply Fee will be assessed.

ANT 4155 Archaeology of the Southeastern United States
3 sh (may not be repeated for credit)
Prehistory of the Southeastern United States including chronology, ways of life and the evolution of cultural adaptations for the past 15,000 years. Field trips to archaeological sites and museums will be conducted.

ANT 4172 Historical Archaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Principles and methodology of historical archaeology; includes history of this specialty and theoretical development. Course is detailed and is required for Historical Archaeology graduate students prior to taking ANG 5172. Field trips to local historical archaeology sites and museums and permission is required.

ANT 4180L Laboratory Methods in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: (ANT 2000 AND ANT 3101) OR ANT 4824
Introduction to the basic methods of processing, classifying, coding and analysis or archaeological material. Hands-on laboratory methods are taught utilizing collections from recent field school and project excavations. These materials may include European, Mexican, and Native American ceramics, glass, metal, lithics, masonry, plants, and faunal remains.
ANT 4182C Conservation of Archaeological Materials
4 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Techniques of stabilizing and preserving deteriorated or corroded artifacts from archaeological sites. Hands on conservation techniques are taught in seminar / laboratory using chemicals and treatment procedures.

ANT 4190 Historic Preservation in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Includes a detailed review of basic historic preservation laws and regulations, the historic preservation system, and the articulation of archaeological resources in that system. Topics include historic preservation law, historic preservation system, archaeological resource management, and the contributions to the discipline of anthropology. Permission is required.

ANT 4191C Archaeological Data Analysis
3 sh (may not be repeated for credit)
Focuses on the methods and techniques of analysis of archaeological data which is an essential step in the interpreting of data. The analytical techniques of archaeological data include construction and use of spread sheets, digital image development and manipulation, map making, data base construction, management, and querying. Geographic Information Systems (GIS) and computer assisted drawing (CAD) will also be introduced. Windows applications for the personal computer are used to perform these analyses.

ANT 4247 Anthropology of the Bible
3 sh (may not be repeated for credit)
Social and cultural interpretation of the scriptures pertinent to Hebrew / Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through the 4th century CE. Students will read the assigned texts from the Torah, the Hebrew Bible generally, the Dead Sea Scrolls, the Christian canon, and the scriptures of the Naj Hammadi library. Offered concurrently with ANG 5247; graduate students will be assigned additional work. Credit may not be received in both ANT 4247 and ANT 4174.

ANT 4302 Sex Roles in Anthropological Perspective
3 sh (may not be repeated for credit)
Female and male behavioral, social and biological similarities and differences viewed from a biological-cultural perspective. Emphasizes upon evolution and cross-cultural comparison.

ANT 4321 Cultures of Mexico
3 sh (may not be repeated for credit)
Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico's place in the world. Offered concurrently with ANG 5321; graduate students will be assigned additional work.

ANT 4322 Mesoamerican Cultural Traditions
3 sh (may not be repeated for credit)
Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANG 5322; graduate students will be assigned additional work.

ANT 4332 Cultures of Latin America
3 sh (may not be repeated for credit)
Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socionomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANG 5307; graduate students will be assigned additional work.

ANT 4451 Race, Ethnicity, and Culture
3 sh (may not be repeated for credit)
Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANG 5451; graduate students will be assigned additional work.

ANT 4516 Modern Human Physical Variation
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511
Evolutionary perspective on function and adaptive nature of biological variation in modern humans. Offered concurrently with ANG 5XX5 (Modern Human Physical Variation); graduate students will be assigned additional work.

ANT 4523 Field Methods in Forensic Anthropology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101 AND ANT 4525/L
On-site training in forensic field methods for the location, documentation, and recovery of human skeletal remains from surface and buried contexts. Includes use of surveying equipment and hand excavation tool. Permission is required.

ANT 4525 Human Osteology
4 sh (may not be repeated for credit)
Prerequisite: ANT 2511
Co-requisite: ANT 4525L
Detailed examination of human skeletal and dental anatomy, structure, and function. Techniques of osteological analysis, including determination of age, sex, stature, ancestry, and pathology. Offered concurrently with ANG 5520; graduate students will be assigned additional work. Credit may not be received in both ANT 4525 and ANT 4466.

ANT 4525L Human Osteology Lab
0 sh (may not be repeated for credit)
Co-requisite: ANT 4525
Corresponding lab for Human Osteology.
ANT 4526 Dental Anthropology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Overview of the evolution, development, morphology, physiology, and pathology of the human dentition, with emphasis on applications in bioarchaeological research and forensic anthropology. Offered concurrently with ANG 5526; graduate students will be assigned additional work.

ANT 4532 Disease and Culture
3 sh (may not be repeated for credit)
Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANG 5408; graduate students will be assigned additional work. Credit may not be received in both ANT 4532 and ANT 4408.

ANT 4535 Race in Biological Anthropology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Examination of the biological basis of human diversity, the mechanisms of human population variation, and racial studies in historical and social context. Credit may not be received in both ANT 4535 and ANT 4587.

ANT 4536 Bioarchaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Bioarchaeology is the study of human skeletal remains from archaeological sites. It draws on techniques from archaeology, anatomy, biology, chemistry, pathology, demography, and history in order to reconstruct both individual lives and collective population histories across the globe. Offered concurrently with ANT 5556; graduate students will be assigned additional work. Prerequisite: ANT 2511/L minimum grade C.

ANT 4550 Primatology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Overview of the taxonomy, evolutionary history, ecology, and behavior of non-human primates, and the theoretical basis and methodology of primates studies. Offered concurrently with ANG 5550; graduate students will be assigned additional work.

ANT 4556 Human Origins
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Overview of the fossil evidence for human evolution, and hominin behavioral reconstruction using ethnographic and primate models. Offered concurrently with ANG 5514; graduate students will be assigned additional work.

ANT 4561 Aesthetics & Critical Theory
3 sh (may not be repeated for credit)
Experiential and anthropological/semiotic examination of the topic of aesthetics as a central foundation of human culture. Students encounter working artists and scholars, engage Western and non-Western systems of aesthetic value, develop tools for several kinds of postmodern cultural criticism, and explore personal constructions of aesthetics and cultural studies. Permission is required.

ANT 4808 Applied Anthropology
3 sh (may not be repeated for credit)
Methods and techniques of applied anthropology, including ethical issues and approaches to planned culture change - social intervention, policy formation, small scale systems analysis. Practical activities in the local community will be included in the course.

ANT 4824 Terrestrial Archaeological Field Methods
1-9 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Onsite training in terrestrial field methods includes use of hand tools, surveying equipment, and some power equipment. Emphasized in the field are excavation techniques in a variety of situations, field scale drawings, and documentation. Field lab methods are often included. Permission is required. Material and Supply Fee will be assessed.

ANT 4835 Maritime Archaeological Field Methods
1-9 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Onsite training in maritime archaeology. Structured hands on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and use of field instruments, and field conservation procedures. A diving certificate from a nationally recognized program and permission is required. Credit may not be earned in both ANT 4135 and ANT 4835. Material and Supply Fee will be assessed.

ANT 4853C Geographic Information Systems in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Application of Windows-based Geographical Information Systems technology in anthropology, archaeology and cultural resource management. Credit may not be earned in both ANT 4076C and ANT 4853C.

ANT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ANT 4944 Anthropology Internship
1-3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: ANT 4190 AND ANT 4824
Placement in community agency or other social or organizational setting. Supervision by faculty and agency. Student participates in full range of services available in the setting. An internship paper is required. A maximum of 6 sh may be applied to the major requirements. Permission is required.

ANTHROPOLOGY: GRADUATE Courses

ANG 5137 Nautical Archaeology Seminar
3 sh (may not be repeated for credit)
Method and theory of nautical archaeology, development as a discipline, ethical considerations, evolution of ship construction and public laws and education.
ANG 5154 Spanish Florida in Anthropological Perspective  
3 sh (may not be repeated for credit)  
A comprehensive anthropological exploration of the origins and evolution of Spanish Florida as a colonial society between 1513 and 1763. Draws upon the results of historical, ethnohistorical, archaeological (terrestrial and maritime), bioanthropological, and other research disciplines to present the Florida colony as a geographically-extensive multi-ethnic society within the context of the global Spanish empire.

ANG 5157 Pre-Columbian Archaeology Seminar  
3 sh (may not be repeated for credit)  
Examination of the classic and current literature on key topics in North American pre-Columbian archaeology including peopling of the New World, archaic adaptations, woodland stage developments, and the Mississippian world.

ANG 5172 Historical Archaeology Seminar  
3 sh (may not be repeated for credit)  
Emphasizes the goals, methods and theoretical base of historical archaeology. Particular emphasis is placed on theoretical development, acculturation, ethnicity, archaeological methods and documentary research. The class is an organized seminar with readings and discussions of specific topics.

ANG 5173 Historical Research Methods in Archaeology  
3 sh (may not be repeated for credit)  
A practical introduction to the use of historical documents in archeological research, both as primary sources of data for understanding the past, and as a complement to archaeological and other types of data. Examples and case-studies will center on the history of Florida during Spanish, British, and early American periods.

ANG 5181 Geographic Information Systems in Archaeology  
3 sh (may not be repeated for credit)  
A methods course in the use of Windows based Geographic Information Systems (GIS) technology that teaches the basic skills necessary to use GIS for research in anthropology, archaeology and cultural resource management. GIS philosophy and concepts, database design and use, computer assisted cartography and anthropological research using ArcGIS will be covered.

ANG 5247 Anthropology of the Bible  
3 sh (may not be repeated for credit)  
A seminar on the social and cultural interpretations of the scriptures pertinent to Hebrew / Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through 4th century CE. Materials brought under scrutiny include the Torah, Hebrew Bible generally, Dead Sea scrolls, Christian canon, and the scriptures of the Naj Hammadi library. Much of the interpretation concerns alternative views of the political and social groups underlying these texts. Graduate students are required to conduct primary scriptural analysis informed by modern critical approaches. Offered concurrently with ANT 4247; graduate students will be assigned additional work. Credit may not be received in both ANG 5247 and ANG 5174.

ANG 5307 Cultures of Latin America  
3 sh (may not be repeated for credit)  
Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socioeconomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANT 4332, graduate students will be assigned additional work.

ANG 5321 Cultures of Mexico  
3 sh (may not be repeated for credit)  
Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico’s place in the world. Offered concurrently with ANT 4321; graduate students will be assigned additional work.

ANG 5322 Mesoamerican Cultural Traditions  
3 sh (may not be repeated for credit)  
Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANT 4322; graduate students will be assigned additional work.

ANG 5408 Disease and Culture  
3 sh (may not be repeated for credit)  
Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANT 4532; graduate students will be assigned additional work.

ANG 5451 Race, Ethnicity, and Culture  
3 sh (may not be repeated for credit)  
Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANT 4451; graduate students will be assigned additional work.

ANG 5514 Human Origins  
3 sh (may not be repeated for credit)  
Overview of the fossil evidence for human evolution, and hominid behavioral reconstruction using ethnographic and primate models. Offered concurrently with ANT 4586; graduate students will be assigned additional work.
ANG 5516 Modern Human Physical Variation
3 sh (may not be repeated for credit)
Evolutionary perspective on function and adaptive nature of biological variation in modern man. Offered currently with ANT 4516; graduate students will be assigned additional work.

ANG 5520 Human Osteology
4 sh (may not be repeated for credit)
Co-requisite: ANG 5520L
Detailed examination of human skeletal and dental anatomy, structure, and function. Techniques of osteological analysis, including determination of age, sex, stature, ancestry, and pathology. Offered concurrently with ANT 4525; graduate students will be assigned additional work. Credit may not be received in both ANG 5520 and ANG 5466.

ANG 5520L Human Osteology Lab
0 sh (may not be repeated for credit)
Co-requisite: ANG 5520
Corresponding lab for Human Osteology.

ANG 5526 Dental Anthropology
3 sh (may not be repeated for credit)
Overview of the evolution, development, morphology, physiology, and pathology of the human dentition, with emphasis on applications in bioarchaeological research and forensic anthropology. Offered concurrently with ANT 4526. Graduate students will be assigned additional work.

ANG 5536 Bioarchaeology
3 sh (may not be repeated for credit)
Bioarchaeology is the study of human skeletal remains from archaeological sites. It draws on techniques from archaeology, anatomy, biology, chemistry, pathology, demography, and history in order to reconstruct both individual lives and collective population histories across the globe. Offered concurrently with ANT 4536; graduate students will be assigned additional work.

ANG 5550 Primatology
3 sh (may not be repeated for credit)
Overview of the taxonomy, evolutionary history, ecology, and behavior of non-human primates, and the theoretical basis and methodology of primate studies. Offered concurrently with ANT 4550; graduate students will be assigned additional work.

ANG 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ANG 6002 Proseminar in Anthropology
3 sh (may be repeated for up to 6 sh of credit)
Examines selected subjects in anthropology using the perspectives of all three sub-disciplines; cultural anthropology, biological anthropology, and archaeology. The seminar's goals are to introduce students to the subject, provide in-depth understanding of current issues, and examine the variety of theoretical and methodological approaches used by anthropologists. Contact department for specific topic each semester offered. No more than 6 semester hours credit may be received.

ANG 6084 Contemporary Anthropological Theory
3 sh (may not be repeated for credit)
A seminar engaging readings from the works of key American and European anthropologists since the 1960s. Considers the debates between traditionalism and postmodern schools of anthropology, together with the essential problems for ethnology created by technology, complex society, gender issues, ethnicity, and applications of anthropological research.

ANG 6093 Research Design in Anthropology
3 sh (may not be repeated for credit)
The fundamental issues of research design and implementation and the objectives and strategies of contemporary anthropological research. Scientific procedures and methods in the development of research programs that are logically structured and fundable. Alternative forms of deriving knowledge relating to important issues in epistemology and the philosophy of science will also be discussed.

ANG 6110 Advanced Method and Theory in Archaeology Seminar
3 sh (may be repeated for up to sh of credit)
Includes an overview of the history and development of American archaeology with an emphasis on methodological and theoretical topics. Class is an organized seminar with readings and discussions of specific topics.

ANG 6183L Advanced Laboratory Methods in Archaeology
3 sh (may not be repeated for credit)
Advanced training in the operation of an archaeological laboratory. Activities include laboratory organization and management as well as planning laboratory activities to meet deadlines, assignment of tasks, training, and supervising beginning students. Graduate students will instruct undergraduate students in artifact identification and documentation. Credit may not be received in both ANG 6183L and ANG 6823L.

ANG 6192 Historic Preservation Law Seminar
3 sh (may not be repeated for credit)
Examination of pertinent laws and practices in all fields of historic preservation including archaeology, history, and architectural history. Credit may not be received in both ANG 6192 and ANG 6704.

ANG 6196 Policies, Practices and Archaeology in Historic Preservation
3 sh (may not be repeated for credit)
Legislation and regulations concerning cultural resources and the historic preservation system. Also covers compliance archaeology, contract archaeology, ethics, collecting, looting and the role of Native Americans and ethnic groups.

ANG 6286 Contemporary Cultural Anthropological Theory
3 sh (may not be repeated for credit)
Through readings and seminar discussion, students will explore key themes and thinkers of the past few decades which have contributed to the production of contemporary culture theory in anthropology. Important topics will include structuralism, cultural materialism, feminism and anthropology, post-modernism, world systems theory, post-colonialism, and symbolic anthropology. Key theorists will include Claude Levi-Strauss, Marvin Harris, Mary Douglas, Clifford Geertz, Sherry Ortner, Gayle Rubin, Pierre Bourdieu, Arjun Appadurai, and James Clifford.
ANG 6583 Evolutionary Theory in Biological Anthropology
3 sh (may not be repeated for credit)
Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human bio-cultural evolution.

ANG 6824 Advanced Archaeological Field Methods
3-6 sh (may not be repeated for credit)
Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

ANG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ANG 6971 Anthropology Thesis
1-6 sh (may not be repeated for credit)
Preparation of master's thesis which includes problem identification, review of literature, design, data collection, analysis, and results. Permission of Thesis Committee required. Graded on satisfactory / unsatisfactory basis only.

**APPLIED KINESIOLOGY Courses**

APK 2202 Advanced Sport Performance
3 sh (may not be repeated for credit)
Introduction and application of training modalities for improving physical athletic performance.

APK 3110 Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND MAC 1105
Co-requisite: APK 3110L
Application of physiological principles to study of man and human performance related to health, sports and leisure activities.

APK 3110L Exercise Physiology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: APK 3110
Student shall become familiar with instruments and test procedures used to gather data on the physiology of exercise. Material and Supply fee will be assessed.

APK 3220C Biomechanical Basis of Movement
4 sh (may not be repeated for credit)
Prerequisite: APK 3110/L OR MAC 1105
The fundamentals of engineering (kinematics and kinetics) related to motor skills and human performance are introduced. Basic college mathematics and physics knowledge will be applied to problem solving in a classroom setting. Experimental procedures and sport research techniques will be applied in the laboratory setting. Prerequisites: APK 3110/L and either MAC 1105 or completion of General Studies Mathematics minimum grade C.

APK 4113 Senior Seminar in Athletic Training
3 sh (may not be repeated for credit)
Prerequisite: APK 4305 AND PET 4609 AND PET 4610 AND PET 4623 AND PET 4632
The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required. Credit may not be received in both APK 4113 and PET 4621.

APK 4305 Evaluation Techniques of Athletic Injuries I
3 sh (may not be repeated for credit)
Prerequisite: PET 2622
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis. Credit may not be received in both APK 4305 and PET 4609.

APK 4312 Pharmacology Application in Athletic Training
2 sh (may not be repeated for credit)
Prerequisite: PET 3660
Provides information on the use, interaction, side effects of pharmaceuticals used in the treatment of athletes. Provides medical terminology used in the description of medical conditions associated with athletic injury diagnosis and classification.

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND MAC 1105

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND MAC 1105

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND MAC 1105

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND MAC 1105

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND MAC 1105

APK 6824 Advanced Archaeological Field Methods
3-6 sh (may not be repeated for credit)
Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

APK 6971 Anthropology Thesis
1-6 sh (may not be repeated for credit)
Preparation of master's thesis which includes problem identification, review of literature, design, data collection, analysis, and results. Permission of Thesis Committee required. Graded on satisfactory / unsatisfactory basis only.

**APPLIED MUSIC: BRASSES Courses**

MVB 1311 Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1312 Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1313 Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1314 Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVB 1315 Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2321 Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3322 Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2323 Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2324 Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2325 Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2421 Performance: Brass
2 sh (may be repeated for up to 6 sh of credit)
Individual instruction in applied music in brasses. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3331 Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3332 Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3333 Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3334 Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3335 Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3970 Junior Recital - Brass
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVB 4341 Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4342 Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4343 Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4344 Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4345 Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students’ applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

APPLIED MUSIC: KEYBOARD Courses

MVK 1111 Class Piano I
1 sh (may be repeated for up to 8 sh of credit)
To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam.
MVK 1112 Class Piano II
1 sh (may be repeated for up to 8 sh of credit)
Prerequisite: MVK 1111
To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.
MVK 1115 Keyboard Skills
1 sh (may not be repeated for credit)
Development of functional skills at the keyboard. Open only to music majors.
MVK 1311 Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in piano. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 1313 Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in organ. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 2121 Class Piano III
1 sh (may not be repeated for credit)
Prerequisite: MVK 1112
To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.
MVK 2122 Class Piano IV
1 sh (may not be repeated for credit)
Prerequisite: MVK 2121
To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.
MVK 2223 Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music organ. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 2321 Performance: Keyboards
2-3 sh (may be repeated for up to 6 sh of credit)
Individual instruction in applied music in keyboards. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 2421 Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in piano. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 2422 Applied Music Harpsichord
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 3331 Performance: Keyboards
3 sh (may be repeated for up to 6 sh of credit)
Individual instruction in applied music in keyboards. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 3333 Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in organ. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 3431 Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in piano. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 3432 Applied Music Harpsichord
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVK 3702 Accompanying Coaching Class
2 sh (may not be repeated for credit)
Prerequisite: MVK 1311 AND MVK 2421
Designed to equip the pianist with basic skills in accompanying vocalists, instrumentalists, and choral groups. Emphasis on listening techniques related to vocal, instrumental, and choral literature. Two years of applied piano and permission is required.
MVK 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MVK 3970 Junior Recital - Keyboards
1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 4000 level applied lessons (junior level) and permission is required. Performance majors only.

MVK 4341 Performance: Keyboards
3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4343 Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4441 Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music piano. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4442 Applied Music Harpsichord
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4641 Piano Pedagogy
2 sh (may not be repeated for credit)

Comparison of various published piano methods; application of these methods and other techniques of teaching beginning student to most advanced level. Required of all piano majors.

MVK 4704 Accompanying: Instrumental Literature
2 sh (may be repeated for up to 6 sh of credit)

Prerequisite: MVK 1311 AND MVK 2421

Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for instruments involving a piano accompaniment. Survey of literature for woodwinds, brass, strings, percussion, chamber music, and two pianos with emphasis on performance techniques. Two years of applied piano and permission is required.

MVK 4705 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MVK 4932 Piano Interpretation
2 sh (may not be repeated for credit)

Study and comparison of interpretations of piano music by means of written treatises, recorded examples and demonstration. Required of all piano majors. Junior level standing and permission is required.

MVK 4942 Accompanying Internship I
2 sh (may not be repeated for credit)

Prerequisite: MVK 1311 AND MVK 2421

An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Two years of applied piano and permission is required.

MVK 4943 Accompanying Internship II
2 sh (may not be repeated for credit)

Prerequisite: MVK 4942

An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Permission is required.

MVK 4971 Senior Recital - Keyboards
1-3 sh (may not be repeated for credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students’ applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVK 5451 Applied Piano
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in piano. Primarily for music majors of Graduate level standing. Permission is required.

APPLIED MUSIC: PERCUSSION Courses

MVP 1311 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2321 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2421 Performance: Percussion
2 sh (may be repeated for up to 6 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3331 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
APPLIED MUSIC: STRINGS Courses

MVS 1331 Applied Music Violin
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in violin. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1332 Applied Music Viola
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in viola. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1333 Applied Music Cello
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in cello. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1334 Applied Music Bass
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bass. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3970 Junior Recital - Percussion
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVP 4341 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 4971 Senior Recital - Percussion
1-3 sh (may not be repeated for credit)
Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to a scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVP 4341 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3970 Junior Recital - Percussion
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVP 4341 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVS 3336 Applied Music Guitar
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in guitar. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3970 Junior Recital - Strings
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVS 4341 Applied Music Violin
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in violin. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4342 Applied Music Viola
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in viola. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4343 Applied Music Cello
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in cello. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4346 Applied Music Guitar
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in guitar. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4971 Senior Recital - Strings
1-3 sh (may not be repeated for credit)
Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission required.

MVS 5451 Applied Viola
3 sh (may not be repeated for credit)
Individual instruction on the viola on the graduate level. Lesson times to be determined in consultation with the instructor.

APPLIED MUSIC: VOICE Courses

MVV 1311 Applied Music Voice
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2321 Performance: Voice
2 sh (may be repeated for up to 6 sh of credit)
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2421 Applied Music Voice
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music vocal. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3331 Performance: Voice
3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in voice. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3431 Applied Music Voice
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music voice. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3970 Junior Recital - Voice
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVV 4341 Performance: Voice
3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in voice. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4441 Applied Music Voice
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music vocal. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4640 Vocal Pedagogy
2 sh (may not be repeated for credit)
Explores strategies of teaching voice to students of all ages and levels.
MVV 4971 Senior Recital - Voice
1-3 sh (may not be repeated for credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students’ applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

APPLIED MUSIC: WOODWINDS Courses

MVW 1311 Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1312 Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1313 Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1314 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1315 Applied Music Saxophone
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2321 Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2322 Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2323 Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2324 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2325 Applied Music Saxophone
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2326 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)

MVW 2327 Applied Music Saxophone
2-3 sh (may be repeated for up to 9 sh of credit)

MVW 3331 Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)

MVW 3332 Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)

MVW 3333 Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)

MVW 3334 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student’s applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.
ARA 2200C Intermediate Arabic Language and Culture I
4 sh (may not be repeated for credit)
Prerequisite: ARA 1121C
Continuation of ARA 1101C with increased complexity of grammatical constructions, greater emphasis on reading and writing and increased use of authentic materials. Some of the cultural information will be given in Arabic.

ART Courses
ART 1015C Exploring Artistic Vision
3 sh (may not be repeated for credit)
Challenges the student to explore alternative modes of perception and interpretation, through lectures, discussion, and hands-on application. Material and Supply fee will be assessed. (General Studies Course: HUM / FA).

ART 1300C Drawing I - Fundamentals
3 sh (may not be repeated for credit)
Students will study several media and how to use them. Instruction in drawing still life, landscapes and other objects / subjects provided. Students develop perception of proportions along with black / white media compositional concepts. Invites all students. Material and supply fee will be assessed.

ART 1301C Drawing II - Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C
Continuation and further development of the studies in ART 1300C. Material and supply fee will be assessed.

ART 2201C Two-Dimensional Design
3 sh (may not be repeated for credit)
Introduction to the concepts by which shape, value and color control space; ideas fundamental to the visual arts. Invites all students. Material and supply fee will be assessed.

ART 2203C Three-Dimensional Design
3 sh (may not be repeated for credit)
Designed to provide the beginning art major with a firm grounding in the technical strategies needed to create forms in space. Material and Supply Fee will be assessed.

ART 2400C General Printmaking
3 sh (may not be repeated for credit)
Introduction to various printmaking techniques possibly including block printing, calligraphy, monotype, etching and engraving. Content varies according to instructor. Prerequisite for all other printmaking courses. Invites all students. Material and Supply Fee will be assessed.

ART 2484C Principles of Graphic Art
3 sh (may not be repeated for credit)
Prerequisite: ART 2602C
An overview of the formal elements of design, contextualized within a framework that stresses experimentation, creativity, innovation, and expression. Products using Photoshop, Illustrator and InDesign are oriented toward commercial applications in print based media. Material and Supply Fee will be assessed.
ART 2500C Painting I - Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 2201C

Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects / subjects. Some materials supplied. Primarily an introductory painting course for art majors. Credit may not be earned in both ART 2510C and ART 2500C. Material and supply fee will be assessed.

ART 2602C Introduction to Digital Studio Practice
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 2201C

A prerequisite for all courses in the Digital Practice Studio. Students gain a working knowledge of Apple Macintosh OS, are introduced to the basics of Adobe Photoshop and exposed to the myriad of programs and equipment available in the Department of Art Mac Lab. Material and Supply Fee will be assessed.

ART 2701C Fundamentals of Sculpture
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C

Course explores a wide range of contemporary sculpture, and familiarizes students with current genres and issues. Assignments develop important foundational skills in 3-D design, construction and materials, while challenging the mind with compelling concepts. Material and Supply Fee will be assessed.

ART 2821 Art and Visual Culture Today
3 sh (may not be repeated for credit)

Examines the cross-fertilization of visual forms via various media from painting and photography to film and advertising. Investigates social practices and institutions that produce images, and the power of images to shape our opinions and beliefs. Also addresses theories about modes of seeing. (General Studies Course: HUM / FA).

ART 3213C Advanced Ideas and Concepts
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C

A personal and group exploration of the artistic process, which harnesses the skills developed in the foundation art and media-based course to expand the creative potential. For advanced art majors and all BFA candidates in their junior year. Material and Supply fee will be assessed.

ART 3312C Drawing III: The Figure
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C

Requires essential education in drawing the human figure, whose accurate visualization remains a vital component of all artistic media and practice. Builds on the foundation art courses in drawing and two dimensional-design, which are necessary prerequisites. Material and Supply Fee will be assessed.

ART 3313C Drawing for Non-Majors
3 sh (may not be repeated for credit)

Drawing for Non-Majors is for beginning artists who want to improve their drawing skills. Emphasizes composition, line, proportion, perspective, value, shading, and introduces color. Students will explore the technical handling of different types of materials through exercises and finished drawings. Material and Supply fee will be assessed.

ART 3442C Advanced Printmaking: Intaglio
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C

Discussion and exploration into a variety of printmaking techniques unique to the intaglio process. The philosophical and functional aspects of the course will be cultivated. Material and Supply Fee will be assessed.

ART 3504C Painting II-Intermediate
3 sh (may not be repeated for credit)
Prerequisite: ART 1301C AND ART 2500C

Includes fundamentals review. Develops individuality. Uses observational and conceptual experiences / project. Stresses understanding / perceiving color, using media and techniques appropriate to the student's personal development. Primarily for art majors. Credit may not be earned in both ART 3530C and ART 3504C. Material and Supply Fee will be assessed.

ART 3505C Painting III-Advanced
3 sh (may not be repeated for credit)
Prerequisite: ART 3504C

Individual development in media, technique and concept will be stressed. Possibilities of painting other than easel painting will be presented. Investigation and experimentation responding to situations and projects is required. Credit cannot be received for both ART3505C and ART 3405C.

ART 3507C Painting for Non-Majors
3 sh (may not be repeated for credit)

Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects / subjects. Some materials supplied. Primarily an introductory painting for majors outside of art. Invites all students. Material and Supply Fee will be assessed. Credit may not be received in both ART 3507C and ART 3500C.

ART 3613C Digital Multimedia
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C

Issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, emerging technology, installation, programming and / or robotics to be determined by instructor. Students work both individually and collaborate on projects that can involve video, space, time, objects, film, robotics, programming, or any other appropriate media. Material and Supply Fee will be assessed.

ART 3618C Introduction to Web-based Art
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C

An introduction to the Internet as a platform for fine art practice. A study of the history of web-based interactive artworks, contemporary concepts and issues in interactive art are explored through regular critiques, readings, and screenings. Students will produce and critique artworks using HTML, scripting, and software-based site production for the web. Material and Supply Fee will be assessed. Credit may not be received in both ART 3618C and ART 4618C. 
ART 3630C Artist's Video
3 sh (may be repeated for up to 9 sh of credit)
An introduction to digital video using Final Cut Pro, iMovie, and After Effects. Focuses on video as an art medium, the history of video art and looking at examples from key artists of our time. Students must purchase a flash drive or a firewall external hard drive of at least 40GB for use in this class. Material and Supply Fee will be assessed.

ART 3660C Digital Photo Exploration
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C
Designed for student artists interested in capturing digital images that can stand alone as compelling visual statements, or be incorporated within a broader artistic framework. Material and Supply Fee will be assessed.

ART 3714C Advanced Sculpture: Exploring Materials
3 sh (may not be repeated for credit)
Prerequisite: ART 2701C
Focuses on sculptural media and object making, both traditional and in contemporary practice. Provides further investigation into the selection of 3-D materials and its implications for authorship, meaning, environmental responsibility, and health concerns. Material and Supply Fee will be assessed.

ART 3718C Advanced Sculpture: Intro to the Genres
3 sh (may not be repeated for credit)
Prerequisite: ART 2701C
Reorganizes the open-ended nature of "sculpture" as a category in art practice today. Moves beyond the conventional definition of sculpture as concerned with volume and mass in space. Topics include how art is responsive to its context, and the issue of authorship, process, and vulnerability will be explored. Material and Supply Fee will be assessed.

ART 3737C Advanced Sculpture: Non-Place
3 sh (may not be repeated for credit)
Prerequisite: ART 2701C
Theory-based studio course that addresses anthropologist Marc Auge's concept of the Non-Place. Course will examine what makes a space a non-place. Students will be challenged to think about the ways in which various kinds of art, architecture, and design can transform our everyday experiences of non-places into places that inspire. Material and Supply Fee will be assessed.

ART 3739C Advanced Sculpture: Site Specific Installation
3 sh (may not be repeated for credit)
Prerequisite: ART 2701C
Course will examine strategies for work on site, gaining an understanding of the complex intersection of the social, cultural, built, and natural environment that are essential to the creation of an artist's intention, independently or in collaboration with others, in and out of the art world. Material and Supply Fee will be assessed.

ART 3760C Ceramics
3 sh (may not be repeated for credit)
Variety of hand-forming processes including throwing on the potter's wheel. Deals with basic glazing and firing techniques. Invites all students. Material and Supply Fee will be assessed.

ART 3762C Ceramics: Wheelthrowing
3 sh (may not be repeated for credit)
Prerequisite: ART 3760C
Intermediate course in throwing techniques. Deals with clay in terms of functional as well as sculptural considerations. Covers a broad range of technical information. Material and supply fee will be assessed.

ART 3764C Ceramics: Handbuilding
3 sh (may not be repeated for credit)
Prerequisite: ART 3760C
Handbuilding techniques. Deals with clay in terms of functional as well as free-form design. Covers a broad range of technical information. Material and supply fee will be assessed. Credit may not be earned in both ART 3111C and ART 3764C.

ART 3769C Sculptural Ceramics
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ART 2203C AND ART 3760C
Designed to encompass all skill levels from beginning to advanced. Work will be focused on using the clay body and glazes to create non-utilitarian works of art. Wheel throwing, coil building and slab building methods will be employed as needed to realize this goal. The main firing method will be cone 10 gas firing to create long-lasting stoneware pieces. Material and Supply Fee will be assessed.

ART 3827C Conceptual Research and Development
3 sh (may not be repeated for credit)
Course engages art majors as leaders in the creation of cultural products for a fabricated society, one whose structure bears an intended resemblance to today's society. Students learn to lead group discussions and activities, culminating in a public exhibition of the culture's "artifacts".

ART 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ART 3930 Special Topics in Painting and Drawing
1-9 sh (may be repeated for up to 27 sh of credit)
Unique topics concerning painting and drawing. Students should have background of fundamentals in painting and/or drawing. Assignments will vary.

ART 4161C New and Mixed Media: Personal Directions
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ART 3213C
Focused research in new and mixed media with attention to the development of a personal artistic statement. For advanced upper-level students only. May be designated a capstone experience. Permission is required. Material and Supply fee will be assessed.

ART 4323C Drawing IV - Advanced
3 sh (may not be repeated for credit)
Prerequisite: ART 3312C
While there is a continuation of the development of many of the concepts of drawing from ART 3312C, this course is dedicated to the study of life drawing concepts. The human figure will be the primary subject matter. Extensive experimentation and exploration of drawing media use in relation to the figure will be stressed. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both ART 4332C and ART 4320C.
ART 4333C Drawing V - Advanced  
3 sh (may not be repeated for credit)  
Prerequisite: ART 4332C  
Use of classroom / studio situation to direct the student towards independent study. Student will be required to participate in the structuring of projects and experiences that demand individual investigation and development. Material and supply fee will be assessed. Credit may not be earned in both ART 4332C and ART 4333C.  
ART 4386C Drawing: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Topics tailored to the advanced drawing student's personal creative exploration. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.  
ART 4461C Printmaking: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 2400C AND ART 3442C  
Focused research in printmaking with attention to the development of a personal artistic statement. For advanced upper-level students only. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.  
ART 4506C Painting IV-Advanced  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3505C  
Use of the classroom / studio to direct the student towards independent study. Students will be required to initiate the structuring of projects and experiences and to pursue them with individual development and investigation.  
ART 4520C Painting: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3505C  
Unique topics concerning painting for the upper level or advanced student. Students should have an extensive background in the fundamentals of painting, drawing, and design, as well as an advanced knowledge of ideas / concepts in contemporary painting. May be designated a capstone experience.  
ART 4619C Advanced Digital Multimedia  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3613C AND ART 3618C AND ART 3630C  
Advanced issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, installation, programming and / or robotics to be determined by instructor. Students work both individually and in collaboration on projects that can involve video, sound, space, time, objects, film, robotics, programming or any other appropriate media. Material and Supply Fee will be assessed.  
ART 4632C Digital Design Studio Senior Project  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3618C  
Designed for seniors in the Graphic Design BA and Digital Art BFA programs pursuing self-initiated and self-directed projects. Projects may include the development of a single (or sequential) large-scale artwork, the further development of projects begun at the lower level for inclusion in the senior portfolio, and/or design and development of the senior exit show and/or senior design portfolio. Students' proposals must be approved by the instructor at least two weeks before the start of the semester. May be designated a capstone experience. Permission is required. Material and Supply Fee will be assessed.  
ART 4633C Interactive Design  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3618C  
An exploration of the design of interactive environments for design professionals. Issues addressed include accessibility, usability, interface, and information design. A greater emphasis on prototyping techniques and software best suited to the contemporary marketplace.  
ART 4712C Sculpture: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Focused research into advanced specialized sculptural processes not normally covered within the normal sculpture course offerings. Processes covered are dependent upon direction of work. Contemporary art concepts are an integral part of this class. For advanced upper-level students only. May be designated a capstone course. Material Supply fee will be assessed.  
ART 4787C Ceramics: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3764C  
Design and the development of individual expression in clay. Student has a choice of forming techniques. Covers advanced firing and glazing techniques. Material and supply fee will be assessed.  
ART 4800 Portfolio  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3618C  
Provides the information, support, and technical ability needed to build a strong portfolio and prepare applications to graduate schools, residencies, and internships. Explains how to professionally enter the contemporary art market. Open to all art majors, but required of BFA students.  
ART 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Prerequisite: ART 3618C  
ART 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
ART 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
ART EDUCATION Courses  
ARE 3313C Teaching of Art in the Elementary School  
2 sh (may not be repeated for credit)  
Art education on elementary level. Orientation in philosophy, materials and procedures for elementary education majors. Not open to art majors. Material and Supply fee will be assessed.
ARH 4316C Methods and Materials in Elementary Art Instruction
2 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 2201C
Current art education practices and philosophies are addressed through a practical, hands-on exploration of the artistic media appropriate for the primary school child. Practicum activities in the public school classroom are required. This course is a prerequisite for ARE 4316C, and should be taken after completion of lower division art core. Permission is required. Material and Supply fee will be assessed.

ARE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ARE 4316C Special Methods in Art Education
4 sh (may be repeated for up to 8 sh of credit)
Studio activity incorporating contemporary concepts in art education, instructional and resource materials, evaluation and development. Curriculum development and implementation into the concurrent practicum. Individual criticism, class discussion and classroom observation and participation in the public schools. (8hrs. observation and 8hrs. participation). Permission is required. Material and Supply fee will be assessed.

ARE 4662 Arts and the Community
3 sh (may not be repeated for credit)
Designed to introduce students to the theoretical foundations and practice techniques of integrating arts and the community. The format will include 1 hour of lecture and topical discussions, semester journaling, and 1 hour lab exercises in partnership with Belmont Arts and Cultural Center. Offered concurrently with ARE 5667; graduate students will be assigned additional work.

ARE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ARE 4940 Art Education Internship
6-12 sh (may not be repeated for credit)
Capstone course of the Art Education Specialization. Student elects an elementary school setting, a secondary art classroom or both. All internships are limited to Escambia and Santa Rosa counties. Credit hours may vary, depending on the length of the internship. Students who select the full 12-hour option should not enroll in additional coursework, or pursue employment during the Art Internship experience. Graded on Satisfactory / Unsatisfactory basis only. Permission is required.

ART HISTORY Courses
ARH 1010 Introduction to Art History
3 sh (may not be repeated for credit)
Surveys the key monuments of Western art and architecture from the upper Paleolithic period to the modern era. Not open to art majors. (General Studies Course: HUM / FA) Meets Multicultural requirement.

ARH 2050 Western Survey I: Greek to Renaissance
3 sh (may not be repeated for credit)
Analysis of the western aesthetic heritage within its cultural context from the birth of Greek art through the late Renaissance era. Required for all art majors. (General Studies Course: HUM / FA), (Gordon Rule Course: Wrtg), Meets Multicultural requirement.

ARH 2051 Western Survey II: Baroque to Contemporary
3 sh (may not be repeated for credit)
Analyzes the Western aesthetic heritage within its cultural context from the seventeenth century to the present. Required of all art majors. Satisfies the lower division requirement, ARH 1050. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM / FA) Meets Multicultural requirement.

ARH 3590 Perspectives in Ancient and World Art
3 sh (may not be repeated for credit)
The changing interpretations of ancient and world art will be examined in the context of contemporary opinion. Areas in ancient art include prehistoric Europe, Mesopotamia, and Egypt. Emphasis will be placed on the arts of Asia, Africa, Oceania, and the Americas. Credit may not be received in both ARH 3590 and ARH 4590. Meets Multicultural requirement.

ARH 3621 American Art
3 sh (may not be repeated for credit)
A comprehensive survey of American painting, sculpture, and architecture from the seventeenth century to the third quarter of the twentieth century.

ARH 3724 History of Graphic Design
3 sh (may not be repeated for credit)
An analysis of the history of Graphic Design from its inception through its current role in contemporary society. Explores the historical relationship between graphic design and additional design disciplines such as: fashion, architecture, industrial, furniture and digital media design.

ARH 3871 Women in Art
3 sh (may not be repeated for credit)
Investigates the history and issues surrounding the roles of women in the visual arts: women as artists, models, subjects, and patrons. Explores differences in the portrayal of women by both women and men artists. Includes assessment of women's themes, materials, critical theory, and cultural identities.

ARH 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ARH 4112 Aegean Bronze Age and Greek Art and Architecture
3 sh (may not be repeated for credit)
Prerequisite: ARH 1010 OR ARH 2050
Covers the development of art and architecture during both the Bronze Age in the Aegean area and the Iron Age in the ancient Greek world.

ARH 4150 Etruscan and Roman Art and Architecture
3 sh (may not be repeated for credit)
Prerequisite: ARH 1010 OR ARH 2050
Covers the development of ancient art and architecture during both the Etruscan and Roman periods.

ARH 4302 Late Renaissance Art in Italy
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051
Examines the achievements of Italian artists and architects during the Cinquecento, including the art of Leonardo, Michelangelo, Raphael, Titian, Bramante and other noted masters. Offered concurrently with ARH 5314; graduate students will be assigned additional work. Meets Multicultural requirement.
ARH 4305 Early Italian Renaissance Art
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051
Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 5315; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4412 Nineteenth Century European Art
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051
Focuses on the conflict between revolutionary and conservative forces in European art from Neo-Classicism to Symbolism. Offered concurrently with ARH 5440; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4450 Modern Art 1900-1950
3 sh (may not be repeated for credit)
Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 5465; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4470 Art After 1950
3 sh (may not be repeated for credit)
Central issues and concepts of contemporary movements in art. Meets Multicultural requirement.

ARH 4625 Art and Archaeology of the Ancient Andes
3 sh (may not be repeated for credit)
Cultural and artistic heritage of the pre-Columbian Andean region through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5658; graduate students will be assigned additional work. Meets Multicultural requirement.

ARH 4635 Art and Archaeology of Mesoamerica
3 sh (may not be repeated for credit)
Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5659; graduate students will be assigned additional work. Credit may not be earned in both ARH 4655 and ARH 4653. Meets Multicultural requirement.

ARH 4710 History of Photography
3 sh (may not be repeated for credit)
The history of photography and how it documents, relates to, reflects, and shapes history, culture and the arts. Offered concurrently with ARH 5715; graduate students will be assigned additional work.

ARH 4830C Museum and Gallery Studies
3 sh (may not be repeated for credit)
Examines in depth the theoretical and practical aspects of museum / gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 5836; graduate students will be assigned additional work. Credit may not be received in both ARH 4830C and ARH 3830C.

ARH 4835 Museum and Gallery Studies Practicum
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: ARH 4830C
Advanced study of theoretical and practical aspects of museum / gallery management through placement in a non-profit museum or gallery. Students participate in full range of activities available in the setting, but are also expected to complete a specific museum / gallery project. Offered concurrently with ARH 5947; graduate students will be assigned additional work. Permission is required.

ARH 4900 Readings in Art History
1-3 sh (may be repeated for up to 9 sh of credit)
Critical examination of the major research that shaped past and current opinion in an area of art history elected by the students. Advanced students only. Permission is required.

ARH 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ARH 4911 Research in Art History
3 sh (may be repeated for up to 6 sh of credit)
Provides the advanced art history student with an opportunity to design and execute an original research project, one which ideally leads to publication or implementation. May be selected as a capstone experience. (Gordon Rule Course: Wrtg) Permission is required.

ARH 4930 History of Art History Seminar
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051
Examines the changing perspectives and influences that have affected the discipline, from Vasari's biographical approach to the post-structuralism of the New Art History. Required for art history majors.

ARH 4955 Museum, Gallery, or Foreign Study Program
1-6 sh (may not be repeated for credit)
Deeper understanding of works of art through a direct study of originals. Credit may be given for independent study or course work completed at recognized museums, galleries, foreign universities, or study-abroad programs. Advanced students only. Graded on satisfactory / unsatisfactory basis only. Permission is required.

ARH 5315 Early Italian Renaissance Art
3 sh (may not be repeated for credit)
Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 4305; graduate students will be assigned additional work.

ARH 5465 Modern Art 1900-1950
3 sh (may not be repeated for credit)
Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 4450; graduate students will be assigned additional work.

ARH 5658 Art and Archaeology of the Ancient Andes
3 sh (may not be repeated for credit)
Cultural and artistic heritage of the pre-Columbian Andean region through a study of surviving artifacts and excavated sites.
ARH 5659 Art and Archaeology of Mesoamerica
3 sh (may not be repeated for credit)
Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 4653; graduate students will be assigned additional work.

ARH 5715 History of Photography
3 sh (may not be repeated for credit)
The history of photography and how it documents, relates to, reflects and shapes history, culture and the arts. Offered concurrently with ARH 4710; graduate students will be assigned additional work.

ARH 5836 Museum and Gallery Studies
3 sh (may not be repeated for credit)
Examines in depth the theoretical and practical aspects of museum/gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 4830C; graduate students will be assigned additional work. Permission is required.

ARH 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ARH 5947 Museum and Gallery Practicum
1-3 sh (may be repeated for up to 6 sh of credit)
Advanced study of theoretical and practical aspects of museum/gallery management through placement in a non-profit museum or gallery. Students will participate in a full range of activities available in the setting, but are also expected to complete a specific museum/gallery project. Offered concurrently with ARH 4835; graduate students will be assigned additional work. Permission is required.

ASTRONOMY Courses

AST 3033 Modern Astronomy
3 sh (may not be repeated for credit)
Comprehensive survey of the universe and its appearance from earth. Seasons, tides, eclipses. The solar system, stellar evolution and galaxies. Quasars, pulsars, black holes. (General Studies Course: NS / LEC).

AST 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BIOCHEM (BIOPHYSICS) Courses

BCH 3033 Biochemistry I
3 sh (may not be repeated for credit)
Prerequisite: (BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)) AND (CHM 2210/L OR CHM 2211/L)
A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they are derived. Conformational properties of biomolecules, enzyme kinetics and mechanisms, allosterism and cooperativity are surveyed. Material and supply fee will be assessed for corresponding lab.

BCH 3033L Biochemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: BCH 3033
A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they arrived. Conformational properties of biomolecules, enzyme kinetics, and mechanisms, allosterism and cooperativity are surveyed. Material and supply fee will be assessed.

BCH 3034 Biochemistry II
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Builds on the knowledge gained in BCH 3033 or CHM 2210 / CHM 2211 which deals with biological membranes and the anabolic and catabolic pathways of the major biological macromolecules.

BCH 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BCH 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BCH 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BCH 6107 Thesis
1-6 sh (may not be repeated for credit)
In collaboration with a chemistry faculty member, students will identify a significant biological chemistry oriented research topic. They will perform an extensive review of academic literature, develop testable hypotheses or research questions, gather and analyze experimental data, and write up final conclusions based on results of the experiments. May enroll for more than one term—minimum of 6 sh required for M.S. Biological Chemistry degree. Graded on a Satisfactory / Unsatisfactory basis only. Permission is required.

BCH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BIOLOGICAL OCEANOGRAPHY Courses

OCB 4104 Marine Field Ecology
2 sh (may not be repeated for credit)
A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 5106; graduate students will be assigned additional work.

OCB 5106 Marine Field Ecology
2 sh (may not be repeated for credit)
A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 4104; graduate students will be assigned additional work.

BIOLOGICAL SCIENCES Courses

BSC 1005 General Biology for Non-Majors
3 sh (may not be repeated for credit)
Survey of abiotic and biotic principles as they apply to basic structural and functional topics at the cellular, organismal, population and community levels; and the application of these principles to issues of current interest. (General Studies Course: NS / LEC).
BSC 1005L General Biology Laboratory for Non-Majors
1 sh (may not be repeated for credit)
Lab correlating with BSC 1005. Material and Supply Fee will be assessed. (General Studies Course: NS / LAB).

BSC 1050 Fundamentals of Ecology
3 sh (may not be repeated for credit)
Intended for non-majors who have an interest in nature and how they interact with nature. Gives general overview of ecological principles and how these principles influence the outside world around us. Imbedded are several activities that are associated with each chapter. The activities were developed so that the student will gain a respect for ecology as well as show how ecological principles affect your daily life. (General Studies: NS / LEC).

BSC 1085 Anatomy and Physiology I
3 sh (may not be repeated for credit)
General introduction to form and function of the human body. Review of basic anatomical / physiological attributes of integumentary, skeletal, muscular, nervous and sensory organ systems. Designed for students with little or no previous anatomy or physiology experience. Lab optional. (General Studies Course: NS / LEC).

BSC 1085L Anatomy and Physiology I Laboratory
1 sh (may not be repeated for credit)
Optional lab associated with course. Anatomical dissection and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. (General Studies Course: NS / LAB) Material and supply fee will be assessed.

BSC 1086 Anatomy and Physiology II
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085
Continuation of Anatomy and Physiology I. Reviews basic anatomical/physiological attributes of endocrine, cardiopulmonary, digestive, reproductive and immune systems. Lab optional. (General Studies Course: NS / LEC).

BSC 1086L Anatomy & Physiology II Laboratory
1 sh (may not be repeated for credit)
Optional lab associated with course. Anatomical dissections and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. (General Studies Course: NS / LAB) Material and Supply Fee will be assessed.

BSC 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BSC 2010 Biology I
3 sh (may not be repeated for credit)
Introduction to the cellular processes of living organisms, including subcellular structures, biochemical and genetic regulation of function and growth, reproduction, heredity, and evolution. Material and supply fee will be assessed for the corresponding lab.

BSC 2010L Biology I Laboratory
1 sh (may be repeated for up to sh of credit)
Prerequisite: BSC 2010
Introduction to the science method, reading, and writing, microscopy, and science measurement. Cellular processes of prokaryotic and eukaryotic organisms, including subcellular structures, biochemical and genetic regulation of function and growth, reproduction, heredity, and evidence of evolution. Material and supply fee will be assessed for this lab.

BSC 2011 Biology II
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L
Explores the diversity of life including bacteria, protists, fungi, plants and animals at the introductory level designed for students starting a major in biology. The course will outline the tree of life in illustrating the evolutionary relationships among organisms. The course will also cover basic functional morphology and physiology at the organismal level, and provide an introduction to ecological interactions at the population and community level.

BSC 2011L Biology II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: BSC 2011
Explores the diversity of life including bacteria, protists, fungi, plants and animals at the introductory level designed for students starting a major in biology. The course will outline the tree of life in illustrating the evolutionary relationships among organisms. The course will also cover basic functional morphology and physiology at the organismal level, and provide an introduction to ecological interactions at the population and community level.

BSC 2311 Introduction to Oceanography and Marine Biology
3 sh (may not be repeated for credit)
An introduction to the chemical, physical and geological features of the world ocean and the major groups of living marine organisms that inhabit it. Physical chemical and biological interrelationships will be emphasized. Credit not granted toward a major in Biology. (General Studies Course: NS / LEC).

BSC 2311L Introduction to Oceanography and Marine Biology Laboratory
1 sh (may not be repeated for credit)
Lab correlating with BSC 2311. Credit not granted toward a major in Biology. (General Studies Course: NS / LAB) Material and Supply Fee will be assessed.

BSC 2844 Biology Skills
1 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L
A professional development course for students in the Biology and Pre-professional curriculum plan. It will introduce the students to necessary skills for upper division biology courses, including reading and interpretation of scientific publications, scientific writing styles, ethics, and critical thinking.

BSC 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
BSC 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours per week must be done at the field site per semester hour of credit. Permission is required.

BSC 4263 Biological Oceanography
3 sh (may not be repeated for credit)
Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physiochemical properties of the pelagic realm.

BSC 4303 Biogeography
3 sh (may not be repeated for credit)
Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 5305; graduate students will be assigned additional work.

BSC 4307 Climate Change Biology
3 sh (may not be repeated for credit)
Natural processes and anthropogenic activities that are key forces in initiating and determining changes in Earth's environment on regional and global scales. An overview of Earth's dynamic environmental history relative to the biosphere, including methods used to reconstruct past climates and detect current trends; apparent and potential impacts of recent climate change and ozone depletion on organisms and ecosystems with perspectives on future predictions and modeling efforts. Offered concurrently with BSC 5308; graduate students will be assigned additional work.

BSC 4434 Introduction to Bioinformatics
3 sh (may not be repeated for credit)
A molecular renaissance in biology has produced a wealth of sequence and three-dimensional structure databases. "Mining" of these data with various computational methods to obtain useful information is an emerging interdisciplinary area of study. Students will review structure, function and evolution of proteins and nucleic acids as well as the latest computational methods for retrieval and interpretation of this bioinformation. Offered concurrently with BSC 5459; graduate students will be assigned additional work.

BSC 4854 Bioterrorism
3 sh (may not be repeated for credit)
Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 5856; graduate students will be assigned additional work.

BSC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Clinical experience in select health care locations within the region through Memoranda of Understanding (MOU) established with UWF and Biology. Permission process includes an interview conducted by the target health care entity to ensure expectations of student and health care entity will be met. Students will be expected to invest a minimum of 12 hrs / week on the project during the semester in which they are enrolled. A final report on the project(s) will be submitted. Permission is required.

BSC 4941 Clinical Experience in Health Care
3 sh (may not be repeated for credit)
Clinical experience in select health care locations within the region through Memoranda of Understanding (MOU) established with UWF and Biology. Permission process includes an interview conducted by the target health care entity to ensure expectations of student and health care entity will be met. Students will be expected to invest a minimum of 12 hrs / week on the project during the semester in which they are enrolled. A final report on the project(s) will be submitted. Permission is required.

BSC 4948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours per week must be done at the field site per semester hour of credit. Permission is required.

BSC 5308 Climate Change Biology
3 sh (may not be repeated for credit)
Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 5856; graduate students will be assigned additional work.

BSC 5305 Biogeography
3 sh (may not be repeated for credit)
Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 5305; graduate students will be assigned additional work.

BSC 5308 Climate Change Biology
3 sh (may not be repeated for credit)
Natural processes and anthropogenic activities that are key forces in initiating and determining changes in Earth's environment on regional and global scales. An overview of Earth's dynamic environmental history relative to the biosphere, including methods used to reconstruct past climates and detect current trends; apparent and potential impacts of recent climate change and ozone depletion on organisms and ecosystems with perspectives on future predictions and modeling efforts. Offered concurrently with BSC 4307; graduate students will be assigned additional work. Credit may not be received in both BSC 5308 and BSC 4307.
BSC 5459 Introduction to Bioinformatics  
3 sh (may not be repeated for credit)

A molecular renaissance in biology has produced a wealth of sequence and three-dimensional structure databases. "Mining" of these data with various computational methods to obtain useful information is an emerging interdisciplinary area of study. Students will review structure, function and evolution of proteins and nucleic acids as well as the latest computational methods for retrieval and interpretation of this bioinformation. Offered concurrently with BSC 4434; graduate students will be assigned additional work.

BSC 5856 Bioterrorism  
3 sh (may not be repeated for credit)

Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare / bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact, will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 4854; graduate students will be assigned additional work.

BSC 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BSC 6002L Contemporary Laboratory Skills  
4 sh (may not be repeated for credit)

A review of contemporary laboratory protocols and techniques necessary for the modern biologist to succeed in the professional, academic, or intellectual biology community. Provides students with a theoretical understanding of various techniques, their application, and the opportunity to master basic essential techniques in the laboratory. Topics include good laboratory practices, cell culture techniques, nucleic acid manipulation, macromolecular separation and detection, DNA analysis, chromatographic separations, spectrophotometry, microscopy, and radioisotope usage. Material and Supply Fee will be assessed.

BSC 6840 Professional Development in Biology  
3 sh (may not be repeated for credit)

A review of contemporary protocols, techniques, and methods needed to succeed in the professional, academic, or intellectual biology community. Topics include 1) organization of the professional and academic biology environment, 2) reading, interpreting, organizing and publishing biological literature, 3) biological project development, presentation, and funding, 4) locating and securing positions in the biological sciences.

BSC 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BSC 6941 Internship in Biomedical/Pharmaceutical Industry  
6 sh (may not be repeated for credit)

The student will be placed with a regional biotech / biomed / pharmaceutical company where they will be assigned to a lower or middle-level administrator and be engaged in the daily conduct of business in the industry. The industry mentor, in consultation with the faculty advisor, will assign a specific project to the student which engages information from one or more of the topics covered in the Professional Development course which must be completed in the time allotted. The student will be required to produce a written report describing their project and the project outcome in which they draw and defend conclusions and make and defend recommendations. Student performance will be assessed by the industry mentor in cooperation with the faculty advisor.

BSC 6971 Thesis  
1-6 sh (may be repeated for up to 12 sh of credit)

Graded on satisfactory / unsatisfactory basis only. Permission is required.

**BOTANY Courses**

BOT 2010 General Botany  
4 sh (may not be repeated for credit)

Co-requisite: BOT 2010L

Introduction to the basic concepts which apply to all plants including cell theory, biosynthetic processes, physiological response, development and reproduction, as well as consideration of plant morphology, systematics and evolution. Material and supply fee will be assessed for corresponding lab. (General Studies Course: NS / LEC).

BOT 2010L General Botany lab  
0 sh (may not be repeated for credit)

Co-requisite: BOT 2010

BOT 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BOT 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BOT 4374 Plant Developmental Biology  
4 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L  
Co-requisite: BOT 4374L

Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5376; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.
BOT 4374L Plant Developmental Biology Laboratory
0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 4374

Is designed to accompany BOT 4374. Features experiments that demonstrate and reinforce developmental processes presented in the lecture. Topics include cell division and elongation, phototropism, gravitropism, photoperiodism, seed germination, senescence, and plant tissue culture. Offered concurrently with BOT 5376L; graduate students will be assigned additional work. Material and supply fee will be assessed.

BOT 4404 Aquatic Botany
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4404L

Morphology, taxonomy, physiology and ecology of aquatic plants, especially freshwater and marine algae. Material and supply fee will be assessed for corresponding lab.

BOT 4404L Aquatic Botany Lab
0 sh (may not be repeated for credit)
Co-requisite: BOT 4404

Corresponding lab for Aquatic Botany.

BOT 4503 Plant Physiology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4503L

Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5506; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 4503L Plant Physiology Laboratory
0 sh (may not be repeated for credit)
Prerequisite: BOT 2010 AND ZOO 1010
Co-requisite: BOT 4503

Designed to accompany BOT 4503 and features experiments that demonstrate and reinforce physiological and biochemical principles presented in the lecture. Topics include plant nutrition, enzymology, photosynthesis, respiration, transpiration, plant hormones, and seed germination. Material and supply fee will be assessed. Offered concurrently with BOT 5506L; graduate students will be assigned additional work.

BOT 4734 Plant Biotechnology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4734L

Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and reinforces the principles presented in lecture. Material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 5735; graduate students will be assigned additional work.

BOT 4734L Plant Biotechnology Lab
0 sh (may not be repeated for credit)
Co-requisite: BOT 4734

Corresponding Lab for Plant Biotechnology.

BOT 4850 Medicinal Botany
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Pharmacognosy, the knowledge of drugs, grew out of the old herbal remedies passed down by tradition. Plant natural products continue to form the basis of many new therapeutic treatments in modern and alternative medicines. Provides a survey of phytochemicals that have proven useful for improving human health beyond the basic use of plants as a food source. Offered concurrently with BOT 5852 graduate students will be assigned additional work.

BOT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

BOT 5376 Plant Developmental Biology
4 sh (may not be repeated for credit)
Co-requisite: BOT 5376L

Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4374; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 5376L Plant Developmental Biology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: BOT 5376

Is designed to accompany BOT 5376. Features experiments that demonstrate and reinforce developmental processes presented in the lecture. Topics include cell division and elongation, phototropism, gravitropism, photoperiodism, seed germination, senescence, and plant tissue culture. Offered concurrently with BOT 4374L; graduate students will be assigned additional work. Material and supply fee will be assessed.
BOT 5506 Plant Physiology  
4 sh (may not be repeated for credit)  
Co-requisite: BOT 5506L  
Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4503; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 5506L Plant Physiology Lab  
0 sh (may not be repeated for credit)  
Co-requisite: BOT 5506  
Corresponding lab for Plant Physiology.

BOT 5735 Plant Biotechnology  
4 sh (may not be repeated for credit)  
Co-requisite: BOT 5735L  
Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and re-enforces the principles presented in lecture. A material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 4734; graduate students will be assigned additional work.

BOT 5735L Plant Biotechnology Lab  
0 sh (may not be repeated for credit)  
Co-requisite: BOT 5735  
Corresponding lab for Plant Biotechnology.

BOT 5852 Medicinal Botany  
3 sh (may not be repeated for credit)  
Pharmacognosy, the knowledge of drugs, grew out of the old herbal remedies passed down by tradition. Plant natural products continue to form the basis of many new therapeutic treatments in modern and alternative medicines. Provides a survey of phytochemicals that have proven useful for improving human health beyond the basic use of plants as a food source. Offered concurrently with BOT 4850; graduate students will be assigned additional work.

BOT 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BOT 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

### BUILDING CONSTRUCTION Courses

**BCN 2272 Blueprint Reading**  
3 sh (may not be repeated for credit)  
The reading of construction blueprints is a foundational skill in construction. All construction professionals, regardless of specific profession, must know how to read blueprints. Course provides foundational knowledge and enough practice at reading blueprints to give a basic understanding as well as the requirements for the GC Exam. Students are required to purchase a set of scales: architectural and engineering.

**BCN 2405 Statics and Strength of Materials**  
3 sh (may not be repeated for credit)  
Analysis and strength of structural elements for buildings, bridges and specialized structures that utilize steel and timber and concrete. Covers the statics of particles, rigid bodies, friction, strengths of materials such as wood, steel and concrete.

**BCN 2905 Directed Study**  
1-12 sh (may be repeated indefinitely for credit)

**BCN 3224 Construction Materials and Method**  
3 sh (may not be repeated for credit)  
Methods of how buildings are constructed - as they relate to the changing materials, methods and technologies - are explored. Focusing on the most common and practical building materials and methods, students will learn *means and methods? of construction through instructor guidance, class demonstrations, and hands-on experiences.

**BCN 3281C Construction Survey and Building Layout**  
3 sh (may not be repeated for credit)  
Application of surveying skills required in the field of construction, including building layout, indirect determination of elevation and distance, referencing, establishment of grade, and topographic mapping. Instruments used will include transit and automatic level. Credit cannot be received for both BCN 3281C and BCN 3282C.

**BCN 3561 Construction Mechanics I**  
3 sh (may not be repeated for credit)  
Introduces building mechanical and electrical system basics and related equipment. Areas of study included are heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting.

**BCN 3590 Sustainable Construction**  
3 sh (may not be repeated for credit)  
Sustainable construction knowledge is fast becoming a requirement in construction-related industries. Organizations and resources available to prepare and apply the practices, initiatives, materials, and theories of the practices of green building will be explored. Preparatory lectures for the LEED Professional Accreditation Exam.

**BCN 3731 Construction Safety**  
3 sh (may not be repeated for credit)  
Principles of safety in typical industrial and construction environments.

**BCN 3762 Building Codes**  
3 sh (may not be repeated for credit)  
An on-line course that covers the general requirements of the Florida Building Code for commercial construction, based on occupancy classification and construction type.
BCN 3767 CDT Prep Course: Construction Documents  
3 sh (may not be repeated for credit)

Preparation for the National Construction Specification Exam for Construction Document Technician certification. Material and Supply fee will be assessed.

BCN 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BCN 4258C Project Conceptualization  
3 sh (may not be repeated for credit)  
Prerequisite: BCN 2272 AND BCN 3224

Introduction to 3D Modeling software for Building Information Modeling (BIM). Activities are designed to provide in-depth theory with the use of BIM information and the impact on construction contracts and processes. There is a downloadable free BIM program that will be used but the student must have their own computer to load the program and use it for this course.

BCN 4431 Structures  
3 sh (may not be repeated for credit)  
Prerequisite: BCN 2405

Analysis and design of structural elements for buildings, bridges and specialized structures which utilize steel and timber. Includes the evaluation of beam shear, deflection, bearing and moment, plus column behavior, along with their connectors for both steel and timber, including laminates and plywood.

BCN 4461 Soils, Concrete, and Masonry  
3 sh (may be repeated for up to sh of credit)  
Prerequisite: BCN 4431

Analysis and design of concrete elements as related to construction, including forms, formwork design and form materials. Examination of reinforced concrete strength design methods as well as codes and safety as they apply to concrete structures.

BCN 4564 Construction Mechanics II  
3 sh (may not be repeated for credit)  
Prerequisite: BCN 3561

Examination of heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting. A construction site visit is included.

BCN 4701 Construction Administration  
3 sh (may not be repeated for credit)

Overview of the construction industry and professional requirements of management, administration and project management in construction environments. Consideration of information required to sit for the contractor’s examination.

BCN 4720C Scheduling  
3 sh (may not be repeated for credit)  
Prerequisite: BCN 4701 AND MAN 3583

Scheduling for construction project management is a critical skill in construction. An overview of scheduling techniques, applications, and software packages available; Primavera, a scheduling software package, will be used.

BCN 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BCN 4940 Construction Internship/Senior Project  
3 sh (may not be repeated for credit)

Field-based experience where students work in real-world situations with industry professionals. Permission is required.

**BUSINESS LAW Courses**

BUL 3130 Legal Environment of Business  
3 sh (may not be repeated for credit)

Background of law and legal environment of business, including administrative, social, political and ethical aspects. Coverage of law includes contracts, sales under Uniform Commercial Code, negotiable instruments and personal and real property.

BUL 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BUL 4602 Legal Fundamentals of Healthcare and Public Health  
3 sh (may be repeated for up to 6 sh of credit)

An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public’s health is examined with an analysis public health authority.

BUL 4605; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.

BUL 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BUL 5605 Legal Fundamentals of Healthcare and Public Health  
3 sh (may be repeated for up to 6 sh of credit)

An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public’s health is examined with an analysis public health authority.

A general overview of the laws controlling the provision of private sector healthcare including industry and professional regulation, prohibited payment schemes, Bioethics, end-of-life issues, informed medical consent, and patient privacy. Offered concurrently with BUL 5605; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.

BUL 5831 Commercial Law  
3 sh (may not be repeated for credit)

Study of selected topics in law pertaining to business transactions, business environment and associations, and financial securities.

BUL 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

BUL 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)
BUSINESS TEACHER ED Courses

BTE 4401 Special Methods of Teaching Business Education
4 sh (may not be repeated for credit)

Provides opportunities to become proficient in using special methods and procedural activities in business technology education classes. Credit may not be received in both BTE 4401 and EVT 4381.

CHEMICAL OCEANOGRAPHY Courses

OCC 4002 Chemical Oceanography
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topics covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, digenesis, and air-sea gas exchange.

OCC 4414 Global Biogeochemical Cycles
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.

CHEMISTRY Courses

CHM 1020 Concepts in Chemistry
3 sh (may not be repeated for credit)

Introduces the non-scientist to current and critical issues in chemistry. Readings from popular science publications. Discussion on topics such as polymers, radioactivity, toxic chemicals, energy, etc. Registration for the corresponding lab is encouraged but not required. (General Studies Course: NS / LEC).

CHM 1020L Concepts in Chemistry Lab
1 sh (may not be repeated for credit)
Prerequisite: CHM 1020

Introduction to laboratory safety, experimental techniques. Laboratory experiments on polymers, radioactivity, toxic chemicals, energy, etc. Material and supply fee will be assessed. (General Studies Course: NS / LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 1032 Fundamentals of General Chemistry
3 sh (may not be repeated for credit)

A one semester course presenting an introduction to the principles of general chemistry. Designed for students majoring in sciences other than biology and chemistry. Cannot be used to satisfy major requirements in chemistry or biology. (General Studies Course: NS / LEC).

CHM 1032L Fundamentals of General Chemistry Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 1032

Laboratory experiences illustrating the fundamental principles of CHM 1032. Students taking CHM 1032 concurrently are required to withdraw from CHM 1032L if they withdraw from CHM 1032. (General Studies Course: NS / LAB) A grade of "C-" or higher is required in prerequisite courses. Material and supply fee will be assessed.

CHM 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CHM 2045 General Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1140 OR MAC 2311

Chemical and physical properties, relationship between observables and concepts and the development of a theoretical framework. Topics will include atomic and molecular structure, theories of bonding, properties of the elements and periodicity. (General Studies Course: NS / LEC) A grade of "C-" or higher is required in prerequisite courses.

CHM 2045L General Chemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2045

Introduction to laboratory safety, experimental techniques, graphing of data, chemical reactivity and separations, calorimetry and volumetric analysis. Material and supply fee will be assessed. Students taking CHM 2045 concurrently are required to withdraw from CHM 2045L if they withdraw from CHM 2045. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 2046 General Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

Continuation of CHM 2045 with emphasis on chemical calculations and problem solving. Topics include thermodynamics, equilibria, kinetics and an introduction to transition metal complexes. (General Studies Course: NS / LEC) A grade of "C-" or higher is required in prerequisite courses.

CHM 2046L General Chemistry II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046

Experiments based on colligative properties, qualitative analysis, solution equilibria, kinetics, electrochemistry, radioactivity and synthesis. Material and supply fee will be assessed. Students taking CHM 2046 concurrently are required to withdraw from CHM 2046L if they withdraw from CHM 2046. (General Studies Course: NS / LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 2205 Fundamentals of Organic and Biochemistry
3 sh (may not be repeated for credit)

Terminal course in organic chemistry with biochemical applications. Nomenclature, reactions of functional groups, introduction to biochemistry. Cannot be used to satisfy major requirement in chemistry or biology. A grade of "C-" or better is required in prerequisite courses. Material and Supply fee will be assessed for corresponding lab. Credit cannot be earned in both CHM 2205 and CHM 2200.

CHM 2205L Fundamentals of Organic and Biochemistry Laboratory
1 sh (may not be repeated for credit)

Isolation, purification and synthesis, carbohydrates, amino acids, peptides and isoprenoids. Material and Supply fee will be assessed. Students taking CHM 2205 concurrently are required to withdraw from CHM 2205L if they withdraw from CHM 2205. A grade of "C-" or higher is required in prerequisite courses. Credit cannot be received for both CHM 2205L and CHM 2200L.
CHM 2210 Organic Chemistry I  
3 sh (may not be repeated for credit)  
Prerequisite: CHM 2046  
Nomenclature, structure, fundamental reactions, mechanistic interpretation of reactions, and spectroscopy.

CHM 2210L Organic Chemistry I Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: CHM 2046L AND CHM 2210  
Introduction to laboratory techniques in Organic Chemistry. Isolation, purification, and synthesis. Material and supply fee will be assessed. Students taking CHM 2210 concurrently are required to withdraw from CHM 2210L if they withdraw from CHM 2210. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211 Organic Chemistry II  
3 sh (may not be repeated for credit)  
Prerequisite: CHM 2210  
Nucleophilic and electrophilic substitution reactions, additions, eliminations, redox and rearrangement reactions, carbohydrates, amino acids, peptides, isoprenoids. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211L Organic Chemistry II Lab  
1 sh (may not be repeated for credit)  
Prerequisite: CHM 2211  
Multistep synthesis, separation of mixtures, identification of unknown organic compounds by classical and spectroscopic techniques. Material and supply fee will be assessed. Students taking CHM 2211 concurrently are required to withdraw from CHM 2211L if they withdraw from CHM 2211. A grade of "C-" or higher is required in prerequisite courses.

CHM 2212 Analytical Chemistry  
4 sh (may not be repeated for credit)  
Prerequisite: CHM 2045 AND CHM 2046  
Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and supply fee will be assessed for corresponding lab. 8 sh of general chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 2212L Analytical Chemistry Lab  
0 sh (may not be repeated for credit)  
Prerequisite: CHM 2046L  
Co-requisite: CHM 3120  
Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and Supply Fee will be assessed. 8 sh of general chemistry required. A grade of 'C-' or better is required in the prerequisite.

CHM 2213 Organic Chemistry III  
3 sh (may not be repeated for credit)  
Prerequisite: CHM 2210/L AND CHM 2211/L  
Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometallics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8 sh of organic chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3230 Organic Chemistry III  
3 sh (may not be repeated for credit)  
Prerequisite: CHM 2210/L AND CHM 2211/L  
Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometallics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8 sh of organic chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3230 Organic Chemistry III  
3 sh (may not be repeated for credit)  
Prerequisite: CHM 2210/L AND CHM 2211/L  
Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometallics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8 sh of organic chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3400C Basic Physical Chemistry  
4 sh (may not be repeated for credit)  
Prerequisite: (CHM 2211/L AND MAC 2312) OR PHY 2054/L OR PHY 2049/L  
A survey of the principles of Structure, Equilibrium, and Dynamics, applied to chemical systems. Includes experiments and other hands-on learning experiences.

CHM 3410 Physical Chemistry I  
5 sh (may not be repeated for credit)  
Prerequisite: CHM 2211 AND MAC 2312 AND PHY 2049/L  
Properties of gases, kinetic theory, chemical thermodynamics, heterogeneous equilibria, electrochemistry. A grade of "C-" or higher is required in prerequisite courses.

CHM 3411 Physical Chemistry II  
4 sh (may not be repeated for credit)  
Prerequisite: CHM 3410  
Atomic, molecular structure, spectroscopy, introduction to quantum theory and statistical mechanics. A grade of "C-" or higher is required in prerequisite courses.

CHM 3740L Advanced Laboratory Techniques  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 2211L AND CHM 3230  
Experimental work including advanced laboratory techniques for the synthesis and purification of organic, organometallic and inorganic complexes. Training in the use of instrumentation (chromatographic techniques, NMR, GC / MS, IR, UV-Vis, ORD / CD, etc.) for the purification and characterization of these materials. Students will be introduced to the use of the chemical literature, as well as record keeping and report writing. Material and supply fee will be assessed.

CHM 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

CHM 3741L Physical Chemistry Laboratory  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 3411 AND CHM 3740L  
Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

CHM 3400C Basic Physical Chemistry  
4 sh (may not be repeated for credit)  
Prerequisite: (CHM 2211/L AND MAC 2312) OR PHY 2054/L OR PHY 2049/L  
A survey of the principles of Structure, Equilibrium, and Dynamics, applied to chemical systems. Includes experiments and other hands-on learning experiences.

CHM 3410 Physical Chemistry I  
5 sh (may not be repeated for credit)  
Prerequisite: CHM 2211 AND MAC 2312 AND PHY 2049/L  
Properties of gases, kinetic theory, chemical thermodynamics, heterogeneous equilibria, electrochemistry. A grade of "C-" or higher is required in prerequisite courses.

CHM 3411 Physical Chemistry II  
4 sh (may not be repeated for credit)  
Prerequisite: CHM 3410  
Atomic, molecular structure, spectroscopy, introduction to quantum theory and statistical mechanics. A grade of "C-" or higher is required in prerequisite courses.

CHM 3740L Advanced Laboratory Techniques  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 2211L AND CHM 3230  
Experimental work including advanced laboratory techniques for the synthesis and purification of organic, organometallic and inorganic complexes. Training in the use of instrumentation (chromatographic techniques, NMR, GC / MS, IR, UV-Vis, ORD / CD, etc.) for the purification and characterization of these materials. Students will be introduced to the use of the chemical literature, as well as record keeping and report writing. Material and supply fee will be assessed.

CHM 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

CHM 3741L Physical Chemistry Laboratory  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 3411 AND CHM 3740L  
Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.
CHM 4130L Instrumental Analysis Lab
1 sh (may not be repeated for credit)
Prerequisite: CHM 3120 AND (CHM 3400C OR CHM 3411)
Co-requisite: CHM 4130

Corresponding lab for Instrumental Analysis lab.

CHM 4455 Introduction to Polymer Science
2 sh (may not be repeated for credit)
Prerequisite: CHM 2210/L AND CHM 2211/L AND (CHM 3400C OR CHM 3410)

Intended to introduce students to some of the major concepts Polymer Science: An Introduction to Macromolecules - Terms and Definitions; Structure and Bonding in Polymers; Step Growth Polymerization; Chain Growth Polymerization; Ionic Polymerization and Living Polymers; Copolymers; Chain Configurations, the Theta State and Chi Parameter; The Glass Transition Temperature; Biological Polymers; and Plastics Recycling.

CHM 4455L Introduction to Polymer Science Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2210/L AND CHM 2211/L AND (CHM 3400C OR CHM 3410)
Co-requisite: CHM 4455

Laboratory to accompany CHM 4455. Will provide fundamental laboratory skills in polymer synthesis and analysis. Material and supply fee will be assessed.

CHM 4610L Inorganic Synthesis
1 sh (may not be repeated for credit)
Prerequisite: CHM 4611

Modern techniques in the synthesis, separation, purification and characterization of inorganic compounds. Material and Supply fee will be assessed.

CHM 4611 Inorganic Chemistry
4 sh (may not be repeated for credit)
Prerequisite: CHM 3400C OR CHM 3411

The structure, reactivity, kinetics and reaction mechanisms of inorganic and organometallic compounds.

CHM 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CHM 4912 Undergraduate Chemistry Research
1-4 sh (may be repeated for up to 12 sh of credit)
Prerequisite: CHM 3400C OR CHM 3411

Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CHM 4931 Seminars in Chemistry
1 sh (may not be repeated for credit)

The course will include seminars by visiting scientists, university faculty and students on current research in chemistry, as well as scientific literacy, professional ethics, hazard waste regulations, resume writing, and presentation skills.

CHM 5134 Instrumental Analysis
4 sh (may not be repeated for credit)
Co-requisite: CHM 5134L

Physical chemical methods of chemical analysis. Required lab. Material and Supply Fee will be assessed for corresponding lab. A grade of "C-" or higher is required for all prerequisite courses. Offered concurrently with CHM 4130; graduate students will be assigned additional work.

CHM 5134L Instrumental Analysis Lab
0 sh (may not be repeated for credit)
Prerequisite: CHM 5134

Physical chemical methods of chemical analysis. A grade of "C-" or higher is required for prerequisite courses. Offered concurrently with CHM 4130L; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

CHM 5932 Seminar: Special Topics in Advanced Chemistry
3-4 sh (may be repeated for up to 7 sh of credit)

Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 4930; graduate students will be assigned additional work.

CHI 1100 Chinese Language I
3 sh (may not be repeated for credit)

An introduction to Mandarin, the official Chinese language. Designed for students with no previous knowledge of Chinese. Helps students obtain an adequate mastery of basic language skills in both spoken and written Chinese and develop a foundation for further study of the language.

CLASS GREEK (LANG STUDY) Courses

GRE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CLINICAL PSYCHOLOGY Courses

CLP 3144 Abnormal Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Broad overview of psychological disorders of children and adults including history of abnormal human behavior, research methods, theories and causes, and contemporary treatment. Typical topics include adjustment, mood, anxiety, somatoform, factitious, dissociative, substance-related, personality, and psychotic disorders (including schizophrenia).

CLP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
CLP 4314 Health Psychology  
3 sh (may not be repeated for credit)  
Survey of contributions of the discipline of psychology to the promotion and maintenance of health and prevention and treatment of illness. Application of biopsychosocial model to health. Credit cannot be received in both CLP 4314 and PSY 4820.

CLP 4390 Introduction to Forensic Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012  
This upper-level undergraduate course is designed to be an exciting and intellectually challenging introduction to the study of Forensic Psychology. Forensic Psychology deals with the interplay between the disciplines of psychology and law. Specifically, this class examines the legal system through the use of psychological concepts, methods, and research results. Although the course covers both criminal and civil aspects of the legal system, the primary focus will be on the role of psychologists in those areas pertaining to the criminal legal system. Class content focuses on theory but also has a strong experiential component as well. Specifically, the class learning experience culminates in the production of a Mock Trial.

CLP 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

CLP 5166 Psychopathology  
3 sh (may not be repeated for credit)  
In depth analysis of child and adult psychological disorders focusing on practical application of the current diagnostic manual in developing diagnostic formulations. Emphasis on an integrative theoretical approach and the empirical foundation for theory, causes, and treatment of psychological disorders.

CLP 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

CLP 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**COMMUNICATION Courses**

COM 3404 Nonverbal Communication  
3 sh (may not be repeated for credit)  
Prerequisite: SPC 3301  
Provides a comprehensive introduction to the role of nonverbal communication in the communication process, including major principles, theories, and research trends. Emphasis on observing and analyzing the functions of nonverbal communication in a variety of work and personal contexts.

COM 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

COM 3948 Service Learning Field Study II  
1-3 sh (may be repeated for up to 4 sh of credit)  
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlations between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours' work per week must be done at the field site per semester hour of credit.

COM 4014 Gender and Communication  
3 sh (may not be repeated for credit)  
Examines the roles gender plays in managing diversity in the workplace, developing personal relationships and exploring mass media in contemporary culture. Comparative study of characteristics of masculine/feminine communication in conversation. Meets Multicultural requirement.

COM 4022 Health Communication  
3 sh (may not be repeated for credit)  
Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education, and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 5025; graduate students will be assigned additional work.

COM 4103 Leadership Communication  
3 sh (may not be repeated for credit)  
Promotes leadership development through study of leadership theory and concepts and practical application of leadership laboratory experience. Based on a servant leader philosophy, focuses on building leadership competencies in interpersonal communication, public presentations, team building, working in multicultural environments, mentoring, problem solving and influence strategies used in interpersonal and public forums to bring about community and organizational change. Leadership skill-building opportunity to all participants. Credit may not be received in both COM 4103 and COM 4103C.

COM 4110 Business and Professional Communication  
3 sh (may not be repeated for credit)  
Practical understanding of communication practices affecting the workplace. Emphasis on managing work relationships, listening, organizational interviews, professional presentations, communication technologies and multi-cultural diversity.

COM 4120 Organizational Communication  
3 sh (may not be repeated for credit)  
Examines the dynamics of communicating within organizations and with stakeholders. Students analyze case studies of actual organizations and build skills related to teamwork, motivation, morale-building, leadership, decision-making, and more.

COM 4465 Conflict Management  
3 sh (may not be repeated for credit)  
Provides in-depth exposure to communication processes, strategies, and stages involved in conflict management and negotiation. Emphasis placed on application of competent communication behavior during conflict in personal and professional situations. Involves hands on, student learning project wherein students act as facilitators to help other students resolve conflicts.

COM 4620 Communication Ethics  
3 sh (may not be repeated for credit)  
Guides students in examining ethical considerations in business and public life. Includes diverse ethical perspectives, critical methods of analysis, and greater awareness of the role ethics plays in everyday life.
COM 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COM 4940 Internship in Communication
1-3 sh (may be repeated for up to 6 sh of credit)

Supervised field practicum in a communication-related position, to include advertising, broadcast and print journalism, telecommunications and film, organizational communication and public relations. Senior standing and a 2.7 overall GPA is required. Graded on a Satisfactory / Unsatisfactory basis only. Permission is required.

COM 5005 Introduction to Graduate Studies in Communication
1.5 sh (may not be repeated for credit)

Designed to introduce graduate students to critical elements of graduate studies in communication. Central topics include mastering the basics of APA style, honing analytic writing skills related to the study of communication, instructional resources, academic integrity issues unique to communication, and the history of the communication discipline.

COM 5025 Health Communication
3 sh (may not be repeated for credit)

Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 4022; graduate students will be assigned additional work. Graduate standing is required.

COM 5206 Communication Training
3 sh (may not be repeated for credit)

Prepares students to design and conduct communication skills training for professionals. Emphasizes adult learning, conducting needs assessments, establishing training objectives, using communication technology and evaluating training efforts. Involves a hands-on student learning project in which students conduct needs assessments and present two-hour workshops for local professional organizations. Other majors must confer with instructor regarding comparable prerequisites. Offered Fall of every other year.

COM 5335C Computer Mediated Communication
1.5 sh (may not be repeated for credit)

A seminar-style course covering practical and theoretical issues associated with how people use computers in their business, social, political, cultural, educational, and person activities. The approach is socio-psychological in nature, examining how communication technology is used to establish and expand personal identity, create interpersonal relationships and manage the tide of information represented by the Internet.

COM 5527 Communication Agency
1.5 sh (may not be repeated for credit)

Guides students through the development and implementation of a series of strategic and organizational communication projects utilizing an “agency-style” team based format. Permission is required.

COM 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COM 5933 Special Topics in Communication
3 sh (may not be repeated for credit)

Designed to provide students with specialized knowledge in a particular field of communication such as organizational communication, media criticism, rhetorical criticism, or visual communication. Permission is required.

COM 6024 Emerging Topics in Health Communication
1.5 sh (may not be repeated for credit)

Highlights how communication issues in health care are interwoven with community well-being, civic life, professional development, and opportunities for collaboration and mutual gain. Topics may include health care reform, leadership in health care settings, patient and family satisfaction, privacy issues, and burnout among health professionals. Utilizes current research, theoretical foundations, and local health care experts to explore relevant and emerging issues. Uses health care case studies to develop effective leadership and strategic communication strategies.

COM 6027 Health Communication Leadership Project
3 sh (may not be repeated for credit)

Guides participants through the completion and implementation of a final project, building on the knowledge and skills acquired in COM 6023, COM 6026, and COM 6029. Permission is required.

COM 6028 Health Communication Leadership Capstone
3 sh (may not be repeated for credit)

Prerequisite: COM 6312 AND MAN 6156 AND MAN 6285

A series of workshops aimed at helping students synthesize their experience in both the Health Communication Certificate courses and the Organizational Development Leadership courses. Permission is required.

COM 6129 Assessing Organizational Dynamics
3 sh (may not be repeated for credit)

Applying systems thinking to analyze the dynamics of communication within an actual organization. Emphasis on deep-level analysis to reveal who talks to whom, when, why, and about what. Goals are (1) to reveal communication patterns and assumptions that make it either easy or difficult to achieve high quality organizational production and (2) to help organizational members design processes that foster the creation of high-performance, high-capacity teams.

COM 6207 Advanced Communication Leadership
3 sh (may not be repeated for credit)

Based on a hands-on leadership project informed by the study of leadership communication theory, research, and case studies. Emphasis is on developing communication skills, strategy, and awareness to enhance leaders' effectiveness. Permission is required.

COM 6210 Emerging Topics in Nonprofit Organizational Communication
1.5 sh (may not be repeated for credit)

Exploration of current communication issues and challenges facing today's nonprofit organizations. Emphasizes the development of strategies to address these issues through case studies, course readings, and by studying the communication challenges of local nonprofit organizations.
COM 6312 Advanced Communication Research Methods  
3 sh (may not be repeated for credit)

This course addresses the philosophy of scientific research including the origins, nature, and effects of communication processes. Focuses on both theoretical and applied research. Primary emphasis is on quantitative investigation and applied research. Primary emphasis is on qualitative investigation with some consideration of qualitative methods. Focus is on achieving a solid understanding of the strengths and weaknesses of different methodological approaches (i.e., experiments vs. surveys vs. interviews) in order to determine the most effective methods for research questions or hypotheses. Students are expected to have completed at least one introductory college level statistics course preceding enrollment in this course.

COM 6511 Emerging Topics in Political Communication  
1.5 sh (may not be repeated for credit)

Advanced political communication theory and current practice that focuses on consultancy-based political campaigning, government advocacy and public relations. Particular emphasis is on the critical analysis of advocacy texts and development of strategic plans for campaign communication.

COM 6525 Strategic Communication  
3 sh (may not be repeated for credit)

Provides a conceptual framework for strategic communication, sharpens analytical and critical thinking, and provides a unifying function for the Strategic Communication & Leadership Program. Addresses all aspects of the development and execution of communication programs. Offers "real world" experience through the analysis of case studies. Case studies and coursework will be drawn from the profit, non-profit, product, and service sectors. Particular attention will be paid to sociopsychological, legal, and ethical issues as they relate to the decision-making process.

COM 6528 Team-Based Project  
1.5 sh (may not be repeated for credit)

Guides a team of students in applying the principles of strategic communication, leadership, and project management to a community-based project. Permission is required.

COM 6625 Emerging Topics in Communication Law and Ethics  
1.5 sh (may not be repeated for credit)

An advanced seminar covering legal issues such as the First Amendment, political speech, defamation, emerging technologies, and access to information; and ethical issues such as taste and editorial content.

COM 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

COM 6930 Organizational Communication Project  
1-6 sh (may not be repeated for credit)

Advanced research project for a major corporate or organizational client. Working with a client organization, students will identify a problem for study, perform an extensive review of issues related to the project, develop several testable research questions or hypotheses about the problem, gather and analyze qualitative and/or quantitative data, and write an extensive report, including summary conclusions based on the study. May enroll for more than one term, minimum of 6sh required for M.A. degree. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

COM 6980 Dissertation  
1-6 sh (may be repeated for up to 18 sh of credit)

Designed specifically for students pursuing a Doctorate of Education degree at UWF and specializing in Social Sciences / Communication Arts. Involves in-depth study of communication theory and research, as guided by a major professor and doctoral committee. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

COMMUNITY PSYCHOLOGY Courses

CYP 6005 Community Psychology  
3 sh (may not be repeated for credit)

Introduces the student to the field of community psychology which is the branch of psychology that seeks to understand relationships between environmental conditions and the development of health and well-being of all members of a community. Students will study the development of the field of community psychology and its theories and paradigms of research and action. Additionally, students will concentrate on the practice of community psychology.

CYP 6538 The Consultation Process  
3 sh (may not be repeated for credit)

Addresses the historical roots of mental health consultation, basic concepts in mental health consultation, the consultation process, and the various types of mental health consultation. Considerable emphasis is given to working within public schools and consulting with outside agencies. Consultation is defined and contrasted to other helping relationships, and definitional issues are addressed. Includes a discussion of the skills and characteristics of the consultant, and ethical and legal considerations.

CYP 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

COMP PSYCH ANIMAL BEHAV Courses

CBH 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

COMPARATIVE POLITICS Courses

CPO 2002 Comparative Politics  
3 sh (may not be repeated for credit)

Examination of political processes and political institutions in selected foreign countries such as Britain, France, Germany, USSR, Japan and India. Methods of cross-national political analysis. (General Studies Course: SS / SOC) Meets Multicultural requirement.

CPO 3055 Dictatorships  
3 sh (may not be repeated for credit)

The course will carry out a comparative analysis of dictatorships across time and space, with special attention paid to 20th century totalitarian regimes, including those of Hitler, Stalin, and Mao. The analysis will focus on some of the causes for the rise and fall of these dictatorships, their ruling personalities and methods, the costs imposed on their subject populations, and their long-term effects on the politics of their representative countries. The course will begin with selections from classic writings on tyranny from Plato, Aristotle, Suetonius, and Machiavelli. Then, using scholarly texts, novels, and films, we will examine historical cases from several continents, drawing parallels and contrasts across them.
CPO 3103 Politics of Western Europe
3 sh (may not be repeated for credit)
Political processes and institutions of selected European political systems. Meets Multicultural requirement.

CPO 3322 Cuba, Castro and the USA
3 sh (may not be repeated for credit)
The course will carry out an analysis of Cuban politics, domestically and in relation to the USA, from the outbreak of the Spanish-American War to the present, with special emphasis on the Castro era (i.e., 1959 to the present). The analysis will compare Cuba’s standard of living, nature and structure of standing before Fidel Castro seized power in the early years of the Cuban Revolution and at different times during his nearly 50-year reign. Some attention will be paid to how Cubans who came to the USA after Castro have fared, especially politically.

CPO 3513 Politics of the Far East-Japan and China
3 sh (may not be repeated for credit)
Political systems of China and Japan offer striking comparisons to each other and to the United States. They provide two non-Western cultural contexts within which some Western political ideas and institutions operate. Meets Multicultural requirement.

CPO 3614 Politics of Eastern Europe
3 sh (may not be repeated for credit)
This course follows the transition from communism to democratization through democratic consolidation in Eastern Europe. It explores the question: how democratic are they today, nearly a decade and a half after the collapse of communism? Emphasis is on the changes in post- Soviet states, their organization and political culture and identity, and contemporary issues. Several countries will be considered in greater depth, including Poland, the Czech Republic, Hungary, and East Germany. Specific issues will be addressed across Eastern Europe, including the communist legacy, economic development, interest group emergence, social problems, civil society challenges, and nationalism.

CPO 3773 Great World Leaders
3 sh (may not be repeated for credit)
Reviews ancient and contemporary theories of political leadership, contrasting leadership in democratic and dictatorial regimes in the context of case studies around the world, across continents and time periods. Meets Multicultural requirement.

CPO 4303 Politics of Spain, Portugal, and Latin America
3 sh (may not be repeated for credit)
The politics of Spain, Portugal, and the largest Latin American countries (Argentina, Brazil, Mexico) and, as time permits, other countries of particular concern to the United States. Meets Multicultural requirement.

CPO 4314 Democracies
3 sh (may not be repeated for credit)
This course examines what it means to be a 21st century democracy. It explores institutional variants of democracy, including different structures of government and electoral systems. It considers the promise and the problems that democracy holds. In the course we will explore democratic variants examining factors such as accountability, competitiveness, transparency, representation. We will examine democratization and how to build and sustain democracy. We will consider preconditions for democracy and discuss the complex relationship between democracy and economics. Offered concurrently with CPO 5315; graduate students will be assigned additional work.

CPO 4792 Geopolitics
3 sh (may not be repeated for credit)
Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold War period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relates to the larger issue of state power and US national policy. Offered concurrently with CPO 5797 graduate students will be assigned additional work.

CPO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CPO 5315 Democracies
3 sh (may not be repeated for credit)
This course examines what it means to be a 21st century democracy. It explores institutional variants of democracy, including different structures of government and electoral systems. It considers the promise and the problems that democracy holds. In the course we will explore democratic variants examining factors such as accountability, competitiveness, transparency, representation. We will examine democratization and how to build and sustain democracy. We will consider preconditions for democracy and discuss the complex relationship between democracy and economics. Offered concurrently with CPO 4314; graduate students will be assigned additional work.

CPO 5797 Geopolitics
3 sh (may not be repeated for credit)
Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold War period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relates to the larger issue of state power and US national policy. Graduate students will be assigned a substantial research project from which they will lead the class on their specific subject. They will also lead their respective teams in the research of an international maritime case study to demonstrate the complexity of dealing with inter- national law. This course is dual-listed with CPO4792.

CPO 6006 Seminar in Comparative Politics
3 sh (may not be repeated for credit)
Comparison and analysis of political systems, theoretical and empirical.

CPO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COMPT SCI INFORM SYSTS Courses

CIS 3512 Software Documentation
3 sh (may not be repeated for credit)
Prerequisite: ENC 1102
Introduction to major concepts of software documentation. Emphasis on construction of software system artifacts that support team development and evolution of software systems (e.g., memos, letters, project proposals, progress reports, requirements, specifications, design, test plans, test reports, project reports). MLA, APA, and LaTex publication standards will be applied. Open to all majors (Gordon Rule course: Wrtg).
CIS 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

CIS 4340 Web Server Technologies
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 AND COP 4710
Introduction to web server technologies (representative technologies - ASP.net, ColdFusion), to develop web applications. Methods include user interfaces, database connectivity and interactivity and XML manipulation.

CIS 4361C IT Security
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2830
Introduction to skills, knowledge, techniques, and tools required by information-technology security professionals. Topics include security and risk management, physical security, access control, cryptography, security architecture and design, security for networks and telecommunications, application security, and legal considerations.

CIS 4368 Introduction to Database Security
3 sh (may not be repeated for credit)
Prerequisite: COP 4710
The Database Security course follows guidelines set forth by the National Security Agency/Department of Homeland Security Centers of Academic Excellence in Information Assurance and Cyber Defense. This course is considered a core knowledge unit for institutions to be considered a Center of Academic Excellence. Database Security is designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This undergraduate course is required for the B.S. in Cybersecurity and will be elective for all other undergraduate Computer Science programs. Prerequisites: COP 4710, minimum grade of C-. 

CIS 4385 Cyber-Security and Forensics
3 sh (may be repeated for up to sh of credit)
Prerequisite: COP 3530
This course provides a understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will learn about federal and state computer crime laws, penalties for illegal computer hacking thus providing a foundation in forensic evidence collection from electronic devices and the implications of security to users and forensic examiners. Applicable laws; disk and file recovery; persistent data; cryptography; privacy and anonymity; tools for collecting evidence and reporting results. Offered concurrently with CIS 5396; graduate students will be assigned additional work. Credit cannot be received in both CIS 4385 and CIS 5396.

CIS 4590 Capstone Project I
3 sh (may not be repeated for credit)
Prerequisite: COP 4331
This is the first course of the two-course Capstone Project sequence for the Computer Science program. The course provides foundational software engineering concepts focusing on best practices and methods for designing, developing, and evaluating software systems. Students will work individually or as teams to identify a capstone project topic that focuses on developing a software system to solve a complex real-world problem. Students will develop a project proposal, plan and design specifications for their selected project topic. The final product will be the design of a software system and plan for system completion and evaluation, which will form the basis of their work in the Capstone Project II course. Prerequisites: COP 4331, minimum grade C-.

CIS 4592 Capstone Project II
3 sh (may not be repeated for credit)
Prerequisite: CIS 4590
This is the second course of the two-course Capstone Project sequence for the Computer Science Program. The second course provides additional software engineering concepts and skills for developing and evaluating software systems. Students will continue the project they started in Capstone I, and work individually or as teams to develop a software system to solve a complex real-world problem. Students will develop a project plan, multiple prototypes and a final software system for the project topic and design developed in Capstone I. Students will also develop a final report that includes an evaluation of their system and present their project outcomes.

CIS 4595C Capstone Systems Project
3 sh (may not be repeated for credit)
Prerequisite: CEN 3032 OR (CNT 4007C AND CNT 4014C)
Develop a software system for a real-world client while working in small teams. Develop and deliver relevant artifacts such as a project proposal, design, test plan, code, user's manual, and project log with metrics as the software system evolves throughout the course. A final presentation and evaluation of the project experience will be prepared.

CIS 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CIS 4911 IT Capstone Project
3 sh (may not be repeated for credit)
Prerequisite: CNT 4014C
Real-world experiential opportunities through observation, participation, and implementation of a project within campus or for other local organization. Development of project proposals, implementation of solutions and analysis of outcomes will be stressed. Course should be taken in the final semester of the degree program.

CIS 4931 Computer Science Seminar: Topic I
1-4 sh (may be repeated for up to 8 sh of credit)
Modern topics in Computer Science will be explored. Topics will vary. Open to all majors. Credit cannot be applied to the CS Concentration electives.

CIS 4941 Computer Science Internship
1-3 sh (may not be repeated for credit)
Supervised field practicum in computer-related position. May include activities in computer programming, database administration, web-development, systems administration, network security, etc. Graded on satisfactory / unsatisfactory basis only. Permission is required.
CIS 5396 Cyber-Security Forensics
3 sh (may not be repeated for credit)
Prerequisite: CDA 6415 AND COP 8025
This course provides an understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. Students will learn about federal and state computer crime laws and penalties for illegal computer hacking. The course provides a foundation in forensic evidence collection from electronic devices and explains the implications of security to users and forensic examiners. Offered concurrently with CIS 4385: graduate students will be assigned additional work. Credit may not be received in both CIS 5396 and CIS 4385.

CIS 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CIS 6376 Database Security
3 sh (may not be repeated for credit)
Prerequisite: COP 5725
Database Security is designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This course will cover various methods to ensure information confidentiality, integrity and availability on an assortment of data storage systems. This graduate course is a requirement for the M.S.A. in Cyber Security and will be an elective for all other graduate Computer Science programs. Prerequisites: COP 5725 minimum grade of C.

CIS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CIS 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

**COMPUTER APPLICATIONS Courses**

CAP 3028 Introduction to Computer Game Programming (Graphic Symbols and Animations)
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Design and implementation of various elements of computer game programming with popular commercial software. Includes creation and manipulation of graphics and text symbols which include masking, transformations, use of different types of animations such as frame by frame animation, shape tweening, motion tweening and streamline animation to promote visually attractive movie clips. Upon completion of the course, students will be able to design and develop an interactive adventure game.

CAP 4029 Game Programming 2
3 sh (may not be repeated for credit)
Prerequisite: CAP 3028
Design and implementation of various elements of 3D computer game programming with popular commercial software. Includes creation, manipulation, and rendering of 3D graphics and text symbols. Object oriented design of games, GUI for games, and role of finite state machines in game development will be discussed. A discussion on game modeling will also be included.

CAP 4033C 3D Modeling and Animation
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2334 OR COP 2830
Introduction to basic principles of 3D modeling and animation. Students use popular commercial software to create 3D models and animation. Students will be introduced to aspects of 3D modeling and animation which include working with objects, models, textures, lighting, particle effects and rendering. Permission is required.

CAP 4053 AI Programming for Intelligent Environments
3 sh (may not be repeated for credit)
Prerequisite: COP 3530
Introduction to the use of AI methods and programming for the development of intelligent systems, including game AI systems, robotic applications, and educational environments. Students will identify an appropriate AI project topic of interest to them, and work individually or as teams to design, develop, and evaluate an AI system for that topic.

CAP 4601 Artificial Intelligence
3 sh (may not be repeated for credit)
Prerequisite: COP 3411 OR COP 3530
Introduction to Artificial Intelligence principles and techniques. Students will learn about core AI techniques for solving complex problems, including search strategies, knowledge-based techniques, and agent-based systems. Overview of AI topics such as intelligent agents, machine learning, as well as AI applications.

CAP 4710 Computer Graphics and Simulation
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND MAS 3105
This course provides foundational concepts in computer graphics and simulations that enable students to develop new interactive 2D and 3D computer visualizations. Students will be able to develop and evaluate their programs in state of the art computing and virtual reality labs at the School of Science & Engineering.

CAP 4770 Data Mining
3 sh (may not be repeated for credit)
Prerequisite: COP 4710
Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining and decision tree induction. Offered concurrently with CAP 5771; graduate students will be assigned additional work.

CAP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CAP 5600 Introduction to Artificial Intelligence
3 sh (may not be repeated for credit)
Introduction to basic Artificial Intelligence theories and methods for solving complex and difficult problems using computers; goal-oriented procedures, search problems, knowledge representation and machine learning. Topics will include intelligent systems such as expert systems, intelligent agents and robots. Will be conducted within a cognitive science framework.
CAP 5701 Computer Graphics and Simulation
3 sh (may not be repeated for credit)
Prerequisite: COP 3530 AND MAC 2312 AND MAS 3105
This course provides foundational concepts in computer graphics and simulations that enable students to develop new interactive 2D and 3D computer visualizations. Students will be able to develop and evaluate their programs in state of the art computing and virtual reality labs at the School of Science & Engineering.

CAP 5771 Data Mining
3 sh (may not be repeated for credit)
Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining, decision tree induction, bayesian classification and prediction, and cluster analysis. Offered concurrently with CAP 4770; graduate students will be assigned additional work. Students who have taken CAP 4770 cannot earn credit for this course.

CAP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CDA 3101 Introduction to Computer Organization
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2334 OR EEL 4834
Introduction to the organization and operation of a digital computer including the internal representation of data and instructions, processor design and execution along with bus and I-O subsystems and assembly language programming.

CDA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CDA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CDA 6415 Advanced Computer Systems
4 sh (may not be repeated for credit)
Examines current advancements in computer hardware, the operating systems facilities required for those advances, and the programming practices needed to take advantage of them. Topics include pipelined, hyperthreaded and multicore processors, scheduling algorithms, cache, memory management, and nontraditional hardware. Students should have basic knowledge of internal representation of data and instruction, processor design, IO subsystems and assembly language. Permission is required.

CDA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COMPUTER DESIGN/ARCHIT Courses

CDA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COMPUTER ENGINEERING Courses

CEN 3031 Software Engineering I
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253
Preparation of software planning, specifications, design, coding, testing and maintenance. Familiarization with the team approach to large software system development with an emphasis on the early part of the software lifecycle.

CEN 3032 Software Engineering II
3 sh (may not be repeated for credit)
Prerequisite: CEN 3031 AND CIS 3512 AND (COP 3530 OR COP 3022)
Small team development of different software components that are then integrated into a complete software system. Emphasis on the later part of the software lifecycle.

CEN 4053 Software Engineering Management
3 sh (may not be repeated for credit)
Prerequisite: CEN 3032
Reviews concepts and principles related to the management of software development and evolution projects.

CEN 4078 Secure Software Development
3 sh (may not be repeated for credit)
Prerequisite: (COP 3022 OR COP 4331) AND COP 3530
Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles.
CEN 4340C IT Infrastructure Planning, Acquisition, and Integration
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 2830
A systematic examination of the hardware and software analysis and design or information technology systems. Acquisition of assets for integration into a new or existing infrastructure. Explores what makes IT projects different from other types of systems and how the principles and methods of system development can be integrated to define the IT system. Topics include hardware and software system implementation, information assurance, hardware and software catastrophe recovery, hardware and software configuration management, software license knowledge and monitoring, system hardware and software infrastructure support, infrastructure environmental concerns, and data and system integration.

CEN 4400 Introduction to Operations Research
3 sh (may not be repeated for credit)
Prerequisite: (MAC 2311 OR MAC 2233) AND (STA 2023 OR STA 4321)
Introduction to methodology and mathematical techniques of operations research, a scientific approach to problem solving and decision-making for executive management. Topics include linear programming, inventory theory, queuing theory, simulation and PERT-CPM, with emphasis on computer application. Some experience with computer programming is required.

CEN 4721 Human-Computer Interaction
3 sh (may not be repeated for credit)
Introduces students to the design of the interaction between people and computers. It will give students insight and experience in key issues of HCI design, and will sample different areas related to human-computer interaction. In class and in discussion sections, students will discuss issues and tradeoffs in interaction design, propose effective designs, and evaluate alternative solutions to design problems.

CEN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Graduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report is required upon completion of the course. Can be used for research leading to master's thesis. Permission is required.

CEN 4910 Undergraduate Computer Science Research
1-4 sh (may be repeated for up to 7 sh of credit)
Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CEN 4921 Human-Computer Interaction
3 sh (may not be repeated for credit)
Introduces students to the design of the interaction between people and computers. It will give students insight and experience in key issues of HCI design, and will sample different areas related to human-computer interaction. In class and in discussion sections, students will discuss issues and tradeoffs in interaction design, propose effective designs, and evaluate alternative solutions to design problems.

CEN 4979 Secure Software Development
3 sh (may not be repeated for credit)
Prerequisite: COP 5007
Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles. Prior to taking this course students should have knowledge and skill in software development. Offered concurrently CEN 4078; Graduate students will have additional work.

CEN 5059 Directed Study
1-4 sh (may not be repeated for credit)
Graduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report is required upon completion of the course. Can be used for research leading to master's thesis. Permission is required.

CEN 5079 Secure Software Development
3 sh (may not be repeated for credit)
Prerequisite: COP 5007
Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles. Prior to taking this course students should have knowledge and skill in software development. Offered concurrently CEN 4078; Graduate students will have additional work.

CEN 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Graduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report is required upon completion of the course. Can be used for research leading to master's thesis. Permission is required.

CEN 5915 Graduate Computer Science Research
1-4 sh (may not be repeated for credit)
Graduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report is required upon completion of the course. Can be used for research leading to master's thesis. Permission is required.

CEN 5927 Software Engineering Process Improvement
3 sh (may not be repeated for credit)
Prerequisite: CEN 6027
This course examines concepts and methods related to performing process improvement for improving the quality of software systems developed/maintained within organizations. Various process improvement models will be considered with an emphasis on the Capability Maturity Model Integration model. Offered Fall Semester only.

CEN 6016 Software Engineering Process
4 sh (may not be repeated for credit)
Review of current topics and trends in software engineering. Prominent software engineering approaches, methods, and processes (e.g., CMMI, Agile processes) are examined and compared. Culminates with a detailed study of one specific software engineering process.

CEN 6027 Software Engineering Process Improvement
3 sh (may not be repeated for credit)
Prerequisite: CEN 6027
This course examines concepts and methods related to performing process improvement for improving the quality of software systems developed/maintained within organizations. Various process improvement models will be considered with an emphasis on the Capability Maturity Model Integration model. Offered Fall Semester only.

CEN 6064 Software Design
4 sh (may not be repeated for credit)
Prerequisite: CEN 6016
Examination of the design principles/methodologies appropriate for developing complex software systems. Goals include comparative analysis of existing design methods, object-oriented design paradigms, and the extensions of modern design techniques and principles to the design of software with distributed implementations in mind. Offered Spring semester only.

CEN 6070 Software Testing and Verification
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016
Introduction to the main concepts and methods used to produce correct software. Focuses on software quality assurance through systematic software testing. Students learn to create test sets that exercise software to specified coverage standards and to conduct software inspections. Other verification and validation methods selected by the instructor are also introduced.
CEN 6074 Software Assurance and Security
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016

Concepts and principles related to developing and maintaining secure software systems with no exploitable vulnerabilities with high levels of integrity and reliability.

CEN 6075 Software Specification and Implementation
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016

Study of the concepts and importance of software specification as an essential stage in the development of a software product. Students learn to prepare software specifications using both formal specification techniques and informal text-based specifications that follow a standard model.

CEN 6095 Software Engineering Practice and Tools
4 sh (may not be repeated for credit)
Prerequisite: CEN 6016 AND COP 5007

Practicum course simulating best practices used in the software industry for maintaining software systems. Emphasis on the use of modern software methods and tools. Permission is required.

CEN 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CEN 6930 Advanced Topics in Computer Software and Engineering
3 sh (may not be repeated for credit)
Selected topics in computer software and engineering. Prerequisites will vary according to specific subject material to be covered.

COMPUTER ENGINEERING TECH Courses

CET 3135 Microcontroller Technology
3 sh (may not be repeated for credit)
Exploration of a wide range of topics in guiding students through real-time control software and interfacing, concentrating on applications of microcontroller.

CET 3135L Microcontroller Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MAC 1105
Co-requisite: CET 3135

Laboratory for CET 3135 Microcontrollers. Application of microcontrollers in various real-world settings.

CET 3450 Data Visualization
3 sh (may not be repeated for credit)

Students will develop skills to efficiently and effectively display data, using a variety of tools that can be used to prepare and present the data in visually compelling manners. Data visualization tools have wide applicability in a wide variety of settings and environments in documentation and presentations.

COMPUTER GENERAL STUDIES Courses

CGS 2060 Excursions in Computing
3 sh (may not be repeated for credit)
Explore and understand the role of computing in today's highly technological world. Examine the effective and ethical use of computing technology to address general and specialized domains and practice project delivery deadlines involving this technology. Topics include: role of computing, recent advances in computer hardware, system software options, system connectivity, time management and presentation technology, tools for researching current technology, algorithms, and limits of computing ethics.(General Studies Course: NAT / LEC).

CGS 2060L Excursions in Computing Lab
1 sh (may not be repeated for credit)
Computing experiments in a contemporary interactive environment. Experiments will reinforce the omnipresence of computing in society. General Studies Course (NS / LAB).

CGS 2570 Personal Computer Applications
3 sh (may not be repeated for credit)
Internet Based online course, which provides practical experience with current popular microcomputer application packages. Students typically learn to use word-processing, spreadsheet, database software, and PowerPoint. Required for CIS majors but may not be taken for credit by CS majors.

CGS 3183 Web Design for E-Commerce
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570 OR CGS 3853
Introduces the student to the concepts and principles of designing software tools used in web applications for electronic commerce. The student will gain hands on experience in developing, manipulating, and implementing web tools for electronic transactions such as a web database and an electronic shopping cart. Credit may not be received in both CGS 3183 and CGS 3172.

CGS 3284 Network Management and Design
12 sh (may not be repeated for credit)
Develops the skills required to successfully manage and troubleshoot the ongoing needs of Microsoft Windows 2000 and 2003 server-based operating system environments, including Windows.Net Server. May not be taken for credit by CS/CIS majors. Permission is required.

CGS 3464 Programming Using Visual Basic for Non-Majors
3 sh (may not be repeated for credit)
An introductory course in programming for non-majors. Incorporates the basic concepts of programming, programming logic and problem solving, as well as the design features of a visual, event driven language. Students will use a visual interface to program useful applications Assumes no prior computer knowledge. May not be taken for credit by CS / CIS majors.

CGS 3559 Exploring the Internet
3 sh (may not be repeated for credit)
Introduces the student to the Internet, using the Internet itself as the main source of information. Tools, including World Wide Web browsers, mail programs and other electronic devices will be presented and used. At the end of the course the student should be able to recognize the extent, capabilities, advantages, and problems involving the Internet. May not be taken for credit by CS / CIS majors.
CGS 3604 Applications of Information Technology
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570 AND (MAC 1105 OR MAC 1140)
Investigates current applications of information technology in business, scientific research, education, and media, and examines issues facing the information technology professional working in a variety of disciplines.

CGS 3853 Web Page Design
3 sh (may not be repeated for credit)
Techniques for the creation of web sites that are flexible, scalable, and that take advantage of the World Wide Web. Topics include: FTP, HTML tags and web servers. Requires some research and project development. May not be taken for credit by CS / CIS majors. Credit may not be received in both CGS 3853 and CGS 3823.

CGS 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CGS 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CGS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COMPUTER NETWORKS Courses

CNT 4007C Theory and Fundamentals of Networks
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2334 OR COP 2830
A functional systematic examination of the key components and theories of modern computer networks, including protocol stack, mobile networking, network security, multimedia networking and network management. Emphasizes the internet for studying network fundamentals and includes the use of tools to analyze network operations.

CNT 4014C IT Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2830
Introduction to principles behind design, installation, and support of organization's LAN, WAN, network segment, intranet, or Internet, including maintenance of network hardware and software, and monitoring of network to ensure availability to system users. Topics include gathering of data to determine customer needs, identification, interpretation, and evaluation of system and network requirements and technical-management issues.

CNT 4403 Computer and Network Security
3 sh (may not be repeated for credit)
Prerequisite: COP 4610C OR COP 4634C
Introduction to the concepts of computer and network security using currently available technology. Security analysis, physical threats, virus protection, system recovery, and encryption. Credit may not be received in both CNT 4403 and CEN 4540.

CNT 4416 Cyber War Gaming
3 sh (may not be repeated for credit)
Prerequisite: CDA 3101 AND CIS 4385 AND CNT 4403
Every organization, whether part of the government or the private sector, needs "battle-tested" IT personnel in order to defend its networks against attack. The most effective way to provide this experience is to recreate the exact scenarios, no matter how nefarious, they will see in the real world. This course provides exercises that use different specialties (network, security, visualization, software, etc.) into color-coded red and blue teams that perform specific roles in attacking and defending IT infrastructures. Prerequisites: CNT 4403, CIS 4385 and CDA 3101 (minimum grade C-).

CNT 6107 Advanced Computer Networks
3 sh (may not be repeated for credit)
Topics to be addressed include Local Area Networks (LANS), review of LANS Protocols, TCP/IP Suite and Data Networks. Overview of probability and stochastic processes, queuing analysis and self-similar traffic, high speed LANS, link-level flow and error control, routing and switching. Wireless and mobile communications, network security and gigabit ethernet. Credit may not be received in both CNT 6107 and CEN 6520.

COMPUTER PROGRAMMING Courses

COP 2253 Programming Using Java
3 sh (may not be repeated for credit)
Introduction to algorithms and object-oriented programming. Topics include object-oriented design and modeling, UML, encapsulation, inheritance, data types, GUI, control constructs, looping constructs, parameter passing, and arrays. Emphasizes developing fundamental programming skills and software engineering principles in the context of an object-oriented language.

COP 2334 Programming Using C++
3 sh (may not be repeated for credit)
Introduction to computers and algorithms. Programming in a high level language. Topics include structured programming techniques, procedural and data abstraction. Students will learn the fundamentals of developing coherent, expressive programs.

COP 2830 Script Programming
3 sh (may not be repeated for credit)
Introduction to the essential skills of programming with scripting. Topics include use and manipulation of variable, design and validation of forms, and writing scripts for systems calls and command line arguments.

COP 3014 Algorithm and Program Design
3 sh (may not be repeated for credit)
An introduction to designing solutions to scientific problems. Emphasis on the use of basic programming constructs to create correct, efficient algorithms. Secondary focus on implementation of the algorithms using current procedural language. This course will include several laboratory projects.
COP 3022 Intermediate Computer Programming
3 sh (may not be repeated for credit)
Prerequisite: (MAC 2311 OR MAC 2233) AND COP 2253
An intermediate course in object-oriented programming. Topics include object oriented modeling, algorithms, inheritance, polymorphism, input/output, exception will be on issues of object-oriented design and good programming practices. Students entering this course are expected to have a solid knowledge of programming in the object-oriented paradigm. A supervised laboratory experience will be included in the intermediate computer programming course. Emphasis will be on developing skills in program design as a necessary prerequisite to effective implementation. The lab time will provide an active learning experiences in design and coding.

COP 3530 Data Structures and Algorithms I
3 sh (may not be repeated for credit)
Prerequisite: COP 3014
A first course in Data Structures and Algorithms. Topics will include traditional data structures with a major focus on design and analysis of algorithms and will include projects that stress mathematics and science.

COP 3685 iPhone/iPad Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2334
Concepts and skills related to programming mobile devices, with specific emphasis on iOS devices -- the iPad, iPhone, and iPod Touch.

COP 3813 Internet Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 2304 OR COP 2253 OR COP 2830
An overview for design and implementation of various elements of programming for the Internet. Instruction in html, xml, and popular scripting languages to create sophisticated web applications that rest on the client/server architecture, culminating in Web services. The use of aesthetic elements such as CSS style sheets and quality graphics and audio files for Internet applications will be explored.

COP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COP 4020 Programming Languages
3 sh (may not be repeated for credit)
Prerequisite: COP 4311 AND COP 4534
Programming language theory and practice, including language design and implementation, theoretical foundations, language translation, and exposure to a variety of programming paradigms.

COP 4027 Advanced Computer Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 3022
The third course in the introductory programming sequence. Addresses advanced topics including multi-threaded programs, the basics of data structures, generic programming, basic client-server programming, XML and web-based applications. Emphasis will be developing skills in program design as necessary prerequisite to effective implementation.

COP 4173 Advanced Visual Basic Programming
3 sh (may not be repeated for credit)
Covers advanced concepts of visual programming. Students should have prior knowledge of Visual BASIC, Windows, Access / Oracle and e-mail. In addition, students should have knowledge of data structures such as arrays, records and files. Topics covered include, but are not limited to: Windows API and DLL functions, the application of VB with databases, and the creation and implementation of Active X. Senior standing is required.

COP 4311 Object Oriented Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 3530
Exploration of the fundamental ideas behind object-oriented programming, including encapsulation, inheritance, and polymorphism. Applications will focus on extracting objects from a problem domain, designing problem solutions based on message-passing between objects, and documenting object-oriented design. Implementations will be done in a current object-oriented language.

COP 4365C Advanced Topics in C# Programming
3 sh (may not be repeated for credit)
Prerequisite: (COP 2253 OR COP 2334) AND COP 4710
This course covers advanced concepts and applications of C# programming. Topics covered will include: event-driven programming, user interfaces, inheritance, exception handling and input/output, data structures, threads and animation, networking, interfacing with databases, ASP.NET. Prerequisites: (COP 2253 or COP 2334) and COP 4710 (minimum grade C-).

COP 4534 Data Structures and Algorithms II
3 sh (may not be repeated for credit)
Prerequisite: COP 3530
A second course in Data Structures and Algorithms. Topics include mathematical properties of algorithms (complexity, correctness), heaps, height-balanced trees, graphs, greedy algorithms, dynamic programming, and proof techniques pertaining to computational complexity. Emphasis on issues of correctness and efficiency. Students entering this course are expected to have a solid knowledge of programming.

COP 4610 Theory and Fundamentals of Operating Systems
3 sh (may not be repeated for credit)
Prerequisite: COP 2253
A functional systematic examination of the key components and theories of a modern operating system, including process, thread management, synchronization, I/O, and memory management. Emphasizes using several modern operating systems and writing programming scripts to manipulate these operating systems.

COP 4634 Systems & Networks I
3 sh (may not be repeated for credit)
Prerequisite: (CDA 3101 OR EEL 3701) AND COP 3530
This course reviews fundamental principles of modern operating systems and relates them to computer programming. Students learn about the design of various components of operating systems and the services they provide to end users and application developers. The role of security in operating systems is covered.
COP 4635 Systems & Networks II
3 sh (may not be repeated for credit)
Prerequisite: COP 4534 AND COP 4634 AND STA 4321
This course is a continuation of topics discussed in System & Networks I, focusing on fundamental principles of modern computer networks and network programming. The course will study the structure of networks, networking devices, network protocol stacks, congestion and flow control analysis and algorithms, network routing algorithms and protocols, and network traffic analysis. The course also covers client/server and peer-to-peer network programming and the role of security in networks.

COP 4653 Embedded/Wireless Systems
3 sh (may not be repeated for credit)
Prerequisite: (COP 4534 OR COP 4027) AND CEN 3032
Review of concepts and principles related to the development and evolution of embedded and wireless software systems.

COP 4710 Database Systems
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 2830
Introduction to database systems and database management system architectures. Various database models are discussed with an emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL, are included. Offered concurrently with COP 5725; graduate students will be assigned additional work.

COP 4723 Database Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 4710
Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemes, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance. Offered concurrently with COP 5775; graduate students will be assigned additional work.

COP 4856 Distributed Software Architecture I
3 sh (may not be repeated for credit)
Prerequisite: (COP 3022 OR COP 4331) AND COP 4710
A first course in software aspects of distributed architecture, with emphasis on database integration and interoperability of distributed components.

COP 4857 Distributed Software Architecture II
3 sh (may not be repeated for credit)
Prerequisite: COP 4856
Continuation of Distributed Software Architecture I that emphasizes large-scale, distributed, enterprise-level systems. Includes comparative analysis of alternative software architectures, technologies, and their relationships to standards. Incorporates conceptualization, design, implementation, and testing of representative functionality for a distributed, multi-platform enterprise system.

COP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COP 5007 Software Engineering Foundations: Java Programming
3 sh (may not be repeated for credit)
A course in the Accelerated Software Engineering Foundations Series in which students will gain a comprehensive understanding of principles/concepts of Java programming and how to apply those principles/concepts in conjunction with principles of software engineering to design and develop object-oriented software systems. Students taking this course should have an understanding of programming language fundamentals including variables, constants, selection, iteration, arrays, and functions or methods.

COP 5725 Database Systems
3 sh (may not be repeated for credit)
Introduction to database systems and database management system architectures. Various database models are discussed with emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL are included. Offered concurrently with COP 4710; graduate students will be assigned additional work. Students cannot receive credit for both COP 5725 and COP 4710.

COP 5775 Database Administration
3 sh (may not be repeated for credit)
Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemas, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance. Offered concurrently with COP 4723; graduate students will be assigned additional work. Students cannot receive credit for both COP 4723 and COP 5775.

COP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COP 6025 Advanced Programming Languages
4 sh (may not be repeated for credit)
Theory and practice of programming language design. Topics include: advanced language constructs, an overview of parallel programming, formal specification of programming languages, the analysis/synthesis model of program translation, code optimization, and compiler construction tools. Students will design and implement a small programming language.

COP 6727 Advanced Database Systems
3 sh (may not be repeated for credit)
Advanced topics in database management systems will be covered, for example, further dependencies and higher normal forms, transaction processing, concurrency control, backup and recovery, indexing, replication, managing large databases, and contemporary issues and topics in databases.

COP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
COMPUTER SCIENCE Courses

COT 3100 Discrete Structures
3 sh (may not be repeated for credit)
Prerequisite: (COP 2253 OR COP 2334 OR COP 3014) AND (MAC 2233 OR MAC 2311)
Foundations of Discrete Math with applications to modeling, programming and data structures. Propositional and predicate logic, sets, functions, sequences, summations, algorithms, analysis of algorithms, combinatorics, graphs. Emphasis is on developing programming skills. Can also be taken by CIS majors. Prerequisites: (COP 2253 or COP 2334 or COP 3014) and (MAC 2233 or MAC 2311) minimum grade of C-.

COT 3701C Game Design
3 sh (may not be repeated for credit)
Introduction to basic principles of Game Design including history of game types, game interfaces, structure of games, importance of story line, dramatic elements, character development, conceptualizing a game, prototyping, play testing, fun and accessibility and game development life cycle.

COT 4420 Theory of Computation
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202 OR COP 3530C
Theoretical foundations of computer science. Classification of formal languages, grammars and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Insolvability of the halting problem. Offered concurrently with COT 5206; graduate students will be assigned additional work. Credit cannot be received in both COT 4420 and COT 5206.

COT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COT 5205 Theory of Computation
3 sh (may not be repeated for credit)
Theoretical foundations of computer science. Classification of formal languages, grammars and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Insolvability of the halting problem. Dual-listed with COT 4420; graduate students will be assigned additional work. Students cannot receive credit for COT 5205 and COT 4420.

COT 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COT 5931 Computer Science Project
3 sh (may be repeated for up to 6 sh of credit)
Capstone course for Masters students who do not elect the thesis option. Normally taken for 3 credits in each of two consecutive semesters. Students will define and carry out a project that shows mastery of some topic in computing and produces some concrete product such as a report or a computer program. Students should not enroll until they have completed at least 12 semester hours of their graduate coursework. Permission is required.

COMPUTER TECH SKILLS Courses

CTS 3159 End User Support
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 2830
An applied course pertaining to the usual activities that are involved in supporting end users of computers. Addresses the technical capabilities a support specialist needs and the "soft skills" necessary when dealing with clients. Topics include computer facility management, customer service skills, user needs analysis, installing and troubleshooting computer systems, help desk organization, product evaluation, and user training.

CTS 4348 Linux System Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 4610
This course focuses on the installation, configuration, and maintenance of modern, open-source operating systems in individual and corporate environments including computer networks that host a variety of servers and workstations. Through hands-on experience, students will learn how a Linux operating system works and how it can be put to use to serve computing needs. Students will also learn how to configure network environments to test the networking capabilities of the operating system.

CTS 4817 Web Server Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2830
An overview of essential skills in web server administration. Topics include installation and configuration of client web servers, user creation and login authentication, configuration of applications, security, management of user permissions.

CTS 5349 Linux System Administration
3 sh (may not be repeated for credit)
Installation, configuration, and maintenance of a modern open-source operating system in individual and corporate environments. Topics include installation planning and implementation; disk partitions; single and dual booting; software configuration; client / server systems; users and groups; maintenance; security; and troubleshooting. Offered concurrently with CTS 4348; graduate students will be assigned additional work.
CORRECTIONS Courses

CJC 4010 Punishment and Society
3 sh (may not be repeated for credit)
Basic analysis of correctional systems in the United States. Focus is on widely held conceptions of punishment, physical design and organizational structures of prison facilities, community based correctional options, the death penalty and the evaluation of correctional research. Other topics of interest include sentencing policy, key issues faced by prison administrators and prisoners as well as the role of the victim in corrections.

CJC 4167 Alternative Punishments
3 sh (may not be repeated for credit)
Introduces the student to the subject of alternative punishments including social, political, and economic conditions that have contributed to the development of alternative punishments. Identifies the types of alternative punishments and the effectiveness of such options. The needs of special offender populations for corrections alternatives are also explored.

CJC 6021 Penology
3 sh (may not be repeated for credit)
Classical and contemporary readings in corrections. Uses historical and philosophical contexts to critically assess contemporary correctional issues and introduces students to the importance of data-driven policy promoting critical evaluation and debate.

CREATIVE WRITING Courses

CRW 2001 Introduction to Creative Writing
3 sh (may not be repeated for credit)
Overview and introduction to three genres of creative writing: poetry, fiction, and creative nonfiction. Will be taught as part lecture/discussion and part writing workshop. Credit cannot be received in both CRW 2001 and CRW 2000.

CRW 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CRW 3110 Fiction Writing
3 sh (may not be repeated for credit)
Workshop in narrative fiction. Practice in developing plot and character and establishing point of view. Emphasis on writing for publication in specific markets.

CRW 3310 Poetry Writing
3 sh (may not be repeated for credit)
Workshop in writing poetry. Practice in traditional forms and extensive work in contemporary free verse.

CRW 3424 Playwriting
3 sh (may not be repeated for credit)
Playwriting is devoted to the analysis and creation of literary drama. Introduces the student to the dramatic elements of plot, scene, character development and motivation, and dramatic action through the study of established playwrights and plays. Students will also submit their own original creative work for discussion and analysis by the professor and class.

CRW 4211 Creative Non-Fiction
3 sh (may not be repeated for credit)
Writing workshop in which students explore the personal essay through the process of reading and writing about autobiography, travel, science, politics, and art.

CRW 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CRW 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CRW 6130 Workshop in Fiction Writing
3 sh (may not be repeated for credit)
Writing, editing, and evaluating fiction. Students will be expected to write original publishable fiction and critique writing produced in class. Permission is required.

CRW 6236 Workshop in Creative Non-Fiction Writing
3 sh (may not be repeated for credit)
Writing, editing, and evaluating original pieces of creative non-fiction. Permission is required.

CRW 6331 Workshop in Poetry Writing
3 sh (may not be repeated for credit)
Writing, editing, and evaluating poetry. Students will be expected to familiarize themselves with both traditional forms and free verse. Permission is required.

CRW 6806 Workshop in Teaching Creative Writing
3 sh (may not be repeated for credit)
The teaching of workshop methods used in poetry, fiction, and creative non-fiction writing classes. Emphasis on writing standards, resources, evaluation methods, publishing, and course planning. Permission is required.

CRW 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CRW 6934 Special Topics in Creative Writing
3 sh (may be repeated for up to 12 sh of credit)
A writing workshop with a central theme such as autobiography, nature writing, the persuasive essay, biography, or studies of place. Topics change each term. See department or instructor for specific topic.

CRIMIN CRIMINAL JUSTICE Courses

CCJ 2002 Survey of Crime and Justice
3 sh (may not be repeated for credit)
Provides an introduction to the issues of crime and justice in the United States. Discusses the complexities of studying crime and evaluates the role of various criminal justice subsystems. (General Studies Course: SS / BEH).

CCJ 3014 Criminology
3 sh (may not be repeated for credit)
Examines the causes, types, and patterns of crime in society. Major schools of thought and current research are introduced, compared, and contrasted in the study of crime and its social context.
CCJ 3024 American Justice System
3 sh (may not be repeated for credit)
Introductory analysis of the American justice system. Structure, organization and process of the justice system, the roles and responsibilities of justice professionals, and the dynamics of the justice system in a democratic society.

CCJ 3060 Ethics and the Justice System
3 sh (may not be repeated for credit)
Identification and analysis of ethical issues in the American justice system.

CCJ 3450 Criminal Justice Management and Organization
3 sh (may not be repeated for credit)
Acquaints student with the basic management processes affecting criminal justice agencies, develops the student's ability to analyze management problems and apply effective interventions to those problems in police departments, courts, and corrections agencies.

CCJ 3553 Family Crime and Violence
3 sh (may not be repeated for credit)
Survey of major issues related to family relationships and criminal activity, including theoretical explanations for family violence, patterns of family violence in the United States, and how family relationships during childhood can affect long-term behavior. This course will help to elucidate some of the most important elements of the connection between family relationships and crime.

CCJ 3654 Drugs, Crime, and Criminal Justice
3 sh (may not be repeated for credit)
Explores the interactions between drugs, crime, and society. Relevant history, theory, and research related to drug use, prevention, rehabilitation, and the drug-crime link will be explored critically. Additionally, this course will examine the pharmacology of drugs and the prevalence of usage. As such, this course aims to provide a foundation for a better understanding the relationship between drugs, crime, and the criminal justice system.

CCJ 3666 Victimology
3 sh (may not be repeated for credit)
The study of the interrelationships between crime, criminals, victims, and the criminal justice system. Areas of emphasis include victim's rights, restorative justice, as well as the psychological, financial, and medical needs and problems of the victim.

CCJ 3678 Race, Gender, Ethnicity, and Crime
3 sh (may not be repeated for credit)
Analysis of the demographic state of affairs in criminal justice in the United States. Designed to elicit discussion regarding the interrelationships between race, gender, ethnicity, and the criminal justice system. Meet Multicultural Requirement.

CCJ 3691 Sex Offenses and the Offender
3 sh (may not be repeated for credit)
Comprehensive overview of psychological, sociological and legal issues related to sex offenses. Additionally, the sexual offenders and different typologies of the sex offender will be discussed.

CCJ 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CCJ 4026 Contemporary Issues in Criminal Justice
3 sh (may not be repeated for credit)
Examines the nature and extent of crime in modern Western society. Emphasis placed on issues selected from, but not limited to, emerging patterns of violence, organized crime, white-collar crime, victimless crime, corruption, and those crime strategies deemed appropriate in a democracy.

CCJ 4141 Restorative Justice
3 sh (may not be repeated for credit)
Introduces the philosophy of restorative justice. Students critically analyze and compare retributive justice with restorative justice. Explores various restorative justice methodologies and evaluation of those methodologies. Hands on instruction in the use of restorative practices will be given.

CCJ 4644 White Collar Crime
3 sh (may not be repeated for credit)
Considers the question “what is white-collar crime?” and the implications associated with enforcement of laws related to white-collar criminality, investigation and prosecution of such offenses and sentencing of white-collar offenders. Various forms of white-collar crime will be examined and illustrated through case studies and research, including estimates of cost, victim and offender profiles, and legal issues. Examines theoretical explanations for white-collar crime and questions of corporate liability.

CCJ 4700 Research Design in Criminal Justice
3 sh (may not be repeated for credit)
Designed to give students an understanding of the basic principles and practices of empirical research as they are practiced in criminal justice and to enhance students' critical thinking skills with respect to criminal justice programs and proposals. (Gordon Rule Course: Wrtg).

CCJ 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CCJ 4931 Special Topics in Criminal Justice
3 sh (may be repeated for up to 12 sh of credit)
The study of special issues in criminal justice. Subject matter will vary each semester to reflect an in-depth study of particular issues (e.g. gangs) or fields of criminology (e.g. corrections and theories of punishment) being examined. This includes grounding course content in criminological theory, as well as related theoretical frameworks.

CCJ 4939 Criminal Justice Seminar
3 sh (may not be repeated for credit)
Prerequisite: (CCJ 3014 AND CCJ 3024 AND CCJ 4700) OR CJC 4010 OR CJE 4110 OR CJL 3510
This capstone class is a comprehensive and critical review of the criminal justice curriculum with a focus on contemporary issues. This seminar will help students explore and prepare for a career in criminal justice and/or graduate education. Students are provided the opportunity to explore current criminal justice issues and criminal justice careers through an integration of knowledge gained in the criminal justice curriculum. Students will demonstrate oral and written communication skills.
CCJ 4940 Criminal Justice Internship
1-6 sh (may be repeated for up to 9 sh of credit)
Prerequisite: CCJ 3014 AND CCJ 3024 AND CCJ 4700 AND (CJC 4010 OR CJE 4110 OR CJL 3510)
Internship in field of criminal justice intended to give field observation and experience. This internship is a cooperative effort between the criminal justice program at the University of West Florida and public or private community agencies. The purpose of the internship is to give students the opportunity to apply their education to actual work situations. The student works under the supervision of an agency professional. A 3 credit hour internship may be used to satisfy the capstone experience in the criminal justice core requirements.

CCJ 5006 Criminal Justice Administration
3 sh (may not be repeated for credit)
Focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. Includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

CCJ 5008 Criminal Justice Theory
3 sh (may not be repeated for credit)
Analyzes the theoretical perspectives associated with the policies, organizations, decisions, and operations of criminal justice systems, agencies, and individuals. Examines classical and contemporary research in criminal justice.

CCJ 5018 Crime and Public Policy
3 sh (may not be repeated for credit)
Analysis of various policy initiatives designed to reduce the level of crime. Applies elements of criminological theory and research methods to critically evaluate the effectiveness of policies.

CCJ 5669 Race, Ethnicity, Gender, and Criminal Justice
3 sh (may not be repeated for credit)
Dissects the pervasive links between crime, justice, race, ethnicity, and gender. Analyzes the challenges posed by rendering justice in a multicultural society.

CCJ 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Under the direction of the faculty, the student prepares a comprehensive analysis of a topic within criminal justice. The paper will include a critical and comprehensive review of the literature related to the chosen topic. The paper may include a research proposal and/or presentation of research findings.

CCJ 6010 Criminal Justice Area Paper
3 sh (may not be repeated for credit)
Under the direction of the faculty, the student prepares a comprehensive analysis of a topic within criminal justice. The paper will include a critical and comprehensive review of the literature related to the chosen topic. The paper may include a research proposal and/or presentation of research findings.

CCJ 6145 Restorative Justice
3 sh (may not be repeated for credit)
Examines the principles of restorative justice from a critical perspective. A restorative justice approach is utilized to gain insight into contemporary criminal justice practice and policies.

CCJ 6427 Issues in Contemporary Criminal Justice
3 sh (may not be repeated for credit)
An in-depth study of issues confronting 21st Century criminal justice systems. Topics include those associated with current events and controversies.

CCJ 6704 Research Methodology
3 sh (may not be repeated for credit)
Issues related to research methods and data analysis as they are applied in the field of criminal justice and criminology. What constitutes scientifically acceptable inquiry and how to conduct empirical research.

CCJ 6705 Analysis of Quantitative and Qualitative Data
3 sh (may not be repeated for credit)
Prerequisite: CCJ 6704
Methods and techniques for diagnostics, management, and analysis of data in both quantitative and qualitative nature. Statistical theory and research design issues along with hands-on computer experience using computerized statistical programs such as SPSS.

CCJ 6745 Policing and Society
3 sh (may not be repeated for credit)
Analysis of classical and contemporary readings that examine the unique position, organization, and challenges of policing a complex society. Also explores the future of policing.

CCJ 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Under the direction of the faculty, the student prepares a comprehensive analysis of a topic within criminal justice. The paper will include a critical and comprehensive review of the literature related to the chosen topic. The paper may include a research proposal and/or presentation of research findings.

CCJ 6930 Seminar: Special Topics in Criminal Justice
3 sh (may not be repeated for credit)
Prerequisite: CCJ 6704
Designed to provide students with specialized knowledge in a particular field of criminal justice such as juvenile justice/ corrections or on a cutting edge topic of relevance to criminal justice practitioners such as restorative justice or homeland security.

DANCE Courses

DAN 3744 Dance Fitness
3 sh (may not be repeated for credit)
Combines basic fitness and movement principles applied to movements in jazz dance and low-impact elements of ballet. Progressive daily knowledge and skills for dance learning and performance. Also provides the opportunity for students to enhance health and fitness through the medium of dance.
DANCE: EMPHIS ON ACTIVITY Courses

DAA 1300 Ballroom Dance
3 sh (may not be repeated for credit)
This course is designed to teach beginner level ballroom dancing steps in the Foxtrot, Waltz, Jitterbug, Cha Cha, Tango, Merengue, Mambo, and the Charleston. In addition, the fitness benefits of social dance, the application of fitness to dance, and a brief history of each dance will be presented.

DAA 2000 Dance Fundamentals
3 sh (may not be repeated for credit)
Dance foundation course for Music Theatre performance. Course focus is on the proper technique needed for dance in the theatre and will cover dance kinesiology, proper warm-up, and foundations of ballet and jazz dance.

DAA 2500 Jazz Dance I
3 sh (may not be repeated for credit)
Instruction and practice in beginning jazz technique comprising of several different jazz styles, basic dance terminology, dance history, and current status of jazz dance in society. Emphasis includes dance as a physical activity as well as an art form.

DAA 2750 Ballet Conditioning and Fitness I
3 sh (may not be repeated for credit)
A beginning level ballet technique class that focuses on building fitness through the medium of dance. Teaches the fundamentals of classical ballet, and is designed to strengthen and develop technique at a beginning level through barre and centre practice. Emphasis is on correct body placement and alignment, strength and flexibility, vocabulary, musicality and movement quality. Designed for non-dancers, dancers, and athletes.

DAA 2751 Modern Dance for Conditioning
3 sh (may not be repeated for credit)
Introduces the student to the principles of modern dance techniques. Emphasis is on correct placement and body alignment, strength and flexibility, movement vocabulary, rhythmic and creative skills.

DAA 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

DAA 3004 Dance Styles I
1 sh (may be repeated for up to 2 sh of credit)
Dance styles for the music theatre student in the area of ballet and classical forms of dance.

DAA 3005 Dance Styles II
1 sh (may be repeated for up to 2 sh of credit)
Dance styles for the music theatre student in the area of modern dance, jazz, and tap.

DAA 3006 Dance Styles III
1 sh (may be repeated for up to 2 sh of credit)
Dance styles for the music theatre student in the area of non-western dance.

DAA 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

DAA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

DEVELOPMENT PSYCHOLOGY Courses

DEP 2004 Human Development Across the Lifespan
3 sh (may not be repeated for credit)
Survey of major themes and recent findings in the area of human development across the life span. Emphasis will be on the major transitions from fetal development through death in the physical, cognitive, social, and emotional domains. The impact of ethnic, gender, and cultural factors on development will be examined. (General Studies Course: SS / BEH).

DEP 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

DEP 3103 Child Development
3 sh (may not be repeated for credit)
Development and behavior of children from infancy to adolescence from two viewpoints: age periods (prenatal, infancy, preschool, school) and areas (physical, intellectual, personality, etc.).

DEP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

DEP 4305 Psychology of Adolescence
3 sh (may not be repeated for credit)
Social, emotional, biological, and intellectual elements of adolescence. Addresses the transitions from childhood to adolescence and from adolescence to adulthood. Application of theories is stressed. Option for partial credit via field experiences.

DEP 4404 Adulthood and Aging
3 sh (may not be repeated for credit)
Physiological, psychological, sociological and economic aspects for young, middle and old adulthood presented within a multidisciplinary perspective. Lifespan objectives are emphasized, including development as a life-long process, with multiple determinants of change, and correspondingly, multiple alternatives for change. Successful aging is also emphasized. Credit may not be received for DEP 4404 and either DEP 4402 or DEP 4401.

DEP 4798L Laboratory in Child and Adolescent Development
1 sh (may not be repeated for credit)
Prerequisite: DEP 4305 AND DEP 3103
Co-requisite: DEP 3103
Students will apply knowledge acquired in the Child Development and/or Psychology of Adolescence courses to develop research strategies that take into consideration the unique challenges in conducting research with children and adolescents. Use of archived data for exercises with opportunities to develop observation and analysis skills.

DEP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

DEP 5055 Developmental Psychology
3 sh (may not be repeated for credit)
Representative theories of development; methodological issues in developmental research; study of research knowledge in selected areas of developmental psychology. One undergraduate or graduate course in the area of developmental is required.

DEP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
DOMESTIC SECURITY Courses

DSC 3012 Terrorism
3 sh (may not be repeated for credit)
Introduction to terrorism, which examines the history and evolution of terrorism in both international and domestic arenas. Topics will include the causes, motives, means, and organization of terrorism and terrorist groups. Finally, the course will explore governmental and law enforcement responses and programs aimed at terrorism and threats.

DSC 4013 Homeland Security
3 sh (may not be repeated for credit)
Concepts of homeland security in theory and practice; the history and development of the U.S. Department of Homeland Security and its components; terrorism and other threats to U.S. National Security and the issues associated with achieving national security in a free society. The course will also examine the components of Critical Infrastructure, Emergency Management and Preparedness, and Policing, related to the practical application of homeland security initiatives.

DSC 5020 Terrorism and Homeland Security
3 sh (may not be repeated for credit)
Analysis of homeland safety and security in contemporary society and government. This course focuses on the domestic and international threats of terrorism and the basic security issues that surround terrorism today. Critically examines phenomena of domestic and international terrorism to give students a solid grounding of salient issues in developing crime control strategies to prevent terrorism and mount appropriate responses to incidents. Offered only in the Fall Semester.

DSC 5753 Policy, Law, and Homeland Security
3 sh (may not be repeated for credit)
Introduces participants to the major debates about balancing democratic freedoms with security - from the patriot act to supreme court decisions on detention powers. Examines legal strategies necessary to confront ongoing national security threats and laws designed to preserve both security and fundamental democratic liberties.

DSC 6026 Issues in Homeland Security
3 sh (may not be repeated for credit)
This course focuses on topical issues associated with homeland security and terrorism. Topics include the use of intelligence and technology for homeland security and to combat terrorism, the importance of a critical infrastructure for homeland security, emergency management, preparedness, and response and recovery. Describes and critiques current resources and initiatives related to homeland security and terrorism. Offered only in the Fall Semester.

ECON SYSTEMS DEVELOPMENT Courses

ECS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ECONOMIC PROBLEMS POLICY Courses

ECP 3301 Principles of Environmental Economics
3 sh (may not be repeated for credit)
A first course in economics that provides students with the fundamentals of microeconomics and macroeconomics with a structured focus on environmental and natural resource issues. The principles of economics are developed using examples and cases that are directed at environmental policy issues and natural resource decision making. Available to non-business majors only. Offered Fall Semester only.

ECP 4302 Environmental Economics and Policy
3 sh (may not be repeated for credit)
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003
Involves the student in the study of a broad range of environmental problems and the appropriate analysis of policy responses. Specific environmental issues include declining urban air quality, global warming, the effect of development on water systems and contamination from waste disposal systems. Traditional environmental regulations and policies are analyzed and contrasted with current, cutting-edge policies aimed at improving the environment.

ECP 4312 Terrorism
3 sh (may not be repeated for credit)
Prerequisite: ECP 4314

ECP 4413 Industrial Economics
3 sh (may not be repeated for credit)
Prerequisite: ECO 2023
Covers economic aspects of the behavior of firms in the United States including degree of concentration, price discrimination, competitive practices, strategic behavior, and regulated industries. The material covered will help students to understand how firms can continue to maintain high profits, how competition might lead to concentration, and how the government serves as a regulator in the economy. Credit may not be received in both ECP 4413 and ECP 4403.
ECP 4613 Urban and Regional Economic Development  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  
Contemporary urban and regional issues such as crowding,  
congestion, pollution and crime have long been the subject of political,  
moral and social debate. In order to understand and work towards  
solutions to these problems a command of economic theory and its  
relevant applications is essential. Takes simple economic principles  
and applies them to these pressing social issues including those  
found in the Gulf Coast area of Northwest Florida. In each case,  
various alternative solutions are discussed in the context of scarcity of  
resources, a fundamental principle of economics.

ECP 4703 Managerial Economics  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  
Develops tools of economic analysis in operating a business firm,  
including applied microeconomic tools designed to aid decision makers  
in pricing, reducing firm costs and identifying areas for firm expansion.

ECP 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

ECP 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

ECP 6705 Advanced Managerial Economics  
3 sh (may not be repeated for credit)  
Concepts of competition as they relate to business management  
policies and practices; profit goals and measurement problems;  
multiple product policy; demand analysis; cost concepts; pricing  
problems; case studies. Contains a portfolio project.

ECP 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**ECONOMICS Courses**

ECO 2013 Principles of Economics Macro  
3 sh (may not be repeated for credit)  
Introduction to economics with emphasis on the study of aggregate  
economic activity, national income, price level determination, and  
economic growth and development. (General Studies Course: SS /  
SOC).

ECO 2023 Principles of Economics Micro  
3 sh (may not be repeated for credit)  
Introduction to economics with an emphasis on the determination of  
prices in the market economy and their role in allocating commodities  
and economic resources to various users. Study of market structure  
and efficiency. This course is recommended to be taken after ECO  
2013.

ECO 3003 Principles of Economic Theory and Public Policy  
3 sh (may not be repeated for credit)  
Survey and analysis of contemporary economic theory and public  
policy. Available to non-business majors only.

ECO 3101 Intermediate Microeconomics  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  
Economic activity of individual economic units as consumers, resource  
owners and business firms. Analysis of consumer motivation as the  
basis of demand theory. Study of how business firms determine what  
to produce, how to produce at least cost, how to maximize profits, and  
how to distribute products. Monopoly, oligopoly, imperfect competition,  
and the different market conditions for resources are studied to present  
how the optimum use of each resource is determined by the firm.

ECO 3203 Intermediate Macroeconomics  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  
National income accounts. Aggregate supply and demand functions.  
Savings and consumption functions. The multiplier, the accelerator,  
marginal efficiency of capital, and determinants of interest rate.  
Problems of growth and full employment.

ECO 3223 Money and Banking  
3 sh (may not be repeated for credit)  
Prerequisite: ECO 2013 AND ECO 2023  
Monetary and financial systems of the United States; organization  
and function of financial institutions including the Federal Reserve  
System; problems of money, prices, interest, credit, national income,  
and employment; international finance; recent monetary and financial  
trends.

ECO 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

ECO 4401 Introduction to Mathematical Economics  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2311  
Links basic mathematical tools with topics in economics. It provides  
illustrations of the use of those tools in analyzing practical problems  
faced by households and firms in making economic decisions.

ECO 4431 Business and Economic Forecasting  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023 AND STA 2023) OR ECO  
3003  
Provides the student with alternative forecasting techniques with  
applications to processes that occur in business and economics.  
Students will learn what are the typical forecasting problems in  
business and economics, what are the tools that can be used for  
forecasting purposes, how these tools are used in practice (the  
mechanics), and how they are applied to particular business and  
economic problems (the application). Concentrates on conditional  
forecasts using econometric methods and time series models including  
smoothing methods and Box-Jenkins ARIMA models.

ECO 4704 International Trade and Commercial Policy  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  
Reason for trade. Analysis of U.S. exports and imports. Commercial  
policy, foreign investments, and changing trends in world trade.  
Financing and management of business ventures overseas.

ECO 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)
ECO 4941 Economics Internship
1-6 sh (may not be repeated for credit)
Prerequisite: ECO 2013 AND ECO 2023
Supervised field practicum in economics related position. May include activities in one or more functional areas of economics (research, forecasting, business cycles, money & banking, labor, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major course(s) and permission is required.

EDF 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ECO 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDF 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**EDU: FOUND POLICY STUDY Courses**

EDF 1005 Introduction to Education
3 sh (may not be repeated for credit)
Consideration of career opportunities in the field of education, including clinical experiences in selected agencies / institutions.

EDF 2085 Teaching Diverse Populations
3 sh (may not be repeated for credit)
Provides students with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. Attention will be given to teaching all children about ethnicity in a pluralistic society. Field experiences and examination of educational materials will enhance the students’ understanding of multiculturalism. Meets Multicultural Requirement.

EDF 3234 Applied Foundations of Education
3 sh (may not be repeated for credit)
Principles of growth, development and learning in the context of teaching in the schools of today. Methods of formal and informal assessment, measurement and evaluation are addressed and the ability to analyze educational phenomena in America and other countries from interpretive, normative and critical perspectives is developed. May include observation/participation in educational settings.

EDF 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDF 5255 Classroom Management: Harry Wong's Approach
3 sh (may not be repeated for credit)
Provides students with the opportunity to gain knowledge and skills to practice classroom organization and structure to maximize student learning time. An end of course product will be a binder containing a personal classroom management plan.

EDF 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDF 6218 Psychological Foundations for Education: Learning and Instruction
3 sh (may not be repeated for credit)
Examines current theories of learning, behavior, cognitive development, and instruction and their practical application in educational practice. Beyond theories and their application will explore current issues in human development and learning. Develops knowledge and skills for determining an appropriate theoretical framework from which to investigate and solve education problems. Students complete a review of research in their area of emphasis to examine an issue in depth and apply their findings to educational practice. Recommended: Educational Statistics I.

EDF 6223 Positive Behavioral Change and System Support in Educational Settings
3 sh (may not be repeated for credit)
Positive behavioral support strategies, establishing system support for behavioral change, documenting behavioral change using single case design methodology in educational settings. Relation between behavior analysis, single case design, and best practices in education will be discussed.

EDF 6225 Foundations of Applied Behavior Analysis in Education
3 sh (may not be repeated for credit)
A basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts in the field of education. Includes a review of the national legislation that mandates the use of ABA in educational settings.

EDF 6226 Behavioral Assessments, Interventions, and Outcomes in Education
3 sh (may not be repeated for credit)
Behavioral assessment, selecting behavioral outcomes, selecting behavioral strategies, and ethical and professional standards issues relevant to the practice of behavior analysis in educational settings.

EDF 6404 Educational Statistics I
3 sh (may not be repeated for credit)
Designed as an entry level course in statistics and covers both descriptive and inferential statistical techniques to solve applied research problems. Emphasis is also placed on using statistical software packages and will cover the most widely used statistical procedures in education.

EDF 6442 Assessment for Educational Leaders
1 sh (may not be repeated for credit)
Lead organizations to apply and create sound classroom assessment and standardized testing strategies.

EDF 6460 Foundations of Measurement
3 sh (may not be repeated for credit)
Provides an understanding of the nature of instrument and test development and focuses on the information and skills needed to design, develop, analyze, and interpret tests and instruments; the use of testing or instrument results in planning, monitoring, and evaluating instruction or programs; and to evaluate student or program progress. Intended to provide a foundation in testing and instrument development skills for those who work in a variety of applied settings.
EDF 6464 Applied Program Evaluation
3 sh (may not be repeated for credit)
Provides an introduction to program evaluation design, development, and implementation. Students will become familiar with a wide range of evaluation strategies, as well as how to interpret, use and communicate formative and summative evaluation results. These skills will be practiced through an applied research focus on using qualitative and quantitative data collection and analysis strategies to develop organizational accountability systems.

EDF 6475 Qualitative Research I - Methods
3 sh (may not be repeated for credit)
Enables graduate students to comprehend and apply new research paradigms, strategies, and techniques to better understand social change and cultural settings. Qualitative research concepts, theories, and methods offer an empirical basis to explore nonnumeric data. Students will experience and practice a variety of qualitative applied research techniques designed to enhance learning.

EDF 6481 Educational Research
3 sh (may not be repeated for credit)
Develops skills for evaluating and for conducting applied research studies in an appropriate area of emphasis. Includes strategies of research appropriate for particular area of emphasis and methods appropriate for those strategies. Students are required to select a problem, perform a review of the research literature, plan a research study, and write a research proposal. Completion of EDF 6404 and EDF 6218 is recommended prior to taking this course.

EDF 6476 Survey Research
3 sh (may be repeated for up to 9 sh of credit)
Designed as an entry level course in survey research and includes design and selection of questionnaires and interviews as data collection instruments in both quantitative and qualitative research that inform these issues. Problems growing from these issues are considered.

EDF 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDF 6915 Action Research for Educational Leaders
3 sh (may not be repeated for credit)
Guides future educational leaders in the process of sound action research in order to support and sustain positive change to enhance student achievement in K12 schools.

EDF 6943 Supervised Experience in Single Case Design
1-3 sh (may be repeated for up to 9 sh of credit)
Supervised field experience of positive behavioral support implementation in educational or related settings evaluated using single case designs. Topics covered will include the ethics and philosophy of positive behavioral support. Graded on satisfactory/unsatisfactory basis only.

EDF 7191 Psychological Foundations for Education: Cognition, Curriculum, and Instruction
3 sh (may not be repeated for credit)
Explores the traditional and contemporary theories of cognition and merges them with educational practices. Examines the ways theories of cognition inform instructional theories and models and informs teaching and learning in specific content areas. Provides students with an opportunity to explore multiple perspectives of learning that enhance their ability to understand educational goals and processes. Completion of EDF 6218, EDF 6481, and EDF 7407 is recommended prior to taking this course.

EDF 7407 Educational Statistics II: General Linear Model
3 sh (may not be repeated for credit)
Designed as an intermediate course in statistics for students who work in applied settings. Emphasis is on the introduction of more complex topics such as regression and the various ANOVA models, and in developing knowledge and skill in the appropriate techniques and application of various statistical software packages. Permission is required.

EDF 7437 Measurement and Single Case Design
3 sh (may not be repeated for credit)
Measurement of behavioral data, data display, data interpretation, experimental evaluation of interventions, and ethical considerations of applied behavior analysis and research in educational settings. This course specifically addresses the function of Applied Behavior Analysis as applied to individuals with varying exceptionalities and particularly focuses on those diagnosed with Autism Spectrum Disorders. Continuous and accurate data collection, data interpretation, evaluation of intervention, and ethical considerations are crucial components to competent and responsible intervention for individuals on the Autism Spectrum.

EDF 7476 Survey Research
3 sh (may not be repeated for credit)
Designed as an entry level course in survey research and includes design and selection of questionnaires and interviews as data collection instruments in both quantitative and qualitative research that is conducted in applied settings. Permission is required.
EDF 7477 Qualitative Research II - Theory
3 sh (may not be repeated for credit)
Focuses on major perspectives in contemporary social theory so as to
attune students to the diverse connections between social theory and
qualitative research. Covers the intersecting perspectives of feminist,
postmodernist, social constructionist, multiculturalists, hermeneutic,
and other theorists. Through practice exercises it provides students
with opportunities to apply these perspectives to small samples of
qualitative data in preparation for Qualitative Research III - Analysis.
Finally in conjunction with Qualitative Research I and III this course
equips students to undertake qualitative inquiry in their dissertations
without needing further substantial preparation.

EDF 7478 Qualitative Research III - Analysis
3 sh (may not be repeated for credit)
Provides doctoral students advanced instruction to qualitative research
analysis. Students are expected to have developed an understanding
of their research skills in qualitative methodologies prior to enrollment.
Will assist students in applying their methodological skills to their
theoretical and philosophical orientations. Qualitative data analysis
software (QDAS) will be used as a tool to enhance the research
analysis process. Students are expected to work with their own
research data through applied practical applications.

EDF 7489 Advanced Research Methods
1-3 sh (may not be repeated for credit)
Identify a potential dissertation topic, analyze and synthesize research
on the topic, and produce a concept paper for the dissertation to be
presented to the dissertation committee. Study the application of
both qualitative and quantitative research methodologies towards
addressing a research problem. Apply concepts from educational
research in synthesizing current research articles for the development
of a research project. Gain expertise in educational research that
will facilitate student research agendas for action research, thesis
research, and dissertation research.

EDF 7573 Contemporary Curriculum Issues and Theories
3 sh (may not be repeated for credit)
Explores curriculum conceptions, contributions to curriculum decisions,
issues and dilemmas in curriculum development, proposals for the
organization of curriculum choices (both past and present), and
analysis of curricular reforms. Theoretical foundations underlying
curriculum considerations and implications of these for curriculum
decision-makers at all levels.

EDF 7638 Social Change and Reform
3 sh (may not be repeated for credit)
The dynamics of social and cultural change in democratic societies
with a special focus on social movements and collective behavior.
Practical methodologies in common use among activist and other
agents of social change. Provides participants with opportunities to
develop and apply some social-change skills. Permission is required.

EDF 7659 Innovative Curriculum and Pedagogical Approaches
3 sh (may not be repeated for credit)
Provides students with opportunities to review, discuss and implement
innovative curriculum and pedagogical strategies that connect school
and community learning environments.

EDF 7685 Educational Foundations: A Philosophical and Multicultural
Analysis
3 sh (may not be repeated for credit)
Aims to broaden and deepen students’ awareness of various
educational philosophies and their influences in everyday classroom
practice. Emphasis will be on the pluralism and diversity of educational
ideas, the practical implication of such ideas, development of critical
and analytical thinking and open mindedness. Completion of EDF 6602
is recommended prior to taking this course.

EDF 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDF 7944 Advanced Single Case Design in Applied Settings
3 sh (may not be repeated for credit)
Apply knowledge and skills of positive behavioral support and single
case design to an identified problem in an educational setting.
Evaluate programs of behavioral support and collaborative system
support using single case designs.

EDF 8289 Curriculum Design
3 sh (may not be repeated for credit)
Historical, sociological, psychological and philosophical foundations
of curriculum models, theory and design. Curriculum implementation,
construction and evaluation. The course incorporates study of recent
general developments in curriculum theory and construction, and
a critical review of current specific curriculum models, plans and
guidelines.

EDF 8406 Educational Statistics III: Multivariate Analyses
3 sh (may not be repeated for credit)
Provides the student with the necessary skills required to conduct
educational research at an advanced level. Emphasis is placed
on selecting the appropriate multivariate technique for a particular
purpose and given data set, and the interpretation of statistical output
generated from the major statistical packages. Permission is required.

EDF 8446 Instrument Development and Validation
3 sh (may not be repeated for credit)
Provides an understanding of the nature of measurement as well as
the underlying theory and methodology of reliability estimation and test
validation. Emphasis is on applied skills such as the conceptualization,
development, and validation of instruments for assessment, research,
and evaluation. Topics include the logical empirical, and statistical
models of measurement processes with emphasis on scaling, reliability
and validity. It will function as both a seminar and practicum within
which the student will acquire applicable skills in the process of
providing evidence of instrument reliability and validity. Permission is
required.

EDF 8486 Advanced Quantitative Research and Statistics
3 sh (may be repeated for up to 9 sh of credit)
Student will develop advanced skills required to conduct educational
research and analyze results. Emphasis is placed on aligning research
methodology with appropriate statistical techniques for a particular
purpose and set of research questions, and the interpretation of
statistical output.
EDF 8698 Censorship
3 sh (may not be repeated for credit)
An in-depth study of censored literature and its effects on the existing political economy, ideological beliefs, and cultural diversity including the effects of single purpose interest groups will be discussed. Readings are centered around novels which have been challenged throughout the United States.

EME 3406 Web Presence Deployment Strategies
Prerequisite: EME 3402
3 sh (may not be repeated for credit)
Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U.S. society will be examined. Permission is required.

EDF 3936 Advanced Qualitative Research and Strategies: Special Topics
3 sh (may be repeated for up to 9 sh of credit)
Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U.S. society will be examined. Permission is required.

EME 3402 Information Technology Implementation Case Studies
Prerequisite: CGS 2570 AND EME 2040
3 sh (may not be repeated for credit)
Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U.S. society will be examined. Permission is required.

EDU: TECHNOLOGY MEDIA Courses

EME 1660C Engineering Technology Applications in Aviation
1-2 sh (may be repeated for up to 6 sh of credit)
Learners will apply engineering technology concepts to successfully plan and execute aviation-related mission scenarios in a high-fidelity, fully immersive learning environment at the National Flight Academy in Pensacola, Florida.

EME 2040 Introduction to Educational Technology
3 sh (may not be repeated for credit)
Assists educators in developing skills and competencies which are essential to the integration of technology into the delivery of classroom instruction. Students will survey a wide variety of instructional technology materials and systems. They will also learn to use these tools in a classroom environment.

EME 2042 Introduction to Communications and Print Technologies
3 sh (may not be repeated for credit)
Communications and information professionals are required to design and develop print and multimedia-based products that promote effective teaching and learning. Students survey technology programs and systems that are commonly found in the communications and print professional environment as they explore how those products are used in professional environments that focus on teaching and learning.

EME 3002 Introduction to Intelligence
3 sh (may not be repeated for credit)
An examination of the five major intelligence disciplines: Human Intelligence, Signals Intelligence, Geospatial Intelligence, Open Source Intelligence, and Measurements and Signatures Intelligence. Topics related to information technology systems and information technology systems implementation will be explored.

EDF 8888 Seminar: Special Topics Related to Minority Groups
3 sh (may be repeated for up to 9 sh of credit)
Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U.S. society will be examined. Permission is required.

EDF 8936 Advanced Qualitative Research and Strategies: Special Topics
3 sh (may be repeated for up to 9 sh of credit)
Student will develop advanced skills required to conduct education research and analyze results. Emphasis is placed on aligning research methodology with appropriate data analysis strategies for a particular purpose and set of research questions.

EME 8980 Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student’s graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.

EDF 8980 Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student’s graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.

EDU: TECHNOLOGY MEDIA Courses

EME 1660C Engineering Technology Applications in Aviation
1-2 sh (may be repeated for up to 6 sh of credit)
Learners will apply engineering technology concepts to successfully plan and execute aviation-related mission scenarios in a high-fidelity, fully immersive learning environment at the National Flight Academy in Pensacola, Florida.

EME 2040 Introduction to Educational Technology
3 sh (may not be repeated for credit)
Assists educators in developing skills and competencies which are essential to the integration of technology into the delivery of classroom instruction. Students will survey a wide variety of instructional technology materials and systems. They will also learn to use these tools in a classroom environment.

EME 2042 Introduction to Communications and Print Technologies
3 sh (may not be repeated for credit)
Communications and information professionals are required to design and develop print and multimedia-based products that promote effective teaching and learning. Students survey technology programs and systems that are commonly found in the communications and print professional environment as they explore how those products are used in professional environments that focus on teaching and learning.

EME 3002 Introduction to Intelligence
3 sh (may not be repeated for credit)
An examination of the five major intelligence disciplines: Human Intelligence, Signals Intelligence, Geospatial Intelligence, Open Source Intelligence, and Measurements and Signatures Intelligence. Topics related to information technology systems and information technology systems implementation will be explored.

EDF 8888 Seminar: Special Topics Related to Minority Groups
3 sh (may be repeated for up to 9 sh of credit)
Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U.S. society will be examined. Permission is required.

EDF 8936 Advanced Qualitative Research and Strategies: Special Topics
3 sh (may be repeated for up to 9 sh of credit)
Student will develop advanced skills required to conduct education research and analyze results. Emphasis is placed on aligning research methodology with appropriate data analysis strategies for a particular purpose and set of research questions.

EME 8980 Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student’s graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.

EDF 8980 Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student’s graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.
EME 3410 Emerging Technology in the Classroom
1 sh (may not be repeated for credit)
Prerequisite: EME 2040
Examines specific methods for integrating technology (hardware and software) into subject area curricula in the classroom. Students will explore models of technology integration, classroom management, and administrative tasks that can be performed more efficiently using technology, and learn strategies to select appropriate mediums when planning for technology integration. Individualization will allow each student to select and develop materials in their disciplines.

EME 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 4001 Geospatial Analysis
3 sh (may not be repeated for credit)
Functions of geospatial toolsets, including setting up the workspace, adding imagery and various data-files, importing raw data from spreadsheets, reading data as a table, plotting data on a map, creating features, and manipulating data, are used to analyze cases and scenarios. Students will create professional products that can be used by analysts of all backgrounds. Students will use raw data for the analysis process.

EME 4313 Digital Media Services Operations
3 sh (may not be repeated for credit)
Prerequisite: EME 3402
Multimedia development tools are employed by learners to produce and analyze the properties of multimedia objects. Learners define the performance and quality parameters of media objects and document the development processes necessary to create and deploy them. Learners evaluate the production and deployment processes for media components in the context of media project management and delivery operations. Learners examine the delivery system infrastructure requirements supporting media operations and the implication of those requirements for enterprise network planning and operation.

EME 4454 Technology Systems Implementation Strategies
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570 AND EME 2040
Learners examine a distance learning technology implementation problem as a model for applying a systematic design, planning and development process to implement a large technology system. Learners will design a distributed learning system that uses emerging technologies to support distance delivery. They will produce planning documents that include system design, technical specifications, maintenance policies, project budgeting, resource sequencing and scheduling, requests for proposal development, project bid evaluation tools, and system performance evaluation processes.

EME 4474 Social Network Analysis
3 sh (may not be repeated for credit)
Social network analysis toolsets will be used to develop skills in integrating analytic disciplines and methods through real world scenarios by reading, creating, and manipulating SNA charts. Data sets will include class-generated content as well as large spreadsheets, where data will be manipulated through filters and conditional formatting, and using basic algorithms to analyze their data and locate patterns and trends. Interpretation of raw data and product generation using tables and charts, students will develop skills in reading, interpreting, and presenting findings.

EME 4622 Technology Systems Operations 1
4 sh (may not be repeated for credit)
Prerequisite: CGS 2570 AND EME 2040
Students will develop skills and abilities to effectively manage the operations of a networked technology system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include in-depth examination and appropriate applications in each functional area. Hardware and software tools that are required to perform network management tasks will be examined.

EME 4627 Technology Systems Operations 2
4 sh (may not be repeated for credit)
Prerequisite: CGS 2570 AND EME 2040
Students learn advanced principles associated with designing, developing and operating technology systems for large organizations spanning one or more sites.

EME 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 4944 Internship/Practica
3 sh (may not be repeated for credit)
Observation of and participation in technology systems related roles in professional settings. Students participate in field-based experiences related to their course of study and future goals. Prerequisite: Permission of instructor.

EME 5355 Instructional Design for HPT
1.5 sh (may not be repeated for credit)
Instructional Systems Design is the basis of creating instructional-based interventions. Performance professionals and other non-instructional designers must be able to articulate systematic ways of integrating instructional interventions into the workplace from a pedagogical and practical viewpoint. Emphasized will be theories and models that support the design of instruction. Focus areas will include instructional strategies and media selection techniques, with an emphasis on integrating media rich elements into instruction.

EME 5403 Education and Training Technology Support Systems
4 sh (may not be repeated for credit)
Prerequisite: CGS 2570 AND EME 2040
Students learn advanced principles associated with designing and developing multi-site and enterprise-based support systems for education and training technologies and organizations that focus on developing effective learning environments and communities. Offered concurrently with EME 4627; graduate students will be assigned additional work.

EME 5457 Distance Education Technologies
3 sh (may not be repeated for credit)
Distance education will be investigated as an instructional method in terms of delivery, development, and implementation. Students will design a distance education environment that uses emerging technologies that support distance delivery. Offered concurrently with EME 4454; graduate students will be assigned additional work.
EME 5625 Technology Tools: Site-Based Educational Networks
4 sh (may not be repeated for credit)

Students learn the basic principles associated with designing and developing site-based networks that support education and training organizations. Major topics to be examined include: terminology, troubleshooting techniques and strategies, the future of educational networks. Offered concurrently with EME 4622; graduate students will be assigned additional work. Credit may not be received in both EME 5625 and EME 5315.

EME 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 6054 Foundations of Instructional Technology
3 sh (may not be repeated for credit)

Students investigate historical, sociological, and philosophical perspectives of instructional technology in education and training environments. Students develop the knowledge, skills, and abilities needed to integrate instructional technology theories and processes into education and training settings. Credit may not be received in both EME 6054 and EME 6053.

EME 6062 Applied Instructional Technology Investigations
3 sh (may not be repeated for credit)

This course provides an introduction to past, present, and future instructional technology research. Research paradigms and underlying theory appropriate for IT are emphasized. Quantitative, qualitative, and mixed methods research designs and appropriate data analysis techniques are explored.

EME 6256 Creativity and Innovation in the Learning Organization
3 sh (may not be repeated for credit)

Designed for students who believe they will one day be involved in a creative, entrepreneurial or "intrapreneurial" (corporate) opportunity within the learning organization (or invent a new learning organization) and would like to understand how to draw from their own creative skills. Students will engage with several innovation case studies of learning organizations as well as participate in applied assignments to support pedagogical innovation. Various strategies to promote disruptive innovation will also be explored in terms of how it impacts radical change in the learning organization. Creating a culture of creativity and innovation within the teaching and learning environment is paramount to this course. This course prepares students to contribute in unique and extremely productive ways to impact today's organizational demands.

EME 6314 Technology for Leaders
3 sh (may not be repeated for credit)

Provides leaders with the basic terminology, historical perspectives, theoretical basis, research and practical application of instructional technology to empower persons and professionals who work in educational settings. Builds knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques.

EME 6316C Instructional Management and Technology
3 sh (may not be repeated for credit)

Survey of the applications and uses of technology from a variety of perspectives, including education, training, military, public sector, and non-profits. Focusing on technology, information, and information technology literacy. Special attention is paid to providing a systematic view of the use of technology and information in organizations. Credit may not be received in both EME 6316C and EDG 6344C.

EME 6317 Instructional Technology for Educational Leaders
3 sh (may not be repeated for credit)

The basic terminology, technology skills, historical perspectives, theoretical basis, research and practical application of instructional technology for professionals who work in educational settings. Knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques to real-world situations. Upon completion of this course, students will have the ability to use instructional technology for administrative and instructional purposes and to plan, organize, and promote its use in PK-12 educational environments. Credit may not be received in both EME 6317 and EDF 6287.

EME 6357 Instrument Design for Performance Technology
1.5 sh (may not be repeated for credit)

Selection, design, development and critique of data collection instruments used in PT. Students develop skills to select appropriate data collection methods, critically examine existing instruments and design and develop new, situation-specific instruments to be used for PT process in a variety of organizational settings.

EME 6358 Evaluation for MSA Professionals
1.5 sh (may not be repeated for credit)

Develop skills in selecting appropriate models for conducting an evaluation in an administrative environment. A series of models will be evaluated for applicability and use in administrative environments.

EME 6408 Integrated Technology Learning Environments
3 sh (may not be repeated for credit)

Students evaluate how technology is impacting education and training from an instructional systems perspective, students will review what educational and training leaders are promoting for the future, what new approaches exist, and how to integrate this into a technology-rich learning environment. All content will be woven around current national and state reform and accountability efforts; standards for instructional technology; and competencies for instructional designers.

EME 6409 Distance Learning Implementation
3 sh (may not be repeated for credit)

Examines current theories, technologies and strategies related to the design, development and implementation of effective, efficient distance learning systems. Students will critique existing distance learning systems, examine the roles and responsibilities of instructors and students in distance learning and design, develop and implement a theoretically sound distance learning experience.

EME 6414C Web-Based Instructional Tools for Educators
3 sh (may not be repeated for credit)

Students will gain the knowledge and skills necessary to design and develop web-based instruction using a variety of current technologies. Through integrating theory and application, students will learn to critically examine the instructional capabilities of various technologies and identify instructional strategies that support integration. Multiple units of instruction will be developed and designed that demonstrate the ability to align technology integration with the principles of learning theory and instructional design.
EME 6415 Digital Video for Instruction
3 sh (may not be repeated for credit)

Principles of instructional video design and development including designing for learning objectives, effective audio and lighting techniques, video recording, editing, and delivery will be taught. Students will explore the opportunities and technical challenges associated with web-based video as a communication medium. Practical application projects are an integral part of the learning experience as students explore all aspects of instructional video pre-production, production, and post-production.

EME 6426 HPT Interventions
3 sh (may not be repeated for credit)

Human Performance Technologists, education and training leaders in organizations, identify gaps between desired and actual employee performance levels. Once the gaps have been identified, the HPT practitioner determines interventions or combinations of interventions that are needed to close those gaps. These interventions consist of instructional and non-instructional solutions that educators and trainers design and develop that, in turn, solve organizational performance problems.

EME 6427 Implementing HPT Interventions
3 sh (may not be repeated for credit)

Once performance gaps have been identified, Human Performance Technologists determine interventions or combinations of interventions that are required to close those performance gaps. The implementation of instructional and non-instructional interventions follows a process model that meets education and training needs of the organization. Guides the student in developing strategies for implementing those interventions.

EME 6428 Evaluating HPT Interventions
3 sh (may not be repeated for credit)

Human Performance Technologists, education and training leaders in organizations, evaluate the success of HPT interventions, both instructional and non-instructional. The impact of these interventions must be quantified and solutions modified as needed based on evaluation data.

EME 6429 Human Performance Improvement
3 sh (may not be repeated for credit)

Models of human performance technology, associated processes, and procedures for completing the tasks ascribed to the various stages within the models/processes are explored.

EME 6458 Distance Learning Policy and Planning
3 sh (may not be repeated for credit)

Current issues and trends in distance learning and associated impact on policies and planning as related to design, development, delivery, evaluation, implementation, and administration of distance learning courses and programs. Theories of distance education are integrated with modern theories of learning and instruction and systems within education and training organizations, leading to the development of a conceptual framework for distance education and learning.

EME 6607 Instructional Technology Planning and Change
1-5 sh (may not be repeated for credit)

Incorporates organizational systems analysis and management as related to instructional projects and building technology-rich learning environments through a comprehensive site-based technology plan. Students develop skills needed to design, develop, and manage instructional technology projects in organizations that continually change and evolve.

EME 6626 Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6 sh of credit)

New technology and approaches to teaching and learning evolve and revolutionize how professionals approach technology integration. Explore how innovation and new technologies can be used in instructional strategies to promote performance and learning.

EME 6628 Contract Administration: Large Scale Instructional Technology Systems
3 sh (may not be repeated for credit)

Will incorporate selected concepts from the trends and issues in instructional technology, current large scale technological initiatives, project planning and contract administration for large scale instructional technology systems. Students will learn to search from a variety of funding sources in instructional technology funding, write proposals and grants, gather data from large databases (such as the MIS records), and manage/administer contracts from a project management perspective.

EME 6666 Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6 sh of credit)

New technology and approaches to teaching and learning evolve and revolutionize how professionals approach technology integration. Explore how innovation and new technologies can be used in instructional strategies to promote performance and learning.

EME 6812 Instructional Technology Seminar
3 sh (may not be repeated for credit)

Students will synthesize the research on instructional technology as it relates to teaching and learning. Students will study the influence of research and theory in instructional technology to suggest a model or set of constructs for technology based learning environments. Students exploring emerging technologies will be better prepared as decision makers and leaders in the field of instructional technology such as virtual reality, telepresence, hypermedia, cyberspace, and distance education have potential application for education and training. The full emergence into a technology based learning environment could revolutionize teaching and learning.

EME 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 6936 Seminar in PT Issues: Special Topics
1.5-9 sh (may be repeated for up to 9 sh of credit)

Performance Technology Professionals face a range of issues resulting from the implementation of PT theories and models. In this course, topics such as performance consulting, performance analysis, interventions will be explored. Strategies for implementation of the topic will be integrated into applications of performance technology.
EME 6946 Field Experiences in Instructional and Performance Technology
3-6 sh (may not be repeated for credit)
Observation and participation in instructional and performance technology organizational settings. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

EME 7063 Research on Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6 sh of credit)
Design and develop instructional systems that use innovative and emerging technologies to promote motivation, performance and learning in education and training systems. Build a research framework to investigate technologies and instructional systems.

EME 7417 Advanced Web-Based Learning Environments
3 sh (may not be repeated for credit)
Incorporates concept, theory, and research to the design, development, and evaluation of complex web-based learning environments. Included is the development of a WBI learning environment based on sound principles of learning theory and instructional design.

EME 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 7938 IT Research Design Seminar
3 sh (may not be repeated for credit)
Provides Instructional Technology advanced graduate students with the opportunity to conduct an in-depth examination of the processes and procedures in applied IT research, specifically as related to the dissertation process. Students explore how to determine appropriate topics for IT research, format and style for research publications, strategies for conducting literature reviews, hypotheses, a research design, and appropriate statistical application.

EME 8980 Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Instructional Technology program. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory / unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission is required.

EDUC:EXCEP CHILD-CORE COMP Courses

EEX 3070 Methods in Inclusion and Collaboration
3 sh (may not be repeated for credit)
Required for all education majors. Structure and content are based on the University of West Florida's model for professional education, the Empowered Person and Professional taking action. Views future teachers as being: 1) critical thinkers, 2) problem solvers, 3) decision makers, 4) counselors / therapists, 5) ethical and moral beings, 6) lifelong learners, and 7) active professionals. Therefore it provides students a knowledge base of varying exceptionalities, as well as, multiple instructional and management strategies. Students also will be actively involved in experimenting with instructional and behavioral strategies, examining the professional literature, and problem solving in relation to specific cases of students with disabilities or diverse cultural backgrounds. Additionally, information about special needs students, agencies and resources. Students will also become aware of the use of technology in meeting the needs of students with physical, sensory and communicative disabilities. Includes required field experience.

EEX 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EEX 4141 Survey of Normal and Abnormal Language and Speech Development
3 sh (may not be repeated for credit)
Comparison of normal and deviant patterns of language and speech development. Etiology and remedial programs emphasized.

EEX 4221 Evaluation and Prescriptive Instruction for the Exceptional Child
3 sh (may not be repeated for credit)
Development of skill in administration, interpretation and construction of formal and informal tests for evaluating children and individualizing instruction for exceptional children. Field experience is required.

EEX 4254 Instructional Strategies for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 4255
Focuses on development, implementation, and evaluation of educational plans; special approaches to teaching basic academic and functional skills; developmental programming and data-based management of instruction. Emphasis is also placed on developing awareness of the specific instructional needs of culturally diverse students.

EEX 4255 Curriculum for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 4255
An introduction to specialized curriculum and instructional materials for teaching students with high incidence disabilities (learning disabilities, emotional handicaps and cognitive disabilities). This course also provides knowledge and skills required for organizing and directing various instructional strategies in the inclusion classroom. Content includes teaching strategies, approaches to classroom management and discipline, student motivation, and teacher assessment and evaluation.
EEX 4261 Educational Management of Exceptional Children  
3 sh (may not be repeated for credit)  
Materials, methods and management techniques appropriate for use with exceptional children. Includes classroom organization and consultation skills. Includes required field experience.

EEX 4474 Currricula for Teaching Students with Severe Disabilities  
3 sh (may not be repeated for credit)  
Prerequisite: EEX 4141 AND EEX 4255  
An introduction to functional curricula pertaining to students with severe disabilities including: intellectual disabilities, physical impairments, and autism. Emphasis is on family-centered planning, team approaches, access to the general education curriculum, activity-based instruction, and community-based instruction. Specific information on curriculum and instructional strategies related to communication, motor, and self-care skills will be included.

EEX 4772 Personal, Social and Employment Skills for Exceptional Students  
3 sh (may not be repeated for credit)  
Identifying employment goals and skills, career awareness, and transition planning for adult living are the central focus. Emphasis is placed on identifying access points to available community resources, adaptive/assistive technology, grants, personal technology uses and aids, self-determination and self-advocacy. Includes required field experience.

EEX 4832 Field Experience I  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 3234  
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practical Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a satisfactory / unsatisfactory basis only. Permission is required.

EEX 4833 Field Experience 2  
3 sh (may not be repeated for credit)  
Prerequisite: EEX 4832 AND TSL 4081  
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a satisfactory / unsatisfactory basis only. Permission is required.
EEX 6222 Practical Applications and Issues Classroom Management  
3 sh (may not be repeated for credit)  
Analyze professional literature focused on the best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical response and individual best practices for exceptional student education classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large groups in student respective grade level or education settings.

EEX 6225 Assessment of Exceptional Children  
3 sh (may not be repeated for credit)  
Development, administration, and scoring of group and individual tests and assessment devices for determining scope and depth of educational achievement as well as standardized and alternative assessment methods of specific abilities and behaviors which relate to or constitute prerequisites to educational programs. Students develop proficiency in the development of tests, rating scales, and alternative assessment devices for use with students with learning disabilities, emotional handicaps, and mental handicaps. Credit may not be received in both EEX 6225 and EEX 6227.

EEX 6340 Action Research  
3 sh (may be repeated for up to 6 sh of credit)  
Implementation of proposal in Research Practicum including identification of a problem in the area of Special Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on satisfactory / unsatisfactory basis only.

EEX 6455 Program Development for PreK Disabilities  
3 sh (may not be repeated for credit)  
Program development for handicapped and at-risk infants, toddlers and preschoolers; includes administration, supervision, curriculum development parent involvement, staff development, funding and evaluation.

EEX 6612 Behavior Management  
3 sh (may not be repeated for credit)  
Provides a comprehensive knowledge base concerning behavior management including structuring the classroom for success, assessing and managing individuals and group behavior, and motivating and managing exceptional and at-risk students.

EEX 6707 Assessment for Early Intervention for PreK Disabilities  
3 sh (may not be repeated for credit)  
Investigates assessment tools used in early intervention and early childhood special education. Explores the strategies and procedures used for screening, diagnoses and program planning.

EEX 6732 Parent-Teacher Team and Agencies for PreK Disabilities  
3 sh (may not be repeated for credit)  
Parent-teacher team interaction for handicapped and at-risk infants, toddlers and pre-schoolers to age five. Agencies with services for birth to five years of age will be included.

EEX 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EEX 6940 Practicum in Special Education  
1-3 sh (may be repeated for up to 6 sh of credit)  
Designed to provide the critical opportunity for students to demonstrate their ability to write lesson plans, deliver individualized instruction and manage the classroom in a relevant field setting. Minimum of 100 hours in a special education, K-12, setting.

EEX 6945 Research Practicum in Special Education  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 5366  
Explores investigative inquiry of relevant topics within the field of special education. Includes instruction in applied research models, analysis and synthesis of professional literature, formulation of research questions, development of a plan of action, and problem solving within investigative inquiry.

EEX 7060 Seminar: Best Practices in Alternative and Special Education  
3 sh (may be repeated for up to 6 sh of credit)  
Students will develop a knowledge base of instructional issues including program alternatives, development of curriculum, developing instructional interventions, and microcomputers and instruction. Students will focus on best practices related to behavioral management, learning strategy instruction, and career education for those students who are not successfully adjusting to the normal school setting.

EEX 7215 Ecological Assessment and Intervention in Alternative and Special Education  
3 sh (may not be repeated for credit)  
Students will develop a knowledge base of the theoretical principles underlying ecological assessment in alternative and special education settings. Students will be given opportunities to apply ecological assessment procedures in alternative and special education setting to refine their assessment skills and to use the assessment data to plan and implement behavioral and instructional interventions. Credit may not be earned in both EEX 7212 and EEX 7215.

EEX 7343 Contemporary Trends in Special Education  
3 sh (may not be repeated for credit)  
Examines current research related to current trends in special education. Of particular importance will be an analysis of historical antecedents related to these trends, an examination of associated data bases, and implications for future trends.

EEX 7344 Current Research Applications in Special Education  
3 sh (may not be repeated for credit)  
Examines current research findings concerning assessment, instructional planning, and evaluative procedures used with various age groups and disabilities. Past and current practices as well as those procedures that have been found to be most effective will be addressed.

EEX 7457 Changing Paradigms in Education  
3 sh (may not be repeated for credit)  
Develop a knowledge base of major issues confronting the education. Understand current practices and relate these to the future needs of students. Additionally, students will be encouraged to explore ways in which programs and services can be restructured to meet current and future needs.
EEX 7773 Transitional Planning for At-Risk Students
3 sh (may not be repeated for credit)

Students will develop a knowledge base of transitional issues including historical perspectives, legislative mandates for transitional planning, skills and needs of at-risk students, models of transition programs, barriers and supports to transition, professional responsibilities, work and independent living supports, and current and future transitional needs. Students will focus on best practices related to vocational rehabilitation, vocational education, career education, and community education for those students who would not successfully adjust to adult living without these services.

EEX 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDUCATION: CAREER/WORKFORCE Courses

ECW 4310 Strategies for Planning and Operating Health Occupations Education
4 sh (may not be repeated for credit)

Developing strategies and teaching techniques for planning and operating health occupations education programs. Credit may not be received in both ECW 4310 and EVT 4310.

ECW 5265 Coordination and Management of Cooperative Career and Technical Education Program
3 sh (may not be repeated for credit)

Establishing and managing cooperative and specialized programs. Emphasis on promotion of school, community, and employment relationships. Credit may not be received in both ECW 5265 and EVT 5260.

ECW 5465 Bio-technology and Medical Technology Assessment
3 sh (may not be repeated for credit)

Focuses on technology assessment including project-based and problem-based learning, medical, and bio-related technologies. Prepares teachers to be able to teach and assess standards based student outcomes. Content focus is agricultural, medical, and biotechnology design, use, and societal issues. Credit may not be received in both ECW 5465 and EVT 5319.

ECW 6156 Int Curriculum
3 sh (may not be repeated for credit)

ECW 6165 Integrated Curriculum
3 sh (may not be repeated for credit)

Classroom instruction and student engagement as it applies to learning and research. Credit may not be received in ECW 6165 and EVT 6156.

ECW 6561 Selection and Guidance of Career and Technical Studies
3 sh (may not be repeated for credit)

Concentrates on the achievement of skills used by teachers as they gather student data, confer with students and help them plan for employment or further education. Credit may not be received in both ECW 6561 and EVT 6561.

ECW 6695 School Involvement and Community Relations
3 sh (may not be repeated for credit)

Career and Technical Studies as a part of the community implications for industrial, labor, and community relations; school-community / employee-employer relationships; interpreting career and technical programs to the public; role of the career and technical administrator / teacher. Evaluation of related activities. Credit may not be received in both ECW 6695 and EVT 6664.

EDUCATION: CAREER/TECH Courses

ECT 3004 Principles of Career and Technical Studies
4 sh (may not be repeated for credit)

Provides an opportunity to develop philosophy of career and technical studies through the understanding of basic concepts and principles underlying education of occupational competency. Credit may not be received in both ECT 3004 and EVT 3065.

ECT 3183 Course Construction for Career and Technical Training
3 sh (may not be repeated for credit)

Organization of instruction for career and technical teaching. Evaluation of career and technical philosophy in determining objectives and constructing course materials in career and technical studies programs. Credit may not be received in both ECT 3183 and EVT 3165.

ECT 3367 Career and Technical Instructional Evaluation
3 sh (may not be repeated for credit)

Testing and evaluating career and technical instruction. Methods of evaluating student progress in all levels of career and technical instruction; emphasis on principles, preparations, administration, and evaluation of picture, performance, oral, and written exams. Credit may not be received in both ECT 3367 and EVT 3367.

ECT 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ECT 3945 Supervised Field Problems
1-3 sh (may not be repeated for credit)

Problems in industrial-vocational environment through arrangement by assigned instructor. Credit may not be received in both ECT 3945 and EVT 3945.

ECT 4380 Special Methods in Career and Technical Studies
4 sh (may not be repeated for credit)

Provides opportunity to become proficient in using special methods and procedural activities in career and technical studies classes. Credit may not be received in both ECT 4380 and EVT 4380.

ECT 4560 Selection and Guidance of Career and Technical Studies
3 sh (may not be repeated for credit)

Methods of selecting and guiding students into career and technical education programs. Emphasis on career selection and placement procedures. Credit may not be received in both ECT 4560 and EVT 4560.

ECT 4562 Introduction to Career and Technical Special Needs Education
3 sh (may not be repeated for credit)

Introduces historical evolution, legislative development and instructional methodologies in career and technical special needs education. Credit may not be received in both ECT 4562 and EVT 4562.

ECT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ECT 4930 Seminar
3 sh (may not be repeated for credit)
ECT 5266 Administration and Supervision of Career and Technical 
Education Programs
3 sh (may not be repeated for credit)
Administration and supervisory functions in creating new programs and
maintaining existing programs to adequately serve community needs in
career and technical and adult education programs. Credit may not be
received in both ECT 5266 and EVT 5266.

ECT 5295 Curriculum and Staff Development for Career and Technical 
Education Programs
3 sh (may not be repeated for credit)
Curriculum development procedures for community career and
technical and adult education needs; procedures for selecting faculty
and support personnel for staffing curricula; and procedures for
conducting effective pre-service and in-service staff development
programs.

ECT 5566 Career and Technical Special Needs Education
3 sh (may not be repeated for credit)
Historical developments, legislation, instructional strategies and
problems associated with instructing special needs students in career
and technical studies related environments. Credit may not be received
in both ECT 5566 and EVT 5565.

ECT 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ECT 6669 Trends and Issues in Career and Technical Education
3 sh (may not be repeated for credit)
Basic philosophical and curricula trends and issues in career and
technical education at the international, national, state, and local
levels. Credit may not be received in both ECT 6669 and EVT 6669.

ECT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ECT 6970 Thesis
1-6 sh (may be repeated for up to 8 sh of credit)
Design, research, and presentation of a master's thesis under the
direction of the faculty committee. Graded on a satisfactory / 
unsatisfactory basis only.

EDUCATION: GENERAL Courses

EDG 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 3233 General Methods of K-12 Reading Instruction
3 sh (may not be repeated for credit)
Provides pre-service teachers with dynamic methods of planning, 
presenting and evaluating instruction while also incorporating 
principles and skills of effective teaching. This course is intended 
for non-education majors. Students will receive instruction in Florida 
Reading Endorsement Competency 2 and strategies for working with 
diverse learners.

EDG 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 4373 Elementary and Special Education Integrated Arts
3 sh (may not be repeated for credit)
Integrates the musical arts, visual arts, and kinesthetic arts/health with 
the reading, language arts, science, and mathematics curriculum as 
a basis for instruction. Students learn discipline specific instructional 
techniques, activities, and content knowledge.

EDG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 4936 Senior Seminar
2 sh (may not be repeated for credit)
Prerequisite: EDF 3234
Co-requisite: EDG 4940
Integrates theory, and general professional preparation with actual 
school practice. Prepares student for achieving initial certification and 
continuing success in the classroom.
EDG 4940 Student Teaching
3-12 sh (may not be repeated for credit)
Minimum of ten weeks of supervised teaching in a public or private school. Student Teaching assignments will be made by the Division of Teacher Education Field Placement Coordinator. Students are not allowed to take additional coursework or pursue employment during the student teaching experience without prior approval from the Teacher Education Field Placement Coordinator. Graded on a satisfactory/unsatisfactory basis only.

EDG 4941 Teaching Internship I
1-6 sh (may not be repeated for credit)
Phase I of a year-long supervised teaching experience in public and private schools. (Students will register for this series in successive semesters,) Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/ Admission to Student Teaching).

EDG 4942 Teaching Internship II
1-6 sh (may not be repeated for credit)
Phase II of year-long, supervised teaching experience in public or private schools. (Students will register for this series in successive semesters). Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 5250 Principles of Curriculum Development
3 sh (may not be repeated for credit)
Emphasis on school curricula, underlying theories, and strategies for improvement make up the foundation for curricular reform. Students intending to meet SDOE certification requirements should select specialization areas. The specialization areas are (a) early childhood/primary education, (b) middle school education, (d) secondary school education, and (e) exceptional student education.

EDG 5289 Alternative Assessment of At-Risk Students
1 sh (may not be repeated for credit)
Introduces students to different alternative assessment instruments to evaluate student performance of at-risk populations. Projects are designed to assist in the development of classroom assessment instruments for their specific curriculum. Credit may not be received in both EDG 5289 and EDG 5287.

EDG 5304 Introduction to Teaching and Learning
3 sh (may not be repeated for credit)
Introduces students to the field of education by exploring instructional planning, effective teaching strategies, and professional educator responsibilities. Florida Educator Accomplished Practices are presented to provide an awareness of effective teaching practices and pedagogy. Students observe and participate in a classroom field experience to practice skills of an effective educator as defined in the Educator Accomplished Practices Competencies.

EDG 5332 Principles of Instructional Design & Product Development
3 sh (may not be repeated for credit)
Selected concepts from communication, motivation, learning theory, and principles of instructional design are examined as a basis for developing instruction. Students develop a learning package utilizing a theoretically based design.

EDG 5345 Educational Assessment for Learning
3 sh (may not be repeated for credit)
Presents foundational level knowledge of assessment concepts critical for good teaching and learning at the middle and secondary level. Students analyze and reflect on professional literature related to the following: 1) types of assessment; 2) high-stakes tests; 3) and data-driven decision-making. Designed to focus on the construction and use of multiple assessment measures for evaluating student understanding.

EDG 5366 Investigative Strategies and Empirical Foundations in Learning and Development
3 sh (may not be repeated for credit)
Designed for graduate students in Teacher Education. Examines the empirical foundations of teacher education, investigative strategies and data sources used to study issues in teacher education. Students will identify a possible area of research in their program of study and will select a Faculty Mentor who will assist in the development of their graduate program. Credit may not be received in both EDG 5366 and EDG 5021.

EDG 5411 Anger Control for At-Risk Students
1 sh (may not be repeated for credit)
Students will examine and identify the nature of anger and aggression and will learn strategies for anger replacement. Students will increase their proficiency in using replacement strategies with at-risk populations.

EDG 5414 Classroom Management Strategies and Applications
3 sh (may not be repeated for credit)
Overview of the foundations of classroom management with a focus on best practices associated with increasing middle and secondary students' motivation, engagement, academic, and social learning. Students analyze and reflect on professional literature that emphasizes the following four related themes: 1) foundations of classroom management; 2) classroom and instructional management; 3) positive relationships and learning environments; and 4) student behavior.

EDG 5416 Classroom Management Practices for At-Risk Students
1 sh (may not be repeated for credit)
Content focuses on structuring the classroom for success, assessing and managing individual and group behavior/academic achievement, and motivating and managing exceptional and at-risk students. This course is required for students participating in the Professional Educator Preparation Program.

EDG 5420 Conflict Resolution Strategies for At-Risk Students
1 sh (may not be repeated for credit)
Introduces professionals working with at-risk populations, several theoretical concepts and current models for reducing/eliminating conflict within at-risk populations. Students are expected to develop a conflict resolution model for their use. Credit may not be receive in both EDG 5420 and EDG 5403.

EDG 5421 Breaking the Cycle of Violence
1 sh (may not be repeated for credit)
Causes of violent behavior in at-risk populations are examined. Strategies for reducing or eliminating violent behavior will be explored by the students. Development of an action plan for violent behavior reduction/elimination by the students is required. Credit may not be received for both EDG 5421 and EDG 5404.
EDG 5427 Involving Families of At-Risk Students
1 sh (may not be repeated for credit)
Students will explore concerns about parental involvement in the educational process and will identify effective strategies which promote the involvement plans to address some of the deficiencies which occur that inhibit involvement of at-risk parents in the educational process.

EDG 5631 Building Resilience in At-Risk Students
1 sh (may not be repeated for credit)
Strategies which promote resilience in at-risk populations will be explored by students. Successful practices will be reviewed involving community and family influences. Credit may not be received in both EDG 5631 and EDG 5406.

EDG 5632 Guidance and Counseling Strategies for At-Risk Students
1 sh (may not be repeated for credit)
The study of research related to guidance and counseling strategies for at-risk populations. Practical activities are provided to assist students in the implementation of methods that promote a helping/caring milieu for at-risk students.

EDG 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 5940 Graduate Student Teaching
1-6 sh (may not be repeated for credit)
Graded on a satisfactory/unsatisfactory basis only.

EDG 6047 Advanced Issues for At-Risk Students
1 sh (may not be repeated for credit)
Overview of current research and theory related to issues of at-risk populations is presented. Students will explore the roles of family, school, community, and culture to determine the more effective methods of building resilience in at-risk students. Credit may not be received in both EDG 6047 and EDG 6046.

EDG 6215 Integrating Curriculum for the K-12 Classroom
3 sh (may not be repeated for credit)
Graduate students focus on techniques for instructional integration of the content areas in order to maximize student learning and prepare teachers to meet the needs of all students. Students will demonstrate competencies through the successful completion of a collaborative interdisciplinary unit, individual lessons plans utilizing differentiated instruction, and a best practices research paper and presentation.

EDG 6237 Setting Academic Goals for At-Risk Students
1 sh (may not be repeated for credit)
Educational strategies assigned to promote the setting of academic goals by at-risk students are acquired through lecture, group projects, and individual research. Students will develop motivational plans for use with at-risk students. Credit may not be received in both EDG 6237 and EDG 6236.

EDG 6255 Alternative Instruction for At-Risk Students
1 sh (may not be repeated for credit)
Alternative instructional strategies for use with at-risk students will be presented. Students will develop a classroom plan utilizing alternative instructional techniques using Gardner's Theory of Multiple Intelligences as a basis.

EDG 6285 Data Driven Decisions Using Standardized Student Achievement Data
3 sh (may not be repeated for credit)
Prerequisite: EDF 6460
Learning, Accountability, and Assessment is one of the new standards in Educational Leadership in Florida and it speaks specifically to the use of data in creating a school environment and curriculum that will enhance student learning. High Performing Leaders must monitor the success of all students in the learning processes to promote effective student performance, and use a variety of benchmarks, learning expectations, and feedback measures to ensure accountability for all participants engaged in the educational process. Using data to drive decisions is a critical component of the accountability system currently in place in Florida. Participants will develop skills in determining data needed to make certain decisions; in analyzing data; in communicating information about the decision making process to stakeholders. Specifically for administrators in the K12 educational setting.

EDG 6288 Educational Assessment
1 sh (may not be repeated for credit)
The focus of this course is assessment concepts that are critical for good teaching. Topics include measurement issues to determine assessment quality; teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; and interpreting standardized assessments commonly used in public schools. Required course for students participating in the Professional Educator Preparation Program.

EDG 6335 Advanced Instructional Design & Product Development
3 sh (may not be repeated for credit)
Analyzes, synthesizes, and evaluates instructional and learning theories and principles, taking into account a variety of situations and individual differences of learners. Develops a design and development plan and produces related materials accounting for various models of instructional design.

EDG 6412 Social Skills Intervention Techniques
1 sh (may not be repeated for credit)
Students will explore current curricula focusing on social skills development and the application to the remediation of at-risk populations. Students will participate in group interaction to develop techniques for delivery of social skills training to targeted at-risk populations.

EDG 6418 Recognizing and Working with Abuse Exposed Youth
1 sh (may not be repeated for credit)
Students explore background theory to better understand the dynamics of at-risk behaviors in abuse-exposed youth. Counseling and recovery techniques believed to be effective in working with abuse-exposed youth will be examined. Communication strategies will be enhanced in class group participation.

EDG 6621 Alternative Certification: Human Development and Learning
1 sh (may not be repeated for credit)
Drawing upon well-established human development/learning theories and concepts and a variety of information about students, the teacher plans instructional activities. Credit may not be received in both EDG 6621 and EDG 6362.
EDG 6630 Peer Pressure and Youth Gangs
1 sh (may not be repeated for credit)
Current research related to peer pressure and gang activity is presented. Students will develop research project and action plans which include abatement strategies for at-risk population. Credit may not be received for both EDG 6630 and EDG 6405.

EDG 6705 Ethnic and Cultural Diversity
1 sh (may not be repeated for credit)
Theoretical and practical considerations for designing diverse, multicultural, and educational curricula are presented. Students will develop curricula for use with remediation of at-risk behaviors in diverse groups.

EDG 6791 Multicultural Education
3 sh (may not be repeated for credit)
Designed to acquaint students with basic concepts of multiculturalism including theoretical orientations to (1) the study of race and ethnicity in the United States; (2) race and ethnicity in American institutions; 3) race and ethnicity in popular culture and communities; and (4) the future of race and ethnic relations and the impact on teaching and learning in a pluralistic society.

EDG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 6918 Research Practicum
3 sh (may not be repeated for credit)
Prerequisite: EDG 5366
Students focus on the development of applied research strategies in an educational setting and are provided with step-by-step guidance in developing research plans. Students are encouraged to explore both qualitative and quantitative methods of research and are provided with faculty support in design of research projects. Prerequisites: EDG 5366 minimum grade of a B.

EDG 6945 Professional Education Practicum
1 sh (may not be repeated for credit)
One of three required practica for students participating in the Professional Educator Preparation Program; aligned with three courses (EDG 5416: Classroom Management, EDG 6621: Human Development and Learning, and EDG 6288: Assessment). Requires students to complete a field experience in an educational setting. May be taken during the same semester or after the completion of the aforementioned courses.

EDG 6946 Special Methods Practicum
1 sh (may not be repeated for credit)
One of three required practica for students participating in the Professional Educator Preparation Program; aligned with the Special Methods Course in the student's respective content area. Requires students to complete a field experience in an educational setting that contains ELL/ESOL students. Students will design and implement a subject-area lesson plan. May be taken during the same semester or after the completion of the aforementioned course.

EDG 6947 Reading Instruction Practicum
1 sh (may not be repeated for credit)
One of three required practica for students participating in the Professional Educator Preparation Program; aligned with EDG 3323C (General Methods for Teaching Students K-12) OR RED 6060 (Foundations of Middle/Secondary Literacy). Requires students to complete a field experience in an educational setting and design and implement a reading lesson plan with accommodations. May be taken during the same semester or after the completion of the aforementioned course.

EDG 6970 Managing Learning Environments
3 sh (may not be repeated for credit)
Managing learning environments is required in the educational curriculum and instructional Doctoral program, with a specialization in teaching and learning. The focus is on developing the skills necessary to become instructional leaders in the 21st century. Management of personnel, students, finances, and community resources is discussed.

EDG 7225 Teaching Critical and Social Issues
3 sh (may not be repeated for credit)
Provides students with opportunities to design curriculum that includes critical, social, and controversial issues and to practice teaching using innovative pedagogical strategies.

EDG 7241 Social Justice and Inequities
3 sh (may not be repeated for credit)
Offers a comprehensive look at inequality and social-justice issues in American society. Using Patricia Hill Collins' notion of a matrix of domination as a central concept, focuses on institutionalized hierarchies and systems of domination both historical and current based on race, ethnicity, sexual orientation, social class, gender, disability, and age, and on how social hierarchies intersect and reinforce each other.

EDG 7303 Analysis of Learning and Teaching Practices
1-3 sh (may not be repeated for credit)
Advanced study of theories and research on teaching and learning and their application to instructional practices; emphasis on professional leadership in decision making related to teaching practices and creating or restructuring learning environments.

EDG 7346 Advanced Analysis of Curriculum and Instruction
3 sh (may not be repeated for credit)
Enables students to utilize research based curriculum and instruction models to analyze and evaluate teaching processes for the purpose of improving instructional programs. Skill development in feedback and coaching techniques and strategies effective in orchestrating change in instructional practices will also be a focus.

EDG 7363 Applications of Current Research in Teaching and Learning
3 sh (may not be repeated for credit)
Provides advanced study of the theoretical knowledge bases, methodologies and applications of current research topics in teaching and learning to a variety of subject areas and educational settings. Required for the doctoral specialization in teaching and learning.
EDG 7458 Analysis of Alternative Assessment Methods  
3 sh (may not be repeated for credit)  
Advanced study of current theories and research on assessment with emphasis on alternative methods of assessing learning; designing multiple forms of assessment that tap into higher level thinking and allow students to demonstrate knowledge of processes and skills of problem solving and knowledge of concepts.

EDG 7905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDG 7930 Special Topics and Critical Issues in Teaching and Learning  
3 sh (may not be repeated for credit)  
Advanced study of current topics and issues related to teaching and learning across a variety of classroom lab or alternative settings. Students explore current teaching practices and future needs related to educational programs for learners of various ages.

EDG 7935 Research Design Seminar  
3 sh (may not be repeated for credit)  
Provides students with an understanding of how to undertake a research thesis. Concepts include format, style, literature reviews, hypothesis formulation, research design and statistical application.

EDG 8980 Dissertation  
1-18 sh (may be repeated for up to 36 sh of credit)  
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction program. This dissertation will reflect intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required.

EDUCATION: GIFTED Courses  

EGI 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EGI 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EGI 6415 Guidance of Learning and Counseling of Gifted Students  
3 sh (may not be repeated for credit)  
Programming the total learning experience for gifted students and meeting the unique counseling needs of the gifted student and his/her parents with an emphasis on awareness, knowledge, and understanding of students who are gifted and talented or from special populations as well as developing strategies to design and implement counseling programs for the unique socio-emotional needs of the gifted/talented student. Unique challenges and opportunities the gifted and talented children and adolescents have in the classroom and the role of the counselor as advocate.

EGI 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDUCATION: HIGHER Courses  

EDH 5040 The American College Student: Theories and Trends  
3 sh (may not be repeated for credit)  
Studies the characteristics of American college students, the effects of the college experience on their learning and personal development, learning and motivation theories that relate to the college student, and critical trends and learning issues for student affairs practitioners related to student services and student development. Will also provide opportunities to practice professional skills.

EDH 5070 Assessment Issues in College Student Affairs  
3 sh (may not be repeated for credit)  
The philosophy and practice of assessment in college student affairs programming and administration. Issues include the role of assessment in regional accreditation, meeting state mandates, and improved institutional effectiveness. A variety of regional and national reports related to the climate of accountability in higher education will be reviewed and discussed.

EDH 6045 Theories of College Student Development  
3 sh (may not be repeated for credit)  
The purpose of this course is to study the various student development theories used as a foundation for student affairs work. Students will learn theories related to psychosocial, identity development, cognitive-structural, and typology. Individuals will learn how to put theory into practice with working with students. Offered only Spring semester.

EDH 6051 Introduction to Higher Education  
3 sh (may not be repeated for credit)  
Development of higher education in United States, current institutions, their practices and possible future trends. The topics addressed include history, recent developments, and projections for the future of various aspects of higher education, including its missions, purposes, students, faculty and staff, administration, finance, organization, governance, and role in American society.

EDH 6368 Multicultural Competence in Student Affairs  
3 sh (may not be repeated for credit)  
Multicultural competence is integral to the mission of providing students with the skills and knowledge needed to successfully manage civil discourse and interactions with individuals from diverse backgrounds and requires that the learner be actively, intentionally, and consistently engaged in learning across diverse populations, cultures, and worldviews.

EDH 6369 Capstone Seminar in Student Affairs  
3 sh (may not be repeated for credit)  
As the culminating experience in the College Student Affairs Administration Program, this course prepares graduates for employment in the student affairs profession. The course is divided into three components: job search preparation and employment strategies, reflection and synthesis of prior course material and that integration with the graduate assistant ship and transitional issues from being a graduate student to a new professional such as establishing a professional identity and social media pitfalls. Course only offered in Spring.
EDH 6405 Legal Issues in Higher Education
3 sh (may not be repeated for credit)
Designed to provide students with overview of the legal issues involving the profession of student affairs in higher education. Through course instruction, the study of legal briefs, and assigned test readings, students will gain a basic understanding of the legal issues and principles that confront student affairs professionals. Not designed to provide legal training or advice. Admission to College Student Personnel Administration is required.

EDH 6505 Budgeting, Finance, and Governance in Higher Education
3 sh (may not be repeated for credit)
Will provide students with a theoretical and practical overview of budgeting, finance, and governance in higher education in general and student affairs specifically. Topics will include budget components and processes, the relationship of strategic planning to budgeting, models for financing the higher education enterprise, and comparative governance models.

EDH 6634 Introduction to College Student Personnel
3 sh (may not be repeated for credit)
Provides a comprehensive introduction to college student personnel administration and its role in American higher education. Introduces philosophical and theoretical concepts; the history of modern student affairs work in higher education; the roles and functions of selected professionals in the field; a review of the skills and competencies required for the professions; and discussion of current issues and concerns relevant to college student services.

EDH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDH 6948 Internship in Higher Education
3 sh (may be repeated for up to 6 sh of credit)
Consists of two components, one involving practical application and the second involving an approved independent study. Interns will work on one or more projects or activities in an appropriate students affairs or student support services unit. Practical experience must include specified learning outcomes and appropriate documentation of work and learning. The practical experience component will provide the opportunity to observe how a student affairs or student services unit operates and to learn about critical issues, essential knowledge, and applicable skills required to be successful in the field. The independent study portion of the internship will allow development of an area of special interest and expertise. Permission is required.

EDH 7205 Curriculum Development in Higher Education
3 sh (may not be repeated for credit)
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.

EDH 7632 Leadership in Higher Education
3 sh (may not be repeated for credit)
Designed for current and prospective leaders who seek to learn more about leadership in higher education in this new global area, students will study several theoretical perspectives that have gained some credibility and research basis over the last several decades. In addition, students will read about or hear first person accounts of leaders? experiences in administrative roles. Participants will be asked to relate course material to their own current experience and personal goals. The ultimate goal of the course will be to create a personal knowledge base from which to create a plan for developing or refining one? s own leadership perspectives. In effect, the theme for the course will be: How can someone utilize current theory and literature and the experiences of practicing leaders to become a more effect leader?.

EDH 7633 Governing Colleges and Universities
3 sh (may not be repeated for credit)
Prerequisite: EDH 6051
Students will examine and compare existing 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. Academic and Administrative Unit Governance within institution of higher Education will be highlighted. Policy analysis and research will be explored as it relates to governance in higher education. Prerequisites: EDH 6051.

EDH 7635 Organization and Administration of Higher Education
3 sh (may not be repeated for credit)
Provides opportunities for students to explore and generate greater understanding of the organization and administration in higher education by examining the concepts and behaviors of those organizations and administrators.

EDH 7636 Organizational Theory and Practices in Higher Education
3 sh (may not be repeated for credit)
Explores theories and models of organizations and their applicability to colleges and universities and the work done in them. Pays particular attention to aspects of decision-making, leadership and organizational change and to the influence of internal and external actors. Also examines many of the administrative practices and processes common in colleges and universities today.

EDUCATION: MIDDLE Courses

EDM 3230 Mid Sch Org & Curr
3 sh (may not be repeated for credit)

EDM 3322 Integrated Methods I
3 sh (may not be repeated for credit)
Teacher's role in delivering content specific curricula within the middle school will be the focus. Students will develop ability to construct lesson plans of various types that integrate specialized content across the middle level curriculum. Basic lesson plans for direct instruction, guided discovery, problem-centered learning, and class and individual projects will be developed. Planning for implementation of cooperative learning, alternative assessment, and verbal techniques that encourage student thinking will be addressed. Students will become familiar with content specific manipulatives, other instruction tools, and ways to organize and communicate information in written and oral modes. Development of the emerging professional at the tech level will be emphasized.
EDM 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDM 3942 Field Experience 1
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234 AND EDM 3230 AND EDM 3322
This experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 4310 Instruction, Management, and Assessment- Middle
3 sh (may not be repeated for credit)
Strategies for managing the classroom, instruction, and evaluation as it relates to teaching the essential school competencies.

EDM 4402 Educational Assessment
3 sh (may not be repeated for credit)
Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments; (3) interpreting standardized assessments commonly used in public schools.

EDM 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDM 4943 Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EDM 3942 AND TSL 4080
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 6235 Integrated Curriculum and Instruction/Middle Level Education
3 sh (may not be repeated for credit)
Advanced curriculum for graduate middle level education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphases of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

EDM 6411 Practical Applications and Issues in Classroom Management: Middle Level Education
3 sh (may not be repeated for credit)
Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for middle level classroom management. Develop a knowledge base of classroom practices and application for individual, small group, and large groups in student respective grade level or education settings.

EDM 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDM 6911 Action Research
1-6 sh (may not be repeated for credit)
Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

EDM 6912 Research Practicum
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: EDG 5366
Identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

EDM 6944 Graduate Methods/ESOL/Reading Practicum: Middle Level Education
3 sh (may not be repeated for credit)
Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations, required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL, and reading strategies is included.

EDUCATION: SECONDARY Courses

ESE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
ESE 4322 Instruction, Management, and Assessment: Secondary Education
3 sh (may not be repeated for credit)

Strategies for managing the classroom, instruction and evaluation as it relates to teaching the essential school competencies.

ESE 4323 Educational Assessment
3 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

ESE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ESE 4940 Field Experience 1
3 sh (may be repeated for up to 6 sh of credit)

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of classroom settings. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Florida Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, e.g., culturally and linguistically diverse, and students at risk for school failure. Permission is required.

ESE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ESE 6217 Integrated Curriculum and Instruction/Secondary Education
3 sh (may not be repeated for credit)

Advanced curriculum course for graduate secondary education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphasizes of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

ESE 6343 Practical Applications and Issues in Classroom Management: Secondary Education
3 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for secondary education classroom management. Develop a knowledge base of classroom management practices and application to individual, small group, and large groups in student respective grade level or education settings.

ESE 6421 Research Practicum
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: EDG 5366

Identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

ESE 6426 Action Research
1-6 sh (may not be repeated for credit)

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory / unsatisfactory basis only.

ESE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ESE 6944 Graduate Methods/ESOL/Reading Practicum: Secondary Education
3 sh (may not be repeated for credit)
Co-requisite: MAE 6361,SSE 6326

Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations, required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL, and reading strategies is included.

EDUCATION: SUPERVISION Courses

EDS 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDS 6105 Human Relations and Communication in Education
3 sh (may not be repeated for credit)

Theoretical and experiential framework for maximizing human relations and communication within the educational domain including principles of persuasion, public information management, effective communication strategies and personal effectiveness with staff and the public.

EDS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDUCATION: TECHNOLOGY Courses

ETE 3323 Integrated Methods I for C&T
3 sh (may not be repeated for credit)

Skills and knowledge to integrate specialized content across the middle level curriculum. Instructional tools and ways to organize and communicate information are examined. Credit may not be received in both ETE 3323 and EVT 3124.
ETE 4003 Foundations of Technology Education  
3 sh (may not be repeated for credit)  
Prepares teachers to teach the foundations of technology. The areas of content focus are construction technologies. Construction topics such as reading blueprints, building materials, framing, roofing, finishing, and related construction technologies are included in the course. Credit may not be received in both ETE 4003 and EVT 4192.

ETE 4203 Program Management in Technical Education  
3 sh (may not be repeated for credit)  
Planning, designing, organizing, and managing the learning environment in technology education classrooms and laboratories. Includes student motivation, learning management systems, and the basics of drafting and design. Credit may not be received in both ETE 4203 and EVT 4261.

ETE 4344 Methods for Teaching Middle School/High School Technology Education  
3 sh (may not be repeated for credit)  
Prepares teachers to teach technology education in middle and high schools. Provides instruction in standards based instructional planning, methods, resources, and assessment. Credit may not be received in both ETE 4344 and EVT 4123.

ETE 4415 Exploring Technology Education Settings  
3 sh (may not be repeated for credit)  
Explores the application of technology in everyday life. Content area of focus is information and communication technologies. Prepares teachers to be able to teach the design of websites and use websites as part of the technology education program. Credit may not be received in both ETE 4415 and EVT 4143.

ETE 4436 Technology Education Systems  
3 sh (may not be repeated for credit)  
Prepares teachers to be able to teach technological systems. The focus of the content is energy and power technology topics and activities in the schools. Credit may not be received in both ETE 4436 and EVT 4144.

ETE 4444 Technological Design in Technology Education  
3 sh (may not be repeated for credit)  
Describes the importance of technological design. Introduces engineering design as a high school model. Credit may not be received in both ETE 4444 and EVT 4094.

ETE 4463 Technology Education Assessment  
3 sh (may not be repeated for credit)  
Technology assessment with an emphasis on medical and bio-related technologies. Credit may not be received in both ETE 4463 and EVT 4313.

ETE 4473 Impacts of Technology for Technology Systems  
3 sh (may not be repeated for credit)  
The major impacts of technology with focus on transportation technologies. Prepares teachers to be able to teach transportation technologies and transportation systems. Special emphasis is placed on automotive technologies. Credit may not be received in both ETE 4473 and EVT 4304.

ETE 4694 Invention and Innovation for Technology Education  
3 sh (may not be repeated for credit)  
The effects of invention and innovation on society. Content focus is on manufacturing technologies. Prepares teachers to be able to teach materials and manufacturing processes technology.

ETE 5145 Integrated Learning Environment Portfolios  
3 sh (may not be repeated for credit)  
Producing a management portfolio for an integrated learning environment. Credit may not be received in both ETE 5145 and EVT 5195.

ETE 5345 Advanced Methodology for Technology Education  
3 sh (may not be repeated for credit)  
Curriculum for standards based instruction, planning, and various methodologies. Credit may not be received in both ETE 5345 and EVT 5364.

ETE 6416 Advanced Technology Education Exploration  
3 sh (may not be repeated for credit)  
A research-based approach to exploring the applications of technology in everyday life. Areas of focus are information and communications technologies. Prepares students to be able to teach the design of websites and use websites as part of the technology program. Credit may not be received in both ETE 6416 and EVT 6146.

ETE 6426 Technology Education and Construction Technology  
3 sh (may not be repeated for credit)  
Uses a construction technology approach to describe the importance of technological design. Topics include the nature and impact of technology. Credit may not be received in both ETE 6426 and EVT 6148.

ETE 6437 Energy and Power Technology  
3 sh (may not be repeated for credit)  
A case study approach to prepare candidates to be able to teach technological systems. Focus on energy and power technology topics and activities in the schools. Credit may not be received in both ETE 6437 and EVT 6196.

ETE 6456 Technology and Engineering Design  
3 sh (may not be repeated for credit)  
Uses a design brief focus to describe the importance of technological design. Also introduces engineering as a high school model. Credit may not be received in both ETE 6456 and EVT 6147.

ETE 6476 Technology Education and Manufacturing  
3 sh (may not be repeated for credit)  
An integrated methods approach to describe the effects of invention and innovation on society. The content focus is on manufacturing technologies. Prepares teachers to be able to teach materials and manufacturing processes technology. Credit may not be received in both ETE 6476 and EVT 6145.

ETE 6478 Technology Transportation System  
3 sh (may not be repeated for credit)  
Employs a research-based approach to the major impacts of technology with focus through transportation technologies. Also prepares teachers to be able to teach transportation technologies and transportation systems. Special emphasis is placed on automotive technologies. Credit may not be received in both ETE 6478 and EVT 6408.
EDUCATIONAL ADMINISTRATION Courses

EDA 5191 Leadership in Education: School Improvement Theory and Practice
3 sh (may not be repeated for credit)
Leadership theories and planning models which have been developed through studies in education, business, industry, and the military will be examined. Application of these will be made to educational practices with a focus on continuous improvement and on the school improvement process.

EDA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDA 6061 Educational Organization and Administration
3 sh (may not be repeated for credit)
Examines the structure, organization and management of modern education. Emphasis is upon basic theories, principles and competencies in educational administration.

EDA 6063 Introduction to Educational Leadership
3 sh (may not be repeated for credit)
An introduction for graduate students to the educational leadership program. Major topics will be leadership, William Cecil Golden Modules, Code of Ethics, communication—both verbal and nonverbal, and interpersonal skills. Permission is required.

EDA 6222 Administration of School Personnel
2-3 sh (may not be repeated for credit)
Focus is on the improvement of educational programs through the proper management of human resources. Emphasis is upon recruitment, selection placement, and evaluation of school personnel.

EDA 6232 Law and Education
3 sh (may not be repeated for credit)
Examines law and its relationship to education. Students study constitutional law, legislative enactments, school policies, and the relationships among these aspects of school law as they pertain to administration. Tort liability, due process for students, corporal punishment, teacher contracts, and other law relating to authority and responsibility of teachers and administrators are included.

EDA 6240 Introduction to School Finance
3 sh (may not be repeated for credit)
Focus is on principles, trends, and practices in financing public education, including federal, state, and local financial support programs. School finance as related to taxation and other areas of school finance is included. Fiscal policies, planning, and management as related to the total education program are central themes.

EDA 6503 The Principalship
3 sh (may not be repeated for credit)
Prerequisite: EDG 6285
Focus is on problems, practices, and theories pertinent to the administration of building level programs in elementary, middle, and secondary schools. Includes planning, staffing, implementing, and evaluation techniques needed to administer a school program.

EDA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDA 7217 Effective Communication Techniques
3 sh (may not be repeated for credit)
Broad based study of communication skills and techniques, both interpersonal and media oriented, that emphasize strategies used by outstanding educational leaders within and outside the educational domain.

EDA 7423 School Reform: Research to Practice
3 sh (may not be repeated for credit)
Covers the use of research in determining the relationship of school administration to the community; educational decision-making in the context of local politics; community analysis; public relations; public participation in educational planning; school advisory councils; dealing with parents; and implications for school administrators and boards of education.

EDA 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDA 7931 Seminar with High Performing Educational Leaders
3 sh (may not be repeated for credit)
Provides exposure for educational leadership students to high performing educational leaders. Students will interact with high performing leaders, study current research in educational leadership, develop group experiences in theoretical problems and solutions, and spend observation time in the work site of a high performing educational leader.

EDUCATIONAL: ELEMENTARY Courses

EDE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDE 3942 Field Experience I
3 sh (may not be repeated for credit)
Prerequisite: EDE 4200 AND EDF 3234
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of setting that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a satisfactory / unsatisfactory basis only. Permission is required.

EDE 4200 Planning and Curriculum I
3 sh (may not be repeated for credit)
Designed to assist students to learn basic planning and instructional skills in preparation for teaching. Course also includes essential mathematics skills requisite to the Florida Teacher Certification Exam. Students will implement the knowledge gained through lower division content-specific courses and prepare for the methodological courses in the teacher education program.
EDE 4201 Planning and Curriculum II  
3 sh (may not be repeated for credit)  
Prerequisite: EDE 4200 AND (LAE 3314 OR MAE 3310)  
Designed to assist prospective teachers to use their knowledge of content and pedagogical methods as a basis for developing skills in planning integrated elementary curriculum. Students will implement the knowledge gained through lower division content-specific courses and upper division methods courses to create interdisciplinary units of instruction that are designed to facilitate elementary children's learning across all content areas. Emphasis will be placed on creating developmentally appropriate units that meet the needs of both elementary and primary children, taking into account Gardner's multiple intelligences; and the special needs of ESOL and exceptional students. Additionally, demonstration teaching, and constructing and scoring classroom assessments that allow children to show what they know and understand are a focus of the course work.

EDE 4302 Instruction, Management, and Assessment-Elementary  
3 sh (may not be repeated for credit)  
Strategies for managing the classroom, instruction and evaluation as they relate to teaching the essential school competencies.

EDE 4421 Educational Assessment  
3 sh (may not be repeated for credit)  
Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

EDE 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDE 4944 Field Experience 2  
3 sh (may not be repeated for credit)  
Prerequisite: EDE 3942 AND TSL 4080  
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

EDE 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDE 6206 Integrated Curriculum and Instruction/Elementary Education  
3 sh (may not be repeated for credit)  
An advanced curriculum course for graduate elementary level education students. Format is a combination of classroom instruction and student engagement focusing on integration of the content areas and a project in which the student applies learning and conducts research. The emphasis of instruction is integration, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, Sunshine State Standards, and assessment strategies.

EDE 6305 Graduate Kodaly Method  
3 sh (may not be repeated for credit)  
Offers the student the opportunity to study the Kodaly Method of teaching elementary students. The course will take an in-depth look at training young singers using the Kodaly Method and will include a brief history of the method and an update on current practices. Permission is required.

EDE 6482 Research Practicum  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 5366  
Identification of a problem in the area of Elementary Education review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Students successfully completing this course will be allowed to register for Action Research.

EDE 6521 Practical Applications and Issues in Classroom Management: Elementary Education  
3 sh (may not be repeated for credit)  
Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for elementary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group, and large groups in student respective grade level or educational setting.

EDE 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDE 6911 Action Research  
3 sh (may be repeated for up to 6 sh of credit)  
Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Elementary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory / unsatisfactory basis only.

EDE 6941 Graduate Methods/ESOL/Reading Practicum: Elementary Education  
3 sh (may not be repeated for credit)  
Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL and reading strategies is included.
ELECTRICAL ELECTRON ENG Courses

EEE 3308 Electronic Circuits I
3 sh (may not be repeated for credit)
Prerequisite: EEE 4308L AND EEL 3111 AND EGN 3204
Fundamentals of analog electronic circuits and systems. A grade of “C” or better is required in the prerequisites. Credit may not be received in both EEE 3308 and EEL 3304.
EEE 3396 Solid-State Electronic Devices
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045 AND EEL 3111
Introduction to the principles of semiconductor electron device operation. A grade of “C” or better is required in the prerequisite.
EEE 4306 Electronic Circuits II
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308 AND EEE 4306L AND EEE 4308L AND EEL 3112
Design-oriented continuation of EEL 3304C; feedback on am circuits and applications, digital electronics. A grade of “C” or better is required in the prerequisites.
EEE 4306L Electronic Circuits II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308 AND EEE 4306 AND EEE 4308L AND EEL 3112
Electronic Circuits II laboratory. A grade of “C” or better is required in the prerequisites. Material and Supply fee will be assessed. Credit may not be received in both EEE 4306L and EEL 4306L.
EEE 4308L Electronics Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308 AND EEL 3117L
Electronic instrumentation devices and systems. Material and supply fee will be assessed. A grade of “C” or better is required in the prerequisites. Credit may not be received in both EEE 4308L and EEL 4304L.
EEE 4310 VLSI Circuit Design
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308 AND EEL 3701
Analysis and design of digital circuits using MOS and bipolar devices.

ELECTRONIC ENGIN TECH Courses

EEE 3308 Electronic Circuits I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105
Develop competency in basic electronic devices. Theoretical and practical aspects of electronic devices such as diodes, transistors, operational amplifiers, integrated circuits and other semiconductor devices are presented. Hands-on experiences in the lab provide experimental analysis and verifications.
EEE 2142C Electronics II
3 sh (may not be repeated for credit)
Prerequisite: EET 2142C
Develop competency in basic electronic circuits. Theoretical and practical aspects of electronic circuits such as voltage regulators, filters, wave generation and shaping circuits, multi-vibrators and power supply are presented. Hands-on experiences in the lab provide experimental analysis and verifications.
EEE 3038C Advanced Circuit Analysis
4 sh (may not be repeated for credit)
Advanced course in circuit analysis that stresses network theorems, solutions of time and frequency domain problems; magnetic coupling; three phase circuits; transformer theory and impedance matching; two-port parameters. Includes a computer lab to analyze the above circuits. DC and AC courses, offered at Junior and Community colleges under various course numbers are required. An introductory course in programming is also needed.
EEE 3218C Control Systems Technology
4 sh (may be repeated for up to 5 sh of credit)
Prerequisite: MAC 1105
To develop basic knowledge on; controllers and their principles, control loop characteristics, selection, design and development of feedback control systems.
EEE 3321C Communication Systems
4 sh (may not be repeated for credit)
Develops competencies in the theory and industrial application of modern communication systems. Introductory course with experiments in transmission systems, waveguides, fiber optics, microwaves, and lasers. Credit may not be received in both EET 3321C and EET 3326C.
EEE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EEE 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of Cooperative Education director is required.
EEE 4146 Electronic Circuits and Application Technology
3 sh (may not be repeated for credit)
Application of theoretical concepts in analog electronic circuits and development of electronic projects. Processes involved in the design and development of an electronic project with hands-on experience, including working with electronic circuits and project design techniques such as development of drawing, testing using multism, troubleshooting, and bread board and actually preparing the product on the printed circuit board.
EEE 4356C Advanced Communication
4 sh (may not be repeated for credit)
Prerequisite: EET 3321C
Advanced concepts in digital communication systems; students will study and conduct laboratory experiments in advanced communication systems (video, facsimile, telephone, modems, RS232, cellular phones, networks and fiber optics).
EEE 4513 Electric Machinery
3 sh (may not be repeated for credit)
Study of electric machinery, including direct current motor and generator, induction and synchronous motors and generators for single phase and three phase systems. Emphasis is on practical applications, principles of operation and performance characteristics. Courses in AC and DC circuits are required.
EET 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EET 4930 Seminar: Electrical Engineering Technology  
3 sh (may be repeated indefinitely for credit)
Participation in advanced discussions of electrical engineering technology. Topics will vary depending upon the needs of each class of students. Senior status in electrical engineering technology is required.

EET 4941 Internship/Project in Electrical Engineering Technology  
3 sh (may be repeated for up to 6 sh of credit)
Observation and participation in electrical engineering technology based project/seminar with a training related settings. Designed to reinforce academic preparation; confirm education and career goals; and facilitate personal and professional development. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

**ELECTRONIC SPECIALTY TECH Courses**

EST 3543 Programmable Logic Controllers  
4 sh (may be repeated for up to 8 sh of credit)  
Prerequisite: MAC 1105
Explore logic fundamentals, programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol.

EST 4538 Instrumentation  
3 sh (may not be repeated for credit)  
Prerequisite: PHY 2049 AND PHY 2054
The industrial application of instrumentation. Electrical, mechanical, and pneumatic instrument applications.

**ENGINEER TECHNOL: DRAFTING Courses**

ETD 2320 Computer Aided Design  
3 sh (may not be repeated for credit)
Application of industrial standard CAD program. Develop skills in CAD processes and procedures while working on real-world projects.

**ENGINEERING TECH: INDUS Courses**

ETI 3445 Construction Estimating  
3 sh (may not be repeated for credit)
Processes involved in estimating, including the formats appropriate for construction jobs and projects. Terminology, software options, and general requirements will be explored. Modeling of real-world experiences will include a project bid and formal "mock" bid opening.

ETI 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

ETI 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**ENGINEERING TECH: POWER Courses**

ETP 4240 Power Systems Technology  
3 sh (may not be repeated for credit)
Investigation of the technical aspects of generation, transmission and distribution of electrical power systems; circuit constants, assemblies of power systems, distribution of electrical energy, faults and behavior of power system equipments.

**ENGINEERING TECH:MECH Courses**

ETM 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**ENGINEERING: ELECTRICAL Courses**

EEL 2948 Service Learning Field Study I  
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty “customize” courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

EEL 3111 Circuits I  
3 sh (may not be repeated for credit)  
Prerequisite: EGN 3204 AND MAC 2313 AND PHY 2049
Co-requisite: EEL 3117L
Basic Analysis of DC and AC electric circuits. A grade of "C" or better is required in the prerequisite(s).

EEL 3112 Circuits II  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3111 AND EGM 4313 AND MAP 2302
Co-requisite: EGM 4313
Continuation of EEL 3111 with emphasis on circuit applications of convolution, the Fourier series, and the Laplace and Fourier transforms. A grade of "C" or better is required in the prerequisites.

EEL 3117L Electrical Circuits Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: EEL 3111
Introductory electrical engineering laboratory in electrical instrumentation, devices, and systems. Material and supply fee will be assessed. Credit may not be received in both EEL 3117L and EEL 3303L.

EEL 3135 Discrete-Time Signals and Systems  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3112 AND (EEL 4834 OR COP 3014 OR EGN 3203)
Difference equations, discrete convolutions, the z transform, discrete and fast Fourier transforms, digital processing of analog signals, sampling theorem, probability and random signals.

EEL 3211 Basic Electric Energy Engineering  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3111 AND EEL 3112
Introduction to the fundamentals of energy conversion; Power transformers, DC machines, Poly-phase induction machines, synchronous machines, single phase motors and permanent magnet machines, Speed control of DC motors, Speed control of ac motors. A C is required in the prerequisites to this course.

EEL 3472 Electromagnetic Fields and Applications I  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2312 AND PHY 2049
Electric and magnetic fields and forces, Maxwell's equations in point and integral form, plane wave propagation, energy and power.
EEL 3473 Electromagnetic Fields and Applications II
3 sh (may not be repeated for credit)
Prerequisite: EEL 3472
Maxwell's equations, electromagnetic wave propagation in different media, antennas, waveguides, numerical methods, electromagnetic coupling. A grade of “C” or better is required in the prerequisite(s).

EEL 3701 Digital Logic and Computer Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 3701L AND (MAC 2311 OR MAC 1114 OR MAC 2312)
Co-requisite: EEL 3701L
An overview of logic design, algorithms, computer organization, sequential circuit design, and computer engineering technology.

EEL 3701L Digital Logic and Computer Systems Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 3701
Practical applications of digital logic. Material and supply fee will be assessed.

EEL 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EEL 4213 Electric Energy Systems 1
3 sh (may not be repeated for credit)
Prerequisite: EEL 3211
System models for generators, transformers, transmission lines and large-scale power networks. Matrix formulations, power flow and analysis, symmetrical component theory, balanced and unbalanced fault analysis. A grade of "C" or better is required in the prerequisite(s).

EEL 4242 Power Electronic Circuits
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308
Circuit topologies, analysis, design, and simulation of electronic circuits such as power supplies and motor drives. A grade of "C" or better is required in the prerequisite(s).

EEL 4276 Cyber Security of Industrial Control System
3 sh (may not be repeated for credit)
This course is used to teach and share in-depth defense strategies and up-to-date information on cyber threats and mitigations for vulnerabilities with the goal of improving cyber security preparedness in the industrial control systems community. This course provides an overview of operations security for industrial control systems and prepares the students for the risks and threats associated with electric grids and other centralized and distributed control systems. Offered concurrently with EEL 5277; graduate students will have additional work.

EEL 4283 Introduction to Renewable Energy
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045 AND ENC 1102 AND PHY 2049
The main objective of this course is to study the different types of energy sources and storages, renewable energy systems, energy distribution, energy policy and management. Computer-aided analysis of renewable energy resource information and data for evaluating energy potential and energy costs.
EEL 4713L Digital Computer Architecture Lab
1 sh (may not be repeated for credit)
Prerequisite: EEL 3701/L AND EEL 4713

Computer design and organization. A grade of "C" or better is required in
the prerequisites. Material and supply fee will be assessed.

EEL 4744 Microprocessor Applications
3 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND EEL 3701

Elements of microprocessor-based systems; hardware interfacing
and software design for their application. A grade of "C" or better is
required in the prerequisite(s).

EEL 4744L Microprocessor Applications Laboratory
1 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND EEL 3701L
Co-requisite: EEL 4744

Practical applications of microprocessor-based systems, software
and hardware interface. A grade of "C" or better is required in the
prerequisites. Material and supply fee will be assessed.

EEL 4759 Digital Image Processing
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112 AND EGN 3203

An introduction to digital images and digital image processing
techniques, including frequency and spatial image enhancement,
image restoration, wavelets and morphology.

EEL 4822 Pattern Recognition
3 sh (may not be repeated for credit)
Prerequisite: EEL 4834 AND EGN 3203

An introduction to pattern recognition and classification techniques,
including Bayesian classifiers, linear and non-linear classifiers,
clustering, perceptrons, and feature generation/selection.

EEL 4834 Programming for Engineers
3 sh (may not be repeated for credit)
Prerequisite: MAC 1114 OR MAC 2311 OR MAC 2312

Develop computer skills and art of writing good computer programs
using a high level programming language like C. Examples and
exercises relevant to Electrical Engineering are used.

EEL 4905 Individual Problems in Electrical Engineering
1-12 sh (may not be repeated for credit)

May be repeated with a change of content up to a maximum of 4
credits. Selected problems or projects in the student's major field of
engineering study. Permission is required.

EEL 4930 Special Topics in Electrical Engineering
1-4 sh (may be repeated for up to 6 sh of credit)

May be repeated with change of content up to a maximum of 6 credits.
Special courses covering selected topics in electrical engineering.
Permission is required. A grade of "C" or better is required in the
prerequisite(s). (Contact the department for prerequisites).

EEL 4940 Engineering Internship
1 sh (may be repeated for up to 3 sh of credit)
Prerequisite: EEL 3111 OR EEL 3701

Practical and significant electrical and/or computer engineering based
work experience under approved industrial supervision. Graded on a
satisfactory / unsatisfactory basis only. Permission from department
coop advisor is required.

EEL 4949 Co-Op Work Experience
1 sh (may be repeated for up to 4 sh of credit)

Practical co-op work under approved industrial supervision. Grading is
on satisfactory / unsatisfactory basis only. Permission is required.

EEL 5277 Cyber Security of Industrial Control System
3 sh (may not be repeated for credit)

This course is used to teach and share in-depth defense strategies
and up-to-date information on cyber threats and mitigations for
vulnerabilities with the goal of improving cyber security preparedness
in the industrial control systems community. This course provides
an overview of operations security for industrial control systems and
prepares the students for the risks and threats associated with electric
grids and other centralized and distributed control systems. This
course introduces students to new developments in cyber threats,
braches and incidents in electrical grid and other industrial control
systems. The course also discusses issues and methods to improve
industrial security on the automation platform. Offered concurrently
with EEL 4276; graduate students will have additional work.

ENGINEERING: GENERAL Courses

EGN 1008C Concepts in Engineering
3 sh (may not be repeated for credit)

Stimulate and maintain the student's interest in the field of engineering.
Provides an insight into the various fields of engineering as well as the
appropriate computational skills required for success in subsequent
courses in their respective engineering program. Credit may not be
received in both EGN 1008C and EGN 1006C.

EGN 3204 Engineering Software Tools
1 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Gives students an introduction to important Engineering software tools
such as MATLAB, Labview, MATHCAD, and FSPICE.

EGN 3613 Principles of Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Time value of money and discounted cash flow. Cost comparison of
alternatives involving depreciation, taxes, inflation and profitability.
Financial statements, break-even and minimum cost analysis and
economic optimization.

EGN 4950 Capstone Design I
1 sh (may not be repeated for credit)

Preliminary work on senior design project. This portion of the senior
design will focus on the objectives and criteria, synthesis, and analysis
elements of project development. After developing design concepts,
researching for implementation methods, and performing a feasibility
study (which will include economic, social, ethical, etc., factors), the
semester will culminate with a senior design project proposal and
presentation.

EGN 4952L Capstone Design II
2 sh (may not be repeated for credit)
Prerequisite: EGN 4950

Continuation of Capstone Design I, with emphasis on construction,
testing, and evaluation elements of project development. Material and
Supply fee will be assessed. Permission is required.
ENGINEERING: SCIENCE Courses

EGM 2500 Engineering Mechanics-Statics
2 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND PHY 2048
Covers basic aspects of reduction of force systems, equilibrium of particles and rigid bodies, vector methods, and application to structures and mechanisms.

EGM 3401 Engineering Mechanics-Dynamics
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500 AND MAC 2313
Covers material of EGM 3400 plus extended coverage of three dimensional rigid-body dynamics and of orbital motion.

EGM 4313 Intermediate Engineering Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MAP 2302
Engineering applications of linear algebra, vector differential, calculus (including the concepts of gradient, divergence, and curl), complex variables (and functions of complex variables), and fourier series and transforms. Engineering applications of statistics.

ENGINEERING: SUPPORT Courses

EGS 1006 Introduction to Engineering
1 sh (may not be repeated for credit)
Introduces the student to engineering topics and guides the student toward Electrical and Computer Engineering at UWF. Students get the opportunity to interact with current engineering students and practicing engineers from various engineering fields. The student also participates in a hands-on design component. The goal of the class is to help the student make an informed choice about career alternatives.

EGS 4032 Professional Ethics
3 sh (may not be repeated for credit)
Prerequisite: ENC 1102
An interactive study of ethics, theory and the development of professionalism. Case studies of ethical conflicts in engineering practice. Covers engineering codes of ethics and requires students to resolve theoretical situations through application of ethical codes.

ENGLISH COMPOSITION Courses

ENC 1101 English Composition I
3 sh (may not be repeated for credit)
Guided practice in critical thinking and the writing process for various rhetorical situations. Documented paper is included. Requires additional work in the Writing Center. (Gordon Rule Course: Wrtg) and (General Studies Course: COM / C1).

ENC 1102 English Composition II
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101
Continuation of ENC 1101, with emphasis on complexities of style and rhetorical strategies. Documented paper is included. Course requires additional work in the Writing Center. (Gordon Rule Course: Wrtg), and (General Studies Course: COM / C2).

ENC 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 3240 Technical Writing
3 sh (may not be repeated for credit)
Practice in preparing documents used in science, business, industry, and government, including letters, manuals, reports and proposals. (Gordon Rule Course: Wrtg).

ENC 3250 Professional Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102
Professional writing course relevant in business, industry, government, and other institutional settings; major elements of written organizational communication with emphasis on composition of letters, memos, proposals, etc. (Gordon Rule Course: Wrtg).

ENC 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 4940 Writing and Editing Internship
3-6 sh (may not be repeated for credit)
Students will be involved in all aspects of publishing magazines, brochures, and newspapers. They will research assigned topics, conduct interviews, write feature articles, edit and proof-read articles, and participate in editorial discussions. Permission is required.

ENC 5333 Topics in Rhetoric
3 sh (may be repeated for up to 9 sh of credit)
Examination of various topics in rhetoric, composition and / or pedagogy as they apply to the history, theory, analysis, and/or practice of rhetoric. Topics change each term. Contact department or instructor for specific topic.

ENC 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 5945 Writing Internship
3 sh (may be repeated for up to 6 sh of credit)
Course description: Students will be placed in internship positions with professional businesses and non-profit organizations in which they may use their advanced skills in writing, research, creativity, and analysis within a professional environment. Students will write final evaluations of their employer site, a lengthy research & reflection paper, and a professional portfolio. 12 hours of graduate courses must be completed prior to taking course. Permission is required. Offered only Fall and Spring Semesters.

ENC 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENGLISH LITERATURE Courses

ENL 2010 History of English Literature I
3 sh (may not be repeated for credit)
Historical trends: Beowulf to 1660. Primarily for English majors and minors.

ENL 2020 History of English Literature II
3 sh (may not be repeated for credit)
Historical trends: 1660 to present. Primarily for English majors and minors.
ENL 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENL 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENL 4203 Old English Language
3 sh (may not be repeated for credit)
Language instruction for speaking, writing, and reading Old English.
Offered Fall semester only.

ENL 4210 Topics in Medieval Literature
3 sh (may not be repeated for credit)
Prerequisite: ENL 2010
Students read and discuss a variety of texts by diverse authors across the 1000-year period which can be termed the extended Middle Ages, as well as significant precursor texts and authors, in order to discover lines of origin and influence for evolving formal, stylistic, socio-political and theological results, and to acquire an aesthetic appreciation of the literatures of the period. An awareness of significant critical and theoretical terminologies will be developed and incorporated into classroom discussion and writing projects.

ENL 4224 Topics in Early Modern Literature
3 sh (may be repeated for up to 8 sh of credit)
Focused study of a particular issue, theme or body of work in sixteenth and seventeenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary depending on faculty expertise and research interests.

ENL 4234 Topics in Eighteenth-Century British Literature
3 sh (may not be repeated for credit)
Focused study of a particular issue, theme or body of work in Restoration and eighteenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary according to faculty expertise and research interests.

ENL 4240 Topics in Romantic Literature
3 sh (may not be repeated for credit)
Selected topics engaging the prose and poetry of major Romantics: Blake, Coleridge, Wordsworth, Byron, Keats, Shelley.

ENL 4251 Topics in Victorian Literature
3 sh (may not be repeated for credit)
Covers the period leading up to and including the reign of Queen Victoria of England (1837-1901). Literary works will be considered in the context of numerous cultural transformations underway during the period.

ENL 4284 Topics in 20th-Century and Contemporary British Literature
3 sh (may not be repeated for credit)
Covers representative works from all genres written from 1900 to the present by authors living in the British Empire. Emphasis will be placed on Modernist and Postmodernist works.

ENL 4311 Chaucer
3 sh (may not be repeated for credit)
Canterbury Tales read in Middle English.

ENL 4333 Shakespeare
3 sh (may not be repeated for credit)
Selected comedies, histories and tragedies.

ENL 4341 Milton
3 sh (may not be repeated for credit)
Major and selected poems; emphasis on reading of Paradise Lost.

ENL 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENL 5206 Old English Language
3 sh (may not be repeated for credit)
Language instruction for speaking, writing, and reading Old English. Offered Fall Semester.

ENL 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 3010 Critical Methods for Literary Study
3 sh (may not be repeated for credit)
Development of writing and critical thinking skills specific to the study of literature. English majors and minors only. Credit may not be received in both ENG 3010 and ENC 3320. (Gordon Rule course: Wrtg).

ENG 3113 Fiction and Film
3 sh (may not be repeated for credit)
Selected prose fiction and film adaptations.

ENG 3843 Theories of Sexuality and Gender
3 sh (may not be repeated for credit)
Examines sexuality and gender as social constructs as opposed to "natural" categories or "essences." Includes feminism, gay and lesbian studies, and masculinity studies. Draws on many disciplines, including literature, history, sociology, anthropology, philosophy, and the sciences.

ENG 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 4013 Introduction to Literary Theory
3 sh (may not be repeated for credit)
Designed to provide an introduction to a wide range of current theories about the uses and effects of literature and literary criticism. Primarily for English majors and minors. Meets Multicultural requirement.
ENG 4060 HISTORY OF THE ENGLISH LANGUAGE
3 sh (may not be repeated for credit)

Presents the history of the development of the English language, internal and external, from Indo-European roots to the present. Offered Spring Semester.

ENG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 4934 Capstone Experience
3 sh (may not be repeated for credit)

Covers a wide range of literary genres and works that have been considered controversial at some point in their history because of their subject matter, form, or style. Changing attitudes toward what is considered "literature" or "literary" will be emphasized. Required texts will vary according to instructor's expertise. Permission is required.

ENG 5009 Introduction to Advanced Literary Study
3 sh (may not be repeated for credit)

Examination of the history and current state of literary studies and introduction to current methods and resources necessary for advanced literary studies.

ENG 5067 History of the English Language
3 sh (may not be repeated for credit)

Presents the history of the development of the English language, internal and external, from Indo-European roots to the present. Offered only Spring semester.

ENG 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 6018 History of Literary Theory
3 sh (may not be repeated for credit)

Survey of literary theory from Plato to contemporary thought.

ENG 6019 Topics in Literary Theory
3 sh (may not be repeated for credit)

Topics in literary theory.

ENG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

ENVIRONMENTAL SCIENCE Courses

EVS 4192C Environmental Soil Science
3 sh (may not be repeated for credit)

Examines the delicate nature of soils and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Offered concurrently with EVS5194C (Environmental Soil Science); graduate students will be assigned additional work. Permission is required.

EVS 5194C Environmental Soil Science
3 sh (may be repeated for up to 12 sh of credit)

Examines the delicate nature of soil and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Students will be assigned additional work. Permission is required.

EVS 6196C Sampling and Analysis in Environmental Sciences
3 sh (may not be repeated for credit)

Theory and techniques of modern field and laboratory methods used for physical and chemical analysis of soil, sediment, and water samples. Procedures for exploratory data analysis and interpretation. Emphasis will be upon the collection of samples and their subsequent analysis. Written reports and oral presentations are required. Material and Supply Fee will be assessed.

EVS 6940 Internship
1-3 sh (may be repeated for up to 6 sh of credit)

Supervised and structured participation in environmental work experience in the private, government, or educational sectors. Permission is required.

EVS 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

ENVIRONMENTAL STUDIES Courses

EVR 3894 Environmental Writing
3 sh (may not be repeated for credit)

Prerequisite: ENC 1101 AND ENC 1102

Practice in the scientific methods, research approaches, reference styles, grantsmanship, and technical writing in the environmental sciences. (Gordon Rule Course: Wrtg).
EVR 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EVR 4023 Coastal and Marine Environments
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2100/L
The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers.

EVR 4035 Environmental Law
3 sh (may not be repeated for credit)
Overview of current local, state and federal laws relating to the environment. Includes the legal history of current laws and case studies.

EVR 4037 Environmental Auditing
3 sh (may not be repeated for credit)
Overview of the evolution of environmental regulations and the adoption of environmental initiatives by the private business sector. Compliance audits, property assessments, and contingent liability audits will be conducted.

EVR 4050 Environmental Field Research
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GEO 1200/L OR GLY 2100/L
Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS / MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

EVR 4412 Environmental Aspects of Urban Growth
3 sh (may not be repeated for credit)
The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 5413; graduate students will be assigned additional work. Senior standing is required.

EVR 4823 Environmental Impact Assessment
3 sh (may not be repeated for credit)
Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 5824; graduate students will be assigned additional work.

EVR 4870 Urban Planning
3 sh (may not be repeated for credit)
Prerequisite: GEO 3372 OR EVR 4035
This course examines the interactions between physical and human landscapes that have produced a "third dimension? of geography: the legal landscape. We will analyze the role of law and land-use management (i.e., planning) techniques as major factors in determining how humans use resources and design our patterns of settlement. The course reviews the evolution of public control over land use in the U.S., from its roots in English common law and feudal land organization strategies, through the institution of urban planning and zoning, to contemporary and innovative land use controls available to today's urban planners and land-use managers. Whenever possible, current land-use issues from the Pensacola region are incorporated in class discussion. Students are exposed to a number of critical U.S. Supreme Court opinions on major land-use cases. The primary learning objective of the course is to provide students with a comprehensive "bread and butter" background in the history and techniques of urban planning. The subjectivity of many topics from the course is conducive to lively classroom discussion and (friendly) academic debate.

EVR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EVR 4941 Practicum in Environmental Studies
3 sh (may be repeated for up to 6 sh of credit)
Supervised field experience in business, government, non-profit, educational or other environmental organization. Offered concurrently with EVR 5332; graduate students will be assigned additional work. Permission is required.

EVR 4970 Senior Thesis in Environmental Science
3 sh (may not be repeated for credit)
Students will propose, design, and perform a research project in consultation with a UWF professor, who will serve as research supervisor. Research will be summarized and presented within the department and University. Permission is required.

EVR 5061 Environmental Field Research
3 sh (may be repeated for up to 6 sh of credit)
Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS / MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 4050; graduate students will be assigned additional work.

EVR 5071 Coastal and Marine Environments
3 sh (may not be repeated for credit)
This course will investigate the world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Cross listed with EVR 4023; Graduate students will be assigned additional work.
EVR 5332 Practicum in Environmental Studies
3 sh (may be repeated for up to 6 sh of credit)
Supervised field experience in business, government, nonprofit, educational or other environmental organizations. Offered Summer term only. Offered concurrently with EVR 4941; graduate students will be assigned additional work. Permission is required.

EVR 5413 Environmental Aspects of Urban Growth
3 sh (may not be repeated for credit)
The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 4412; graduate students will be assigned additional work. Graduate status is required.

EVR 5435 Urban Planning
3 sh (may not be repeated for credit)
This course will be dual-listed with EVR 4870 (Urban Planning). The course reviews the evolution of public control and over land use as well as planning techniques in the U.S. Students are assigned several critical U.S. Supreme Court opinions on major land-use cases. The primary learning objective of the course is to provide students with a comprehensive "bread and butter" background in the history and techniques of urban planning. Graduate students will be assigned extra work and will be graded using a rubric that reflects the higher performance standards to which graduate students will be held.

EVR 5824 Environmental Impact Assessment
3 sh (may not be repeated for credit)
Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 4823; graduate students will be assigned additional work.

EVR 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EVR 6930 Special Topics in Environmental Sciences
3 sh (may be repeated for up to 9 sh of credit)
Covers various advanced subjects in the environmental sciences, depending on the specialization of the instructor. Topics include environmental pedagogy, coastal meteorology, groundwater modeling, etc. Graduate-level standing is required.

EUROPEAN HISTORY Courses

EUH 1001 Western Perspectives II
3 sh (may not be repeated for credit)
Study of the West's geographical, socio-cultural, political and scientific developments with an emphasis on how changes in these areas helped to shape civilization in the West, influenced the non-western world, and provided insight into the current conditions in the West and its relationship with the global community. (General Studies Course: SS / HIS) Meets Multicultural requirement.

EUH 3121 Fall of Rome, Birth of Europe
3 sh (may not be repeated for credit)
Analysis of the continuity and changes in the social, religious, and political life of what constituted Rome's empire following its decline. Study of the converging cultures that created Europe. Covers the period 400-1050.

EUH 3122 High Middle Ages
3 sh (may not be repeated for credit)
Covers the formation of Europe from 1050-1450, a period of dramatic change. Dispels the notion of the "Dark Ages" by analyzing social alignments, religious reform, the rise of universities, economic advancement, and the development of constitutional forms of government.

EUH 3200 Early Modern Europe
3 sh (may not be repeated for credit)
Developing nations emphasizing political, social, economic, cultural and intellectual aspects of Europe from 1500 through French Revolution and Napoleonic period.

EUH 3203 Modern Europe
3 sh (may not be repeated for credit)
European history since 1815, emphasizing contemporary problems, their historical development and interpretations. Meets Multicultural requirement. Credit may not be earned in both EUH 3203 and EUH 3205.

EUH 3280 The Second World War
3 sh (may not be repeated for credit)
Examines the military, social, political, diplomatic, cultural, and economic aspects of the Allied and Axis powers on all fronts of World War II.

EUH 3411 Rome and the Mediterranean World
3 sh (may not be repeated for credit)
The development of Rome from a tiny town to its domination of the entire Mediterranean. Focuses on the structures of family, government, and military that allowed for this ascendancy. Includes Rome's cultural evolution, social relationships, wealth, and women's roles. Meets Multicultural requirement.

EUH 3502 England Since 1485
3 sh (may not be repeated for credit)
Political, social, cultural and intellectual history of England in modern period stressing growth and development of Britain and Empire/ Commonwealth in contemporary world.
EUH 3570 Russia to 1917
3 sh (may not be repeated for credit)
Beginning with the formation of Kievan Russia in the 10th century, traces the history of Russia until the October Revolution of 1917. Topics considered include the Mongol yoke, the expansion of Muscovy, imperial Russia, the rise of socialism, and the First World War.

EUH 3576 Soviet Union since 1917
3 sh (may not be repeated for credit)
Starting with the October Revolution of 1917, this course traces the history of the Soviet Union through its disintegration in the early 1990s. Topics considered include War Communism, Lenin's New Economic Policy, Stalinism, the Khrushchev and Brezhnev eras, Gorbachev's reforms, the collapse of the Soviet Union, and the emergence of successor states. Meets Multicultural requirement.

EUH 4142 Renaissance and Reformation
3 sh (may not be repeated for credit)
A topical introduction to the major changes affecting European society from 1300 to 1650. Focuses on economic change, social stratification, cultural diffusion, political rivalries, and religious crossroads. Special coverage of consumerism, social welfare, education, toleration, and women and families.

EUH 4190 Age of Discovery
3 sh (may not be repeated for credit)
In the late fifteenth through the seventeenth century Europeans set sail beyond known coastlines to explore new trade routes to Africa, Asia, and the New World. Examines European expansion in maritime history and explores factors that allowed for voyages of discovery, the voyages themselves, and the results of initial cultural contact.

EUH 4239 Europe's Expansion Overseas
3 sh (may not be repeated for credit)

EUH 4242 The First World War
3 sh (may not be repeated for credit)
Origins, evolution and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany's culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflict in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 5246; graduate students will be assigned additional work.

EUH 4245 Interwar Europe 1918-1939
3 sh (may not be repeated for credit)
Examines events in selected countries of Europe between the First and Second World Wars. Lectures and readings will consider many aspects of European life, with an emphasis on political, economic, and social issues. In each section, the focus will be on how states cultivated or failed at maintaining representative democracy.

EUH 4246 The First World War
3 sh (may not be repeated for credit)
Origins, evolution and consequences of the rise of Nazi Germany, ascendency of Adolf Hitler and subsequent erosion of traditional European culture. Various military and political leaders who served predominated roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 5467; graduate students will be assigned additional work.

EUH 4453 The French Revolution
3 sh (may not be repeated for credit)
This course is designed to provide the student with an extensive understanding of the origins, evolution and consequences of the French Revolution and the rise of Napoleon Bonaparte.

EUH 4462 Germany since 1866
3 sh (may not be repeated for credit)
Beginning with unification of Germany between 1866 and 1871, this course will consider the history of imperial Germany, the Weimar Republic, the Third Reich, divided Germany after 1945, and Germany's reunification in 1989-90.

EUH 4465 Nazi Germany
3 sh (may not be repeated for credit)
Origins, evolutions and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Various military and political leaders who served predominated roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 5467; graduate students will be assigned additional work.

EUH 4466 Germany since 1866
3 sh (may not be repeated for credit)
Beginning with unification of Germany between 1866 and 1871, this course will consider the history of imperial Germany, the Weimar Republic, the Third Reich, divided Germany after 1945, and Germany's reunification in 1989-90.

EUH 4467 The Third Reich
3 sh (may not be repeated for credit)
Examines events in selected countries of Europe between the First and Second World Wars. Lectures and readings will consider many aspects of European life, with an emphasis on political, economic, and social issues. In each section, the focus will be on how states cultivated or failed at maintaining representative democracy.

EUH 4503 English Constitutional and Legal History
3 sh (may not be repeated for credit)
English constitutional history from Anglo-Saxon period to present; emphasis upon historical development of English governmental institutions (e.g. parliament, monarchy and legal system), interpretation of their interrelationship and their overall impact upon English nation. Much use of primary sources.

EUH 4511 Tudor and Stuart England
3 sh (may not be repeated for credit)
England at home and in international relations during the Tudor and Stuart dynasties (1485-1714). Strong emphasis on overall development and use of primary sources.

EUH 4521 Victorian England
3 sh (may not be repeated for credit)
England and British Empire in 19th century: emphasis upon economic, social, cultural and constitutional history.

EUH 4522 Modern Britain
3 sh (may not be repeated for credit)
Survey course in British history in the modern period. Overview of British history from the end of the Victorian period in 1901 to the present.
EUH 4535 England and America from the Colonial Period to Present
3 sh (may not be repeated for credit)
Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British empire. Offered concurrently with EUH 5539; graduate students will be assigned additional work.

EUH 4545 British Political Thought in the Early Modern Era
3 sh (may not be repeated for credit)
The development of political thought in the British Isles during the Tudor, Stuart, and Hanoverian periods, from the accession of Henry VIII to the death of George IV.

EUH 4563 Habsburg Monarchy 1526-1918
3 sh (may not be repeated for credit)
Examines the Habsburg Monarchy from its inception to its demise at the end of the First World War. Covers the rise of the monarchy, dynastic affairs of the Habsburgs, problems of political integration, the Monarchy as a bastion against the Islamic Turks, the age of the Counter Reformation and the Baroque, Metternich's diplomacy after the Napoleonic Wars, economic development, constitutional difficulties, nationality problems, Viennese culture around 1900, and the Monarchy's dissolution.

EUH 4614 Medieval Women
3 sh (may not be repeated for credit)
Survey of the experiences of women from the beginning of the Christian era through the Reformation. Focuses on Western Europe and pays particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and especially the Church in defining women's work, and social and family roles.

EUH 4640 European Agrarian and Social History
3 sh (may not be repeated for credit)
Focuses on the life of peasants and farmers throughout Europe from the seventeenth century until the present to see how agriculturalists survived on the land, interacted with other social classes, contended with industrialization and urbanization, immigrated to the New World, and participated in all sorts of political systems (democratic, dictatorial, fascist, and communist). The final portion will consider the farmer's role in the European Union. Special sections will deal with folk art and music, food, literature, and other aspects of rural culture.

EUH 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EUH 5246 The First World War
3 sh (may not be repeated for credit)
The general objective of this course is to provide students with a deeper knowledge of the origins, evolution, and consequences of World War II.

EUH 5467 Nazi Germany
3 sh (may not be repeated for credit)
Origins, evolution, and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 4465; graduate students will be assigned additional work.

EUH 5539 England and America from the Colonial Period to the Present
3 sh (may not be repeated for credit)
Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British Empire. Offered concurrently with EUH 4535; graduate students will be assigned additional work.

EUH 6295 Seminar: Interpretation of European History 1648-Present
3 sh (may not be repeated for credit)
Advanced seminar in historiography of European history from the end of the Thirty Years War to the present. Focus is on the interpretation of historical writing on specific topics during the Early Modern periods of European history.

EUH 6338 Seminar: East Central Europe and the Balkans
3 sh (may not be repeated for credit)
Students will examine a specific aspect of a state, ethnic group, or region in East-Central Europe and the Balkans since 1815. Requires readings and reports, but the largest portion of the grade is based on an analytical research paper using primary and secondary sources.

EUH 6666 European Ideologies and Political Movements Since 1789
3 sh (may not be repeated for credit)
Examines the great political ideologies, movements, and theories that shaped not only European affairs but Western thought as a whole from the time of the French Revolution to the present.

EUH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EXPER ANALY OF BEHAVIOR Courses
EAB 4704 Introduction to Behavior Modification
3 sh (may not be repeated for credit)
Principles and practical application of behavior modification techniques in a wide variety of settings: school, home, medical and business. Especially appropriate for non-psychology majors.

EAB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EAB 5705 Advanced Behavior Modification
3 sh (may not be repeated for credit)
Experimental psychology literature surveyed for relevant theories and techniques for dealing with problems in human behavior in a variety of settings including home, school, business and clinic.
EAB 5738 Behavioral Medicine
3 sh (may not be repeated for credit)
Application of psychological expertise to problems in medicine.
Emphasis primarily on role of behavioral principles and techniques in the treatment of medically related complaints and traditional psychosomatic disorders.
EAB 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EXP 4204 Sensation and Perception
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 AND PSY 3213 AND PSY 3215 AND STA 2023
Will survey the theory and literature related to the study of sensation and perception. Topics will include the neural mechanisms involved in coding sensory information, visual processing, audition, speech perception, cutaneous and chemical senses, development of perceptual processes, and impairment of vision and hearing.
EXP 4250 Human Factors Psychology
3 sh (may not be repeated for credit)
Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 5256; graduate students will be assigned additional work.
EXP 4404 Psychology of Learning
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Principles and applications of learning theories, including conditioning and extinction, reinforcement and punishment, attention, memory, cognitive processes and physiological correlates of memory and cognition. It is preferred that the student has had several other psychology courses.
EXP 4507 Memory and Cognition
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 AND PSY 3213 AND PSY 3215 AND STA 2023
Will survey theory and literature related to the study of human memory and cognition. Topics will include attention, memory, imagery, language and bilingualism, problem solving, metamemory, expertise, and the development of language and cognitive processes.
EXP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EXP 5208 Advanced Sensation and Perception
3 sh (may not be repeated for credit)
Students will develop an in-depth understanding of how human beings use environmental energies to sense and perceive the world. Topics include the examination of neural systems involved in vision, audition, somatosensation, olfaction, and gustation. Physiological, psychophysical, and cognitive research methodologies used to understand and predict human perception will be discussed.
EXP 5256 Human Factors Psychology
3 sh (may not be repeated for credit)
Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 4250; graduate students will be assigned additional work.
EXP 5575 Judgment and Decision Making
3 sh (may not be repeated for credit)
Seminar on current theories of human judgment and decision making. Normative models of decision making (based in statistics, philosophy, psychology, and economics) and descriptive models of decision making (based on research in cognitive psychology and social psychology) will be discussed. Naturalistic decision making and the role of expertise in judgment and decision making will also be discussed. Topics include judgment and decision making under a variety of conditions of uncertainty, including aviation, diagnosis and treatment decisions in clinical psychology and medicine, forecasting, risk assessment, and jury decisions.
EXP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EXP 6085 Seminar in Applied Psychological Sciences
3 sh (may not be repeated for credit)
Prerequisite: PSY 6217
This course provides an opportunity for students in the Applied Experimental Psychology (AEP) MA track to explore a range of study domains and research methodologies across the science of psychology. It is intended as an advanced survey course in which faculty members and students from the School of Psychological and Behavioral Sciences present brief seminars in their areas of research and on topics related to student's professional development.
EXP 6506 Advanced Cognitive Psychology
3 sh (may not be repeated for credit)
Students will develop a broad understanding of current research and theorizing in the various topics of memory and cognition, including attention, memory systems and processes, representation of knowledge, metamemory, language, problem solving, expertise, decision making, and creativity. Emphasis will be placed on current research and theory in human memory cognition. Students will develop an in-depth understanding of a selected topic in cognition and will write a literature review paper discussing current research and theory in this topic.
EXP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
**FILM Courses**

FIL 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

FIL 4036 History of Motion Pictures I  
3 sh (may not be repeated for credit)  
Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 5038; graduate students will be assigned additional work. Credit may not be received in FIL 4036 and either FIL 4036C or FIL 4403C.

FIL 4037 History of Motion Pictures II  
3 sh (may not be repeated for credit)  
Significant development in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screenings. Offered concurrently with FIL 5039; graduate students will be assigned additional work. Credit may not be received in FIL 4037 and either FIL 4037C or FIL 4404C.

FIL 4102 Writing for Film-Television-Radio  
3 sh (may not be repeated for credit)  
Study and practice of writing for the mass media: screenplays, teleplays, radio and TV commercials, public affairs. Study of various script formats, story board and other presentational material. (Gordon Rule Course: WRTG) Credit may not be received in both FIL 4102 and MMC 4103.

FIL 4117 Advanced Film Writing  
3 sh (may not be repeated for credit)  
Prerequisite: FIL 4102  
Study and practice of writing full-length feature film script.

FIL 4364 Documentary Film and Television  
3 sh (may not be repeated for credit)  
Historical and sociological study of the development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 5367; graduate students will be assigned additional work.

FIL 4435 Digital Film Making  
3 sh (may not be repeated for credit)  
Co-requisite: FIL 4102  
Introduction and practice in all three phases of film production: pre-production planning, scripting, cinematography and editing. Utilization of digital cameras and non-linear editing. Production of short films by each student. Offered concurrently with FIL 5437; graduate students will be assigned additional work. Credit may not be received in both FIL 4435 and FIL 4601. Permission is required.

FIL 4439C Practicum: Film Production  
3 sh (may be repeated for up to 10 sh of credit)  
Prerequisite: FIL 4435  
Practical experience in advanced film production. Permission is required.

FIL 4556 Nonlinear Editing  
3 sh (may not be repeated for credit)  
Prerequisite: FIL 4556  
Guides the intermediate filmmaking student through more advanced experiences in analyzing and editing motion picture projects in the digital non-linear environment.

**FINANCE Courses**

FIN 2104 Personal Financial Planning  
3 sh (may not be repeated for credit)  
Survey of personal financial planning topics. Includes: managing money and credit, personal loans, insurance, investments, home ownership, and taxes.

FIN 3244 Financial Markets and Institutions  
3 sh (may not be repeated for credit)  
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023  
Structure and functions of financial markets and institutions; interest rates, exchange rates, intermediation, and markets.

FIN 3403 Managerial Finance  
3 sh (may not be repeated for credit)  
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023 AND STA 2023  
Analytical concepts available to financial manager in acquisition and effective utilization of funds in relation to other management functions.

FIN 3461 Financial Statement Analysis  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403  
Introduction to the study of financial statements, including interpreting accounting data and analyzing financial statements. Cross Listed with ACG 3180. Prerequisites: FIN 3403 minimum grade of C.
FIN 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

FIN 4145 Portfolio Planning for Individual Investors
3 sh (may not be repeated for credit)
Portfolio planning for individual investors with emphasis on preparing an individual portfolio containing stocks, bonds, money market securities, and real estate.

FIN 4324 Commercial Bank Management
3 sh (may not be repeated for credit)
Prerequisite: FIN 3244 AND FIN 3403

FIN 4414 Financial Theory and Practice
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Designed as an extension of FIN 3403. Topics such as risk and return, stock and bond valuation, time value of money, and capital budgeting, will be covered in greater depth. New topics will include lease financing, hybrid financing, international finance, et al.

FIN 4424 Problems in Corporate Finance
3 sh (may not be repeated for credit)
Prerequisite: (ACG 3101 OR ACG 3172) AND FIN 4414
Cases and readings in corporation finance in areas of capital budgeting, working capital management, capital structure, cost of capital, mergers, reorganizations, and international finance.

FIN 4440 Controllership
3 sh (may not be repeated for credit)
Introduction to the controllership function within an economic entity. Emphasis is placed upon budgeting and working capital management and control.

FIN 4504 Investments
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Introduction to an extensive development of theoretical concepts related to areas of securities analysis and portfolio management.

FIN 4514 Security Analysis and Portfolio Management
3 sh (may not be repeated for credit)
Prerequisite: FIN 3244 AND FIN 4504
Portfolio construction, management and measurement bridging modern theory and practice.

FIN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

FIN 4941 Financial Services Internship
1-6 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Supervised field practicum in financial services-related position. May include activities in any one or more of the functional areas in financial services (commercial banking, mutual funds and investments, insurance, real estate and personal financial planning). Graded on a satisfactory / unsatisfactory basis only. Permission is required.

FIN 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

FISHERY AGRI SCIENCE Courses

FAS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

FOREIGN LANGUAGE EDUCATION Courses

FLE 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

FRENCH LANGUAGE Courses

FRE 1120C French I
4 sh (may not be repeated for credit)
For students with no knowledge of French or with less than two years of high school French. The purpose is to lay a foundation for speaking, writing and reading the language. One hour of lab work is required per week.

FRE 1121C French II
4 sh (may not be repeated for credit)
Continuation of FRE 1120C. One hour of lab work per week is required.

FRE 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

FRE 2200 Intermediate Reading and Translation
3 sh (may not be repeated for credit)
For students who have previous experience in French, but are not yet prepared for advanced work in the language.

FRE 2210 Intermediate Composition & Conversation
3 sh (may not be repeated for credit)
Practical oral communication course for students on an intermediate level. Prepares students for FRE 2200.
FRE 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

FRE 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

FRE 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

FRE 4955 Supervised Foreign Language Field Experience Abroad  
1-3 sh (may be repeated indefinitely for credit)  

Supervised and individualized foreign language experience tailored to  
each student's individual proficiency needs in language and culture.  
Permission is required. Meets Multicultural requirement.  

**FRENCH LITERATURE WRITINGS Courses**  

FRW 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

FRW 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

**GEN HISTORY HISTORIOGRAP Courses**  

HIS 3002 Methods and Materials Colloquium  
3 sh (may not be repeated for credit)  

Intensive experience in historical research and writing, methodology,  
and interpretations. Required for all history majors. Permission is  
required.  

HIS 3313 Issues in Gender and Diversity  
3 sh (may not be repeated for credit)  

Provides an interdisciplinary introduction to the theoretical and social  
issues regarding diverse groups and gender stereotypes. Focuses  
on how gender and diversity fit into the actions and interactions of  
the private and public sectors, and presents information on how to  
effectively promote institutions, relationships, politics, and services  
that value diversity and eliminate gender stereotypes.  

HIS 3930 History Junior Seminar  
3 sh (may not be repeated for credit)  

Prerequisite: HIS 3002  

The Junior Seminar acts as a ?capstone? course for history majors in  
their senior year. This course provides the student with an opportunity  
to refine and practice skills learned in previous courses and to produce  
a work of historical scholarship. Each student will conduct original  
research and write a paper based on primary and secondary sources.  
At the end of the semester the student will give an oral presentation.  

HIS 3948 Service Learning Field Study II  
1-3 sh (may be repeated for up to 4 sh of credit)  

Placement in community agency or other social organizational setting  
related to field of study. Supervision by faculty and agency. Students  
and faculty "customize" courses to fit a full range of services that  
are available in the setting. Student must be able to draw correlation  
between the discipline and field study. Journal and reflective  
experience paper are required. With the agreement of the student's  
faculty sponsor, a minimum of 4-6 hours per week must be done at the  
field site per semester hour of credit. Permission is required.  

HIS 4066 Local History  
3 sh (may not be repeated for credit)  

Introduction to theory, methodology, and application of local history.  
Required attendance on field trips to local historical archives,  
museums, and sites.  

HIS 4072 Oral and Community History  
3 sh (may not be repeated for credit)  

Introduces students to the discipline of oral history and to demonstrate  
the techniques in which oral history is used to address the history,  
structure, function, and development of communities. Offered  
concurrently with HIS 5077; graduate students will be assigned  
additional work.  

HIS 4284 Maritime History  
3 sh (may not be repeated for credit)  

Survey of impact of oceans, rivers and other bodies of water upon  
development of mankind. Focus on settlement in maritime  
areas, maritime commerce, exploration, military and naval history,  
social intellectual and other activities and developments impacted or  
influenced by the sea.  

HIS 4316 Women in the Atlantic World  
3 sh (may not be repeated for credit)  

Examines the Atlantic World through the experiences of African,  
European, and American Women. Explores how women fit within  
the continuously evolving multicultural setting of the sixteenth,  
seventeenth, and eighteenth centuries. Meets Multicultural  
Requirement.  

HIS 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

HIS 4955 Overseas and Field Study in History  
1-6 sh (may not be repeated for credit)  

Supervised independent study in historical field research or study in  
the United States or overseas. Studies include, but are not restricted  
to, foreign research, supervised visitation and analytical observation of  
historical sites, participation in foreign university exchange programs.  
Permission is required.  

HIS 5059 Graduate Methods  
3 sh (may not be repeated for credit)  

Research and preparation for writing theses and graduate papers.  

HIS 5077 Oral and Community History  
3 sh (may not be repeated for credit)  

Introduces students to the discipline of oral history and to demonstrate  
the techniques in which oral history is used to address the history,  
structure, function, and development of communities. Offered  
concurrently with HIS 4072; graduate students will be assigned  
additional work.  

HIS 5082 Introduction to Archival Management  
3 sh (may not be repeated for credit)  

Provides an introduction to the basic theories, methodologies, and  
archival practices of appraisal, acquisition, arrangement, description,  
preservation, and reference services for historical records and  
archives.
HIS 5087 Advanced Museology  
3 sh (may not be repeated for credit)  
Historical museum operation: philosophy, administration, ethics, and public responsibility.

HIS 5515 History of Architecture  
3 sh (may not be repeated for credit)  
Examines the development of European architecture as a basis for understanding trends in American architecture from the colonial era to the twentieth century. Introduces the professional aspects of building and construction along with materials and techniques in building restoration and renovation.

HIS 6055 Public History Methodology  
3 sh (may not be repeated for credit)  
Public History practice and methodology focusing on community history, museology, policy history, environmental history, and media history.

HIS 6056 Graduate History Practicum  
1-6 sh (may not be repeated for credit)  
Supervised Graduate History experience in an institution or agency such as local, state or national museum; archive; historic preservation site; oral history program; historic district; or agency involved with historic film documentary and tourism. 300 hours minimum. Permission is required. Graded on satisfactory / unsatisfactory basis only.

HIS 6083 Historic and Heritage Preservation Seminar  
3 sh (may not be repeated for credit)  
Examines the evolution and theory of the historic preservation movement in the United States and the various methodologies associated with preservation and cultural resources management activities in the government and private sectors.

HIS 6285 Maritime History  
3 sh (may not be repeated for credit)  
Survey of impact of oceans, rivers, and other bodies of water upon the development of mankind. Focuses on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

HIS 6356 Modern Military Leaders  
3 sh (may not be repeated for credit)  
This course will examine the military leaders who have significantly affected various conflicts and pertinent developments in the modern age.

HIS 6904 Directed Readings  
1-3 sh (may not be repeated for credit)  
Permission is required.

HIS 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

HIS 6911 Master's Research  
1-3 sh (may not be repeated for credit)  
Permission is required.

HIS 6956 Advanced Overseas and Field Study in History  
1-6 sh (may not be repeated for credit)  
Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

HIS 6971 Thesis  
1-6 sh (may not be repeated for credit)  
Graded on satisfactory / unsatisfactory basis only. Permission is required.

**GENERAL BUSINESS Courses**

GEB 1011 Introduction to Business  
3 sh (may not be repeated for credit)  
Provides in-depth coverage of all aspects of business by presenting an integrated and balanced review of the external and internal forces that comprise business and economic systems. Intended primarily for freshmen/sophomores to assist the student's selection of a business career or business major. (General Studies Course: SS / SOC).

GEB 3004 Career Strategies  
2 sh (may not be repeated for credit)  
Focuses on students' transition from college to the next step out of college. The mechanics of the job search and preparation for life after college will be discussed. Students will learn proper resume and professional correspondence development, interviewing scenarios, practice the fine art of networking, and develop a job search plan. Other topics such as business etiquette and dress, alternative career paths, and personal financial management/budgets will be discussed. Graded on a satisfactory / unsatisfactory basis only.

GEB 3032 Business Foundations for Non-Business Majors  
3 sh (may not be repeated for credit)  
Provides non-business students a foundation in the functional areas of management, marketing, finance, accounting and economics. Designed to provide students with a knowledge base that will give access to a broad range of upper level business courses. Available only to non-business majors.

GEB 3213 Writing for Business: Theory and Practice  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1101 AND ENC 1102  
Augments the basics of business writing while reviewing the various kinds of written business correspondence. Students are expected to integrate ethical decision making skills, word processing skills, grammar and writing skills, and analytical thinking skills into the content. Students must be able to determine solutions to problem based exercises. Team assignments and oral presentations may relate to student's discipline. (Gordon Rule Course: Wrtg).
GEB 3453 Business Ethics and Stakeholder Management
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND ECO 2023 AND MAN 3025
Managers are confronted with increasingly complex environments and face challenges trying to balance economic, legal, and ethical responsibilities vis-a-vis the stakeholder groups with which they interact. This course investigates the spectrum of business ethics and social responsibility issues that managers face in today's organizations. Course will be grounded in contemporary events and addresses these challenges from an individual and a managerial perspective.

GEB 4361 International Business
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND MAN 3025 AND MAR 3023
Introduces students to the complexities of conducting business on a global scale. Businesses typically develop in a domestic setting and then expand into international commerce. Focuses on the necessary adaptations of business practices for success in global markets. Offered concurrently with GEB 5365; graduate students will be assigned additional work. Meets Multicultural requirement.

GEB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GEB 4942 Internship Pensacola: Professional Development Seminar
3 sh (may not be repeated for credit)
Taken in conjunction with an internship. Designed to enhance the internship experience by presenting topics to help students succeed in an internship and career. Seminar format includes discussion of readings, oral presentations, group discussions, role-playing, and in-class reflections. Guest speakers will present in their areas of expertise. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

GEB 5509 Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit Organi
1.5 sh (may not be repeated for credit)
Prerequisite: GEB 5872
Explores the application of generally accepted accounting principles (GAAP) to Not-for-Profit Organizations (NPO). Analysis of actual NPO financial statements is covered. Students will be exposed to IRS Form 990 and required to compare and contrast the Form presented in the textbook with the latest version of Form 990 released in 2009. Permission is required.

GEB 5870 MBA Foundations: e-Business Systems
1.5 sh (may be repeated for up to 3 sh of credit)
A course in the Accelerated MBA Foundations Series in which students will gain an understanding of the principles of e-Business systems planning, development, and implementation. The overall objective is to provide a common foundation composed of the fundamental concepts required for the use and application of systems and technologies found in the e-Business environment. Permission is required.

GEB 5871 MBA Foundations: Managerial Economics
1.5 sh (may be repeated for up to 3 sh of credit)
A course in the Accelerated MBA Foundations Series in which students will gain an understanding of basic economics. Special emphasis will be placed on the determinants of supply and demand and the desirable properties of a competitive equilibrium; followed by the undesirable properties of markets with a monopoly and with externalities. Permission is required.

GEB 5872 MBA Foundations: Financial Management I
1.5 sh (may be repeated for up to 3 sh of credit)
A course in the Accelerated MBA Foundations Series in which students are introduced to the accounting process of analyzing, measuring, and reporting business activity. Explores the precise language, assumptions, concepts, principles, and logic patterns inherent in the analysis and measurement of business activity. Describes the form and content of major financial statements. Briefly introduces the recording and reporting process used by accounting systems and examines basic financial reporting issues.

GEB 5873 MBA Foundations: Financial Management II
1.5 sh (may be repeated for up to 3 sh of credit)
A course in the Accelerated MBA Foundations Series in which students have an understanding of financial accounting are introduced to the business relationships that exist between the generation and use of financial information. Includes the role of accounting in measuring financial performance, an overview of financial management, keys to understanding financial information via financial ratio analysis, effective use of financial analysis, and a brief introduction to the time value of money.

GEB 5874 MBA Foundations: Financial Management III
1.5 sh (may be repeated for up to 3 sh of credit)
A course in the Accelerated MBA Foundations Series in which students with an understanding of financial analysis are introduced to financial valuation and decision making tools that are used by managers and owner/managers of business organizations. The three foundation concepts covered are the Time Value of Money, the Risk-Return Relationship, and the use of Incremental After-Tax Cash Flows. Provides a theoretical understanding and a practical application in financial decision-making. Permission is required.

GEB 5875 MBA Foundations: Management Skills and Applications
1.5 sh (may be repeated for up to 3 sh of credit)
Covers the historical evolution of management, organizational design, motivation, team building, leadership, change management, culture, strategic planning, and critical implementation/control elements critical to successful management and strategy. Social responsibility, ethics, globalization, and futures are also stressed.

GEB 5876 MBA Foundations: Marketing Management
1.5 sh (may be repeated for up to 3 sh of credit)
A course in the Accelerated MBA Foundations Series in which students are introduced to foundational concepts of marketing management processes. Provides students with intensive exposure to the basic philosophy, concepts, and knowledge common to effective marketing management.
GEB 5879 MBA Foundations: Business Analytics
1.5 sh (may not be repeated for credit)
Business requires the application of a variety of analytical tools. Integrates several key analytical tools into a specific business decision framework that focuses on the interrelationship of these tools as they are used in business decisions. After an on-line review/introduction of basic algebraic and financial equations, combines the concepts of time value of money, descriptive statistics, production functions, correlation, simple regression and specifically applied calculus into a decision-making framework. This framework will serve as a foundation for analysis in subsequent courses and create a model for considering risk adjusted financial consequences of future business decisions. Permission is required.

GEB 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GEB 5930 Information Resources and Industry Analysis
1.5 sh (may not be repeated for credit)
Provides the background for beginning the MBA Portfolio. Gives introduction to information resources available to perform business problem analysis. Students learn to prepare a thorough analysis of their Portfolio industry.

GEB 6116 Venture Development
3 sh (may not be repeated for credit)
Students learn how to develop a start-up business. Includes constructing a board of directors, adding managers for key functions, reaching revenue targets and ultimately going public.

GEB 6118 New Ventures
3 sh (may not be repeated for credit)
Students learn how to start a new business. They develop a list of potential opportunities, evaluate the opportunities and learn how to seek seed capital (through the elevator speech and the business plan) with an eye toward the profitability horizon.

GEB 6895 Business and Public Policy
3 sh (may not be repeated for credit)
Develops expertise in the use of a set of tools to analyze the effect of economic, regulatory and tax policies (external environment) on the business environment and the conduct of business in domestic and international markets. Ethical implications of business response to these environments are also considered.

GEB 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GENERAL OCEANOGRAPHY Courses
OCE 3007 Concepts of Oceanography and Marine Biology
3 sh (may be repeated for up to sh of credit)
Prerequisite: BSC 2010/L
This course is an examination of the principal ecosystems of the world’s oceans, emphasizing the biotic and abiotic factors that contribute to the distribution of marine organisms. This course will focus on ocean literacy: awareness and understanding of the fundamental concepts about the history, function, contents, and utilization of the ocean. Emphasis will be placed on marine environmental issues and climate change.

OCE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

OCE 4265 Remote Sensing of Oceans
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311
Provides a foundation in cartographic and remote sensing principles, and practical experience with remote sensing applications as they relate to the world’s oceans. It examines basic concepts of electromagnetic radiation and its interaction with earth. Remotely sensed images from sensors such as SeaWiFS, AVHRR, and Topex/Poseidon will be discussed. Exercises will cover ocean color, sea surface temperature altimetry, and sea ice.

OCE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

OCE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

OCE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GEOGRAPHIC INFORM SYST Courses
GIS 3015 Cartographic Skills
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L
Co-requisite: GIS 3015L
Designed to teach students the basics of maps, including map projections, datums, grid systems, map interpretations, elements of map design, and basic field mapping. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 3100 and GIS 3015.

GIS 3015L Cartographic Skills Lab
0 sh (may not be repeated for credit)
Co-requisite: GIS 3015
Corresponding lab for Cartographic Skills.

GIS 4035 Photo Interpretation and Remote Sensing
4 sh (may not be repeated for credit)
Prerequisite: GIS 3015/L
Co-requisite: GIS 4035L
Applied skills emphasizing the fundamentals of aerial photograph interpretation and basics of multiband spectral reconnaissance of the environment-multispectral photography, infrared, microwave scanning and multifrequency radar systems. Application includes their uses in the study of cultural and biophysical phenomena. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 4131 and GIS 4035.
GIS 4035L Photo Interpretation and Remote Sensing Lab
0 sh (may not be repeated for credit)
Co-requisite: GIS 4035

Corresponding lab for Photo Interpretation and Remote Sensing.

GIS 4036 Applications in Remote Sensing
3 sh (may not be repeated for credit)
Prerequisite: GIS 4035/L

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 5039; graduate students will be assigned additional work. Permission is required.

GIS 4043 Geographic Information Systems
3 sh (may not be repeated for credit)
Co-requisite: GIS 4043

Spatial database will be queried to solve spatial problems, analyze related attributes, and produce computerized cartographic output. Examines spatial data structures, data acquisition, processing, management, manipulation, and analysis for interdisciplinary applications and research. Permission is required. Material and Supply Fee will be assessed for corresponding lab. Credit cannot be received for both GIS 4043 and GEO 4151.

GIS 4043L GIS Laboratory
1 sh (may not be repeated for credit)
Co-requisite: GIS 4043

Lab correlating with GIS 4043. Intended to be a fundamental lab that provides hands-on experience operating a GIS. Material and Supply fee will be assessed.

GIS 4048 Applications in Geographic Information Systems
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043/L

The application of GIS methods and techniques in solving practical problems. A generic process for applying GIS techniques in problem solving is introduced, and several case studies of GIS applications in environmental and social domains will be analyzed. Offered concurrently with GIS 5100; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4048 and GEO 4152.

GIS 4071 Methods and Techniques in Environmental Resource Management and Planning
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043/L

Tools, methods, and techniques employed in the study of environmental impact and resource management. Research fundamentals studied and applied to environmental problems such as land use, environmental impact studies, Florida's development of regional impact, resource evaluation, and other topics. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4071 and GEO 4373.

GIS 4102 GIS Programming
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043/L

Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 5103; graduate students will be assigned additional work. Permission required. Credit may not be received in both GIS 4102 and GIS 5103.

GIS 4260 GIS Applications for Archaeology
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043/L

This course will serve as an introduction to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in online GIS Certificate Program.

GIS 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GIS 4930 Special Topics in Geographic Information Science
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GIS 4043/L

Focuses on various topics and cutting-edge techniques in Geographic Information Science (GIS), both in theory and in practice. Offered concurrently with GIS 5935; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed.

GIS 4944 GIS Internship
1-3 sh (may not be repeated for credit)
Prerequisite: GIS 4043/L

Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational or other environmental organizations. Offered concurrently with GIS 5945; graduate students will be assigned additional work. Permission is required.

GIS 5027 Aerial Photography and Remote Sensing
4 sh (may not be repeated for credit)
Co-requisite: GIS 5027L

This course emphasizes the fundamentals of aerial photography and digital processing of satellite images. In the first part of the course, characteristics of aerial photographs, such as scale and distortion, are discussed. Criteria used in the interpretation of aerial photographs are introduced. In the second part of the course the physical and technical principles of digital satellite remote sensing are explained. This course is built on basic concepts established in introductory Earth Science and Cartography courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Graduate students will be assigned additional work.
GIS 5027L Aerial Photography and Remote Sensing Lab
0 sh (may not be repeated for credit)
Co-requisite: GIS 5027

Concepts learned in associated lecture will be applied in this lab. Interpretation of physical and human features will be carried out on real-world aerial photographs. Digital satellite images will be processed, analyzed and interpreted in lab using digital image processing software. The software will be introduced in lecture and lab. This course is built on basic concepts established in introductory Earth Science and Cartography courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Graduate students will be assigned additional work.

GIS 5039 Applications in Remote Sensing
3 sh (may not be repeated for credit)

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 4036; graduate students will be assigned additional work. Material and supply fee will be assessed. Permission is required. Credit cannot be received for both GIS 5039 and GEO 5139.

GIS 5050 Geographic Information Systems
4 sh (may not be repeated for credit)
Co-requisite: GIS 5050L

This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. The applications of GIS are presented. Future issues for GIS and state-of-the-art technology are also discussed. Cross listed with GIS 4043; Graduate students will be assigned additional work.

GIS 5050L Geographic Information Systems Lab
0 sh (may not be repeated for credit)
Co-requisite: GIS 5050

This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. The applications of GIS are presented. Future issues for GIS and state-of-the-art technology are also discussed. Cross listed with GIS 4043L; Graduate students will be assigned additional work.

GIS 5100 Applications in Geographic Information Systems
3 sh (may not be repeated for credit)

The application of GIS methods and techniques in solving practical problems. A generic process for applying GIS techniques in problem solving is introduced, and several case studies of GIS applications in environmental and social domains will be analyzed. Offered concurrently with GIS 4048; graduate students will be assigned additional work. Material and supply fee will be assessed. Credit cannot be received for both GIS 5100 and GEO 5157.

GIS 5103 GIS Programming
3 sh (may not be repeated for credit)

Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 4102; graduate students will be assigned additional work. Permission is required. Credit may not be received in both GIS 5103 and GIS 4102.

GIS 5265 GIS Applications for Archaeology
3 sh (may not be repeated for credit)

This course will serve as an introduction to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in the online GIS Certificate program.

GIS 5935 Special Topics in Geographic Science
3 sh (may be repeated for up to 6 sh of credit)

Focuses on various topics and cutting-edge techniques in Geographic Information Science (GIS), both in theory and in practice. Offered concurrently with GIS 4930; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed.

GIS 5945 GIS Internship
1-3 sh (may not be repeated for credit)

Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational, or other environmental organizations. Offered concurrently with GIS 4944; graduate students will be assigned additional work. Permission is required.

GIS 6005 Communicating GIS
3 sh (may not be repeated for credit)

This course begins with the basic theory of graphic design, cartography, and map production and distribution. Students then learn to communicate specific types of spatial and analytical information through maps, written and oral explanations, graphs, tables, charts, and interactive web mapping applications. Course includes lecture, hands-on exercises, written reports, and a final presentation. Restricted to students majoring in MSA Geographic Information Systems specialization.

GIS 6110 Advanced Topics in Geographic Information Science
3 sh (may not be repeated for credit)

Relational Database Management Systems (RDBMS) and their function within Geographic Information Systems (GIS). Students will integrate RDBMS, Desktop GIS and the World Wide Web to produce an interactive spatial database served over the Internet. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 6110 and GEO 6159.
GIS 6555 Geographic Information Systems Management
3 sh (may not be repeated for credit)
Prerequisite: GIS 5935
This course provides practical information on the development, implementation, and operation of GIS programs and projects intended for both seasoned and aspiring GIS managers. The course focuses on planning and implementing GIS solutions for government agencies and contractors. The course combines lecture, discussion, and group exercises. An end of term project involves writing in response to real or hypothetical solicitations for a project that targets GIS tool development, implementation, and/or training to support management activities in local, regional, state, national, or international contexts. Offered Fall and Spring semesters. Restricted to students in MSA Geographic Information Systems specialization program.

GIS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GIS 6955 GIS Capstone
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GIS 6005 AND GIS 6110 AND GIS 6555
A final capstone experience for students who are nearing completion of their MSA (Geographic Information Systems specialization) program. In the first semester, students work with instructor guidance to identify and research their project client and topic, and write a background paper outlining previous research and related studies. In the second semester, students work in collaboration with local partners, faculty, or the student's current employer to develop a real-world GIS application. Working independently, students: communicate with project partners to identify project goals; acquire and prepare spatial data for GIS data analysis; communicate with project partners to assess progress; manage spatial data; and produce necessary outputs for presentation as part of a final report. This final project should affirm the student's ability to think critically and creatively, to solve practical problems, to make reasoned and ethical decisions, and to communicate effectively. The capstone course serves as documentation of the student's personal mastery of professional competencies. It is designed to be an integrative experience for MSA students in the GIS specialization. Students will submit a Capstone Course Approval Form and once approved, be permitted to register for this course. Course Restricted to students in the MSA GIS Program.

GEOGRAPHY: REGIONAL AREAS Courses

GEA 2000 Nations and Regions of the World
3 sh (may not be repeated for credit)
Regional treatment of the physical & cultural environments of the world. Interdependence of peoples and nations of the world will be stressed within the context of environmental attributes and shortcomings and human responses to environmental opportunities or limitations. (General Studies Course: SS / SOC) Meets Multicultural requirement.

GEA 4212 Geography of North America
3 sh (may not be repeated for credit)
Prerequisite: GEA 2000
A regional survey of the United States and Canada, with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 5214; graduate students will be assigned additional work.

GEA 4405 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Meets Multicultural requirement. Credit cannot be received for both GEA 4405 and GEA 4400.

GEA 4635 Geography of the Middle East
3 sh (may not be repeated for credit)
A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 5637; graduate students will be assigned additional work.

GEA 4730 Geography of Japan
3 sh (may not be repeated for credit)
A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

GEA 5214 Geography of North America
3 sh (may not be repeated for credit)
A regional survey of the United States and Canada with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 4212; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEOGRAPHY: REGIONAL AREAS Courses

GEA 4212 Geography of North America
3 sh (may not be repeated for credit)
A regional survey of the United States and Canada, with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 5214; graduate students will be assigned additional work.

GEA 4405 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Meets Multicultural requirement. Credit cannot be received for both GEA 4405 and GEA 4400.

GEA 4635 Geography of the Middle East
3 sh (may not be repeated for credit)
A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 5637; graduate students will be assigned additional work.

GEA 4730 Geography of Japan
3 sh (may not be repeated for credit)
A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

GEA 5214 Geography of North America
3 sh (may not be repeated for credit)
A regional survey of the United States and Canada with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 4212; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEOGRAPHY: REGIONAL AREAS Courses

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3 sh (may not be repeated for credit)
A regional survey of the United States and Canada, with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 5214; graduate students will be assigned additional work.

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A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Meets Multicultural requirement. Credit cannot be received for both GEA 4405 and GEA 4400.

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A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

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A regional survey of the United States and Canada with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 4212; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America
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A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEOGRAPHY: REGIONAL AREAS Courses

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A regional survey of the United States and Canada, with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 5214; graduate students will be assigned additional work.

GEA 4405 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Meets Multicultural requirement. Credit cannot be received for both GEA 4405 and GEA 4400.

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A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 5637; graduate students will be assigned additional work.

GEA 4730 Geography of Japan
3 sh (may not be repeated for credit)
A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

GEA 5214 Geography of North America
3 sh (may not be repeated for credit)
A regional survey of the United States and Canada with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 4212; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.
GEOGRAPHY: SYSTEMATIC Courses

GEO 1200 Physical Geography
4 sh (may not be repeated for credit)
Co-requisite: GEO 1200L
Relationship between natural environment and man. Weather, climate, soils, biogeography and land forms. Physical earth treated so that the student gains appreciation of man's place and activities within his/her environment. (General Studies Course: NS / LEC) Material and supply fee will be assessed for corresponding lab.

GEO 1200L Physical Geography Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 1200

GEO 2330 Environmental Science
3 sh (may not be repeated for credit)
Study of interrelationships between human activity and the natural systems in our environment. Interdisciplinary approach to the study of natural processes and how they affect and are affected by human activity. Particular emphasis will be given to examination of the ways in which science offers solutions to the pressure human activity places on natural resources. (General Studies Course: NS / LEC).

GEO 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GEO 3210 Geomorphology
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L
Description of landforms and landscapes on the Earth's surface, along with a systematic analysis of the geomorphic processes that produce them. Emphasis is placed on the climatic and geologic controls on landscape evolution. Material and supply fee will be assessed for corresponding lab.

GEO 3210L Geomorphology Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 3210

GEO 3250 Weather and Climate
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L
Co-requisite: GEO 3250L
Nature of individual weather elements, their measurements, and analysis over time and space. Analysis of global climate emphasizing control factors, resulting areal patterns and climatic classifications. Emphasis upon North American weather and climate patterns, microclimates, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

GEO 3250L Weather and Climate Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 3250

GEO 3260 Geography of Soils
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200/L OR GLY 2010/L) AND CHM 2045/L
Co-requisite: GEO 3260L

GEO 3260L Geography of Soils Laboratory
1 sh (may not be repeated for credit)
Co-requisite: GEO 3260

GEO 3372 Conservation of Natural Resources
3 sh (may not be repeated for credit)
Nature and extent of mineral, soil, water, forest and wildlife resources and their conservation, with particular emphasis on the United States against a general background of world resources. Conservation philosophies, practices, and their geographic bases. Occasional field trips may be arranged.

GEO 3421 Cultural Geography
3 sh (may not be repeated for credit)
Sociocultural distributions with emphases on social regions, spatial behavior and cultural landscapes. Topics include population, spatial diffusion and processes, race, language, religion, political organization, methods of livelihood, settlement patterns, and the regional distribution of the elements over the earth. Meets multicultural requirement.

GEO 3471 Geography of World Affairs
3 sh (may not be repeated for credit)
Geographic study of world events; environmental influences on events; impact of events on environment; ramifications of events on social, economic, political, physical and psychological worlds. Meets Multicultural requirement. Credit cannot be received for both GEO 3471 and GEO 3470.

GEO 3502 Economic Geography
3 sh (may not be repeated for credit)
Analysis of patterns, linkages and flows attendant to the production, consumption and distribution of goods and services. Production and consumption are correlated with markets which are analyzed in terms of population needs, desires and spending power.

GEO 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
GEO 4164 Geostatistics  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043 AND STA 2023  
Co-requisite: GIS 4043L  
Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 5165; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 4221 Coastal Morphology and Processes  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 1200 OR GLY 2010/L  
Co-requisite: GEO 4221L  
An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies and environmental concerns. Offered concurrently with GEO 5225; graduate students will be assigned additional work.

GEO 4221L Coastal Morphology and Processes Laboratory  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 4221L  
Laboratory correlating with GEO 4221. Offered concurrently with GEO 5225L; graduate students will be assigned additional work. Material and supply fees will be assessed.

GEO 4251 Advanced Climatology and Climate Change  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 3250  
A survey of Earth's climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO 5256 Advanced Climatology and Climate Change; graduate students will be assigned additional work.

GEO 4280 Basic Hydrology  
4 sh (may not be repeated for credit)  
Prerequisite: GEO 1200/L OR GLY 2010/L  
Co-requisite: GEO 4280L  
Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. Material and supply fee will be assessed for corresponding lab.

GEO 4280L Basic Hydrology Lab  
0 sh (may not be repeated for credit)  
Co-requisite: GEO 4280  
Corresponding Lab for Basic Hydrology.

GEO 4332 Senior Seminar  
1 sh (may be repeated for up to 2 sh of credit)  
Seminar in which timely topics pertaining to the environment are discussed and researched. Emphasis is upon professional presentation of research material. Upper level standing is required.

GEO 4333 Seminar in Environmental Issues  
3 sh (may not be repeated for credit)  
Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 5930; graduate students will be assigned additional work.

GEO 4376 Landscape Ecology  
3 sh (may not be repeated for credit)  
Prerequisite: BOT 2010 OR GEO 1200/L OR GLY 2010/L  
Co-requisite: GEO 4376L  
A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 5378; graduate students will be assigned additional work.

GEO 4376L Landscape Ecology Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 4376L  
Laboratory section offered with existing Landscape Biogeography course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO5378L. Graduate students will be assigned additional work.

GEO 4801 Global Agricultural Sustainability  
3 sh (may not be repeated for credit)  
The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management.

GEO 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
GEO 5165 Geostatistics  
3 sh (may not be repeated for credit)  
Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 4164; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 5225 Coastal Morphology and Processes  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 1200 OR GLY 2010/L  
Co-requisite: GEO 4225L; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 5225L Coastal Morphology and Processes Laboratory  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 5225L  
Laboratory section offered with existing Landscape Biogeography course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO5378L. Graduate students will be assigned additional work.

GEO 5378 Landscape Ecology  
3 sh (may not be repeated for credit)  
The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management.

GEO 5378L Landscape Ecology Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 5378L  
Laboratory section offered with existing Landscape Biogeography course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO5378L. Graduate students will be assigned additional work.

GEO 5801 Global Agricultural Sustainability  
3 sh (may not be repeated for credit)  
The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management.
GEO 5225L Coastal Morphology and Processes Laboratory
1 sh (may not be repeated for credit)
Co-requisite: GEO 5225
Laboratory correlating with GEO 5225. Offered concurrently with GEO 4221L. Graduate students will be assigned additional work. Material and supply fee will be assessed.

GEO 5256 Advanced Climatology and Climate Change
3 sh (may not be repeated for credit)
A survey of Earth's climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in Global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO4XX3 (Advance Climatology); graduate students will be assigned additional work.

GEO 5289 Basic Hydrology
3 sh (may not be repeated for credit)
Co-requisite: GEO 5289L
This course focuses on the hydrologic cycle, with emphasis on surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Material and supply fee will be assessed for corresponding lab. Cross listed with GEO 4280; Graduate Students will be assigned additional work. Co-requisites: GEO 5289L.

GEO 5289L Basic Hydrology Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 5289
Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Material and supply fee will be assessed for corresponding lab.

GEO 5378 Landscape Ecology
3 sh (may not be repeated for credit)
Co-requisite: GEO 5378L
A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 4376; graduate students will be assigned additional work.

GEO 5378L Landscape Ecology Lab
1 sh (may not be repeated for credit)
Co-requisite: GEO 5378
Laboratory section offered with existing Landscape Ecology course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO4376L. (Landscape Ecology Lab); graduate students will be assigned additional work.

GEO 5805 Global Agricultural Sustainability
3 sh (may not be repeated for credit)
The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management. Graduate students will be assigned additional work. This course will be offered concurrently with GEO 4801.

GEO 5915 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GEO 5930 Seminar in Environmental Issues
3 sh (may not be repeated for credit)
Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 4333; graduate students will be assigned additional work.

GEO 6118 Research Design
3 sh (may not be repeated for credit)
Introduces non-thesis-track Master's students to the essentials of designing and executing a research project in the environmental sciences using the scientific method. Students will design and complete a research project.

GEO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

An overview of the disciplinary evolution of the geosciences, the prevailing paradigms and methodologies, and current and future directions in the field. The scientific method, grant proposals, and research publications will be examined in detail.

GEOLOGICAL OCEANOGRAPHY Courses

OCG 4050 Geological Oceanography
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311/L AND (GEO 1200/L OR GLY 2010/L)
The study of the morphology, formation, and evolution of ocean basins; of the sediments in coastal, shelf, and pelagic environments; and biogeochemical cycling. Includes paleoceanography and the sedimentary history of the ocean basins. Credit may not be receive in both OCG 4050 and OCG 4002.

GEOLOGY Courses

GLY 2010 Physical Geology
3 sh (may not be repeated for credit)
Material, structures, surface features of the earth and processes that have produced them. (General Studies Course: NS / LEC).

GLY 2010L Physical Geology Laboratory
1 sh (may not be repeated for credit)
Lab correlating with GLY 2010. (General Studies Course: NS / LAB) Material and supply fee will be assessed.
GLY 3031C Environmental Geology
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L
Discussion oriented study of the application of geology to the spectrum of interactions between people and their physical environment. Earth materials and processes are presented in reference to hazards and concerns that are created naturally and/or by human activities. Role of humans as geologic agents, resource conservation, ecosystem management, and the problems that result from upsetting the established equilibria of geologic systems are illustrated using case studies with emphasis on scenarios in Florida. Possible field trips. Material and Supply Fee will be assessed. Credit may not be earned in both GLY 3880C and GLY 3031C.

GLY 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GLY 4240 Geochemistry
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200/L OR GLY 2010/L) AND CHM 2045/L
Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 5246; graduate students will be assigned additional work.

GLY 4244 Biogeochemistry
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200/L OR GLY 2010/L) AND CHM 2045/L AND (BOT 2010/L OR BSC 1005/L OR ZOO 1010/L)
An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 5266; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GLY 5246 Geochemistry
3 sh (may not be repeated for credit)
Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 4240; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5266 Biogeochemistry
3 sh (may not be repeated for credit)
An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 4244; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GERMAN Courses

GER 1120C German I
4 sh (may not be repeated for credit)
For students with no knowledge of German or with fewer than two years of high school German. Lays a foundation for speaking, writing, and reading the language. One hour of lab work per week is required.

GER 1121C German II
4 sh (may not be repeated for credit)
Prerequisite: GER 1120C
Continuation of GER 1120C. One hour of lab work per week is required.

GER 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GER 2240 German Intermediate Composition and Conversation
3 sh (may not be repeated for credit)
This is an intermediate foreign language course intended for students who have completed German I and II. Students will expand and perfect their ability to speak, read, write and understand German and learn more about German culture.

GER 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GER 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GER 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GERONTOLOGY Courses

GEY 4001 Gerontology
3 sh (may not be repeated for credit)
Course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on knowledge learned from the course. Offered concurrently with GEY 5005; graduate students will be assigned additional work. Permission is required.

GEY 5005 Gerontology
3 sh (may not be repeated for credit)
This course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on the knowledge learned from this course. Offered concurrently with GEY 4001; graduate students will be assigned additional work. Permission is required.
GRAPHIC DESIGN Courses

GRA 2111C Principles of Graphic Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C
An overview of the formal elements of design, contextualized within a frame work that stresses experimentation, creativity, innovation, and expression. Products using Photoshop, Illustrator and InDesign are oriented toward commercial applications in print based media. Material and Supply Fee will be assessed.

GRA 2208C Typography
3 sh (may not be repeated for credit)
Prerequisite: GRA 2111C
This course is an examination of basic typography as a compositional tool. Students will explore the architecture of type from a single letterform to an entire page layout. Students will be introduced to the history of typography and explore concepts relating to contextualization of typographic form in relation to that history. This class will investigate issues of denotation and connotation, context and theme, graphic/image-type relationships, and/or expression through a refinement of the craft of typography.

GRA 3102C Graphic Design Studio I
3 sh (may not be repeated for credit)
Prerequisite: ART 2484C AND ART 2600C
This course focuses on the development and execution of a graphic design work. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture. This course varies by semester and instructor to cover some of the following depending upon the term: Poster Design and Digital Illustration, Branding and Identity Systems, Data Visualization and Information Design, and Packaging Design. Emphasis will be placed on expressive and creative communication through rough design.

GRA 3112C Graphic Design Studio II
3 sh (may not be repeated for up to 6 sh of credit)
Prerequisite: GRA 3102C
This course focuses on the refinement of student's problem-solving abilities through the advanced application of the design process. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture. This course varies by semester and instructor to cover some of the following depending upon the term: Poster Design and Digital Illustration, Branding and Identity Systems, Data Visualization and Information Design, and Packaging Design.

GRA 4930C Special Topics in Digital Media Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C
This course focuses on the refinement of student's problem-solving abilities through the advanced application of the design process. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture.

GRA 4940L Internship in Graphic Design
1-3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: ART 3618C AND GRA 3202C
On an "as available" basis, Graphic Design majors may request an internship by submitting written proposals to their advisor. Proposals must be approved by the advisor and sponsor. Junior or Senior status, 2.5 GPA overall, and a 3.0 GPA in Graphic Design is required. All internships include report on internship experience, including weekly journals, written reports and an oral presentation to department advisor. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

GRA 4950C Graphic Design Portfolio
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: ART 3618C AND GRA 3102C AND GRA 3202C AND GRA 4112C
This course focuses on the development and execution of a graphic design and digital medial portfolio. Emphasis will be placed on printed and digital portfolios, including an online format. Topics include creation of personal business packet and self-promotion pieces. Interview and job search skills will be discussed and developed. Individual assignments will be given to strengthen and round out each portfolio.

HEALTH LEISURE PHYS EDUC Courses

HLP 2081 Health, Nutrition and Physical Fitness
3 sh (may not be repeated for credit)
Principles of exercise and nutrition and their roles in maintenance of good health. Students will be given the opportunity to develop their individual aerobic fitness program. An introductory level course.

HLP 3300 Organization and Administration of Professional Programs
3 sh (may not be repeated for credit)
Analysis of leadership principles related to study of man and human performance related to health, leisure and sports activities.

HLP 3510 Measurement and Evaluation in Health, Leisure, and Sports
3 sh (may not be repeated for credit)
Prerequisite: APK 3310/L
Application of measurement and evaluation principles to study of man and human performance related to health, leisure and sports activities. Instructional designs of physical fitness, sport skills and knowledge testing are examined.

HLP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HLP 4722 Health/Physical Education for Elementary School Teachers
3 sh (may not be repeated for credit)
Knowledge, attitudes and skills necessary for balanced programs of physical education and health education for grades K-8.
HLP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HLP 4922 Field Experience
1-3 sh (may not be repeated for credit)

Placement in an appropriate setting for the purpose of learning more about a specific field. Student will observe and participate in a wide range of activities as determined by instructor and agency supervisor. Graded on satisfactory / unsatisfactory basis only. Permission is required.

HLP 4940 Internship
1-6 sh (may not be repeated for credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HLP 4941C Senior Capstone Experience in Exercise Science
1-6 sh (may not be repeated for credit)
Prerequisite: HLP 4922

As a capstone experience for Exercise Science students, this course will provide opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in an exercise science related field and by faculty academic support. Graded on a satisfactory / unsatisfactory basis only. Departmental permission will be required.

HLP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HLP 6535 Research Procedures
3 sh (may not be repeated for credit)

Research methodology, critical analyses and evaluation of current research, and design of a research proposal in the major field.

HLP 6595 Research Seminar
3 sh (may not be repeated for credit)

Development of a research design suitable for a thesis or research project in health, leisure or sports science.

HLP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HLP 6922 Field Experience
1-3 sh (may be repeated for up to 6 sh of credit)

Field experience in school or community agencies under faculty direction and on-the-job supervision. Graded on satisfactory / unsatisfactory basis only. Permission is required.

HLP 6940 Internship
3-6 sh (may not be repeated for credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HLP 6971 Thesis
1-6 sh (may not be repeated for credit)

Graded on a satisfactory / unsatisfactory basis only. Permission is required.

HEALTH SCIENCE Courses

HSC 2100 Personal Health
3 sh (may not be repeated for credit)

Provides information on personal health issues from which students may base current and future decisions regarding their health and wellness. To promote an environment where effective decision making skills can be acquired through structured group interaction.

HSC 2130 Sex & Booze: A Peer Health Education Course
3 sh (may not be repeated for credit)

Educates and trains students in assessing college life health issues and experiences among peers utilizing an active learning approach in order to educate college students on issues such as peer education, leadership, alcohol misuse/abuse prevention, sexual assault prevention, healthy relationships, and sexual health responsibility. Participation in the course will equip students with vital knowledge and skills needed for their experience as, and interactions with, college students. Students should also expand their abilities for developing and providing useful presentations and expertise in offering feedback and resources for issues affecting UWF peers. The material will help to build a team environment and leadership skills.

HSC 2577 Principles of Nutrition
3 sh (may not be repeated for credit)

The fundamentals of nutrition are explored, emphasizing the biochemical and physiological mechanisms of digestion, absorption, metabolic pathways, energy requirements, and nutritional status. It provides students with an understanding of nutrients and their roles in the body while examining current issues in food science. An emphasis is placed on promotion of growth and health by examining weight control, disease prevention, food safety, and planning a healthy diet.

HSC 3032 Foundations in Health Education
3 sh (may not be repeated for credit)

Explores the philosophy and principles that provide the foundations of health education as an academic discipline and as a profession. Emphasis will focus on health education in our society, theoretical basis, settings, ethical issues, current issues, marketing, planning and future outlook in the field.

HSC 3034 Advances in Health Sciences Technology
3 sh (may not be repeated for credit)

Introduces the student to current regional, state, national and international trends and issues in the health sciences. Lectures will cover recent topics in this area followed by class discussion of the topic. In addition, each student will be assigned a series of articles related to the topics that will be covered during the semester in lecture to stimulate and broaden class discussion.

HSC 3406C Advanced First Aid and Emergency Care
3 sh (may not be repeated for credit)

Study and practice of standard first aid procedures which are essential for survival in emergency and disastrous situations. Cardiopulmonary resuscitation method will be included. Red Cross certification will be available to students who meet current standards. Material and supply fee will be assessed.
HSC 3535 Introduction to Medical Terminology
3 sh (may not be repeated for credit)
This distance learning course is designed to familiarize students with the basics of vocabulary used in the medical and health professions. Students will employ a systematic, word-building approach to master the complex terminology of the medical field. The self-paced approach requires excellent time management skills, computer skills, and commitment by the student. The coursework will be presented through the textbook, with practice exercises and tests for each course unit will be submitted electronically. Working knowledge of how to use personal computers, including knowledge of word processing and Internet searching is required prior to this course. Credit may not be received in both HSC 3535 and HSC 3534.

HSC 3555 Pathophysiology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 1085 AND BSC 1086) OR PCB 4703
Disease as an abnormal biological process. Selected physiological processes and basic concepts of body response to pathology will be explored. Approach appropriate to students of nursing, allied health, medicine, and biology. Recommended prerequisite; one course in anatomy and physiology.

HSC 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HSC 4050 Health Sciences Research Seminar
3 sh (may not be repeated for credit)
Will center on discussions of contemporary research in the health sciences. The instructor will select key papers on a variety of recent advances in pharmaceuticals, surgical techniques and other areas of medical technology for discussion by students. At the beginning each student will be assigned a project which will include a written paper on a specific topic in health sciences research that they will present and defend in class.

HSC 4104 Health Aspects of Stress Management
3 sh (may not be repeated for credit)
A study of physiological, psychological, and sociological aspects of stress as related to overall health. Anger, fear, and depression and their underlying mechanisms related to the stress response on health and disease will be examined. Emphasis is on identification of stressors, methods of prevention and coping strategies. Group activities and individual assignments provide opportunities for personal analysis.

HSC 4120 Consumer Health Education
3 sh (may not be repeated for credit)
Enables students to make intelligent decisions about the health care marketplace. Basic information regarding health care products, services and consumer protection will be of central focus.

HSC 4133 Health Aspects of Human Sexuality
3 sh (may not be repeated for credit)
A study of physical, mental, emotional, social, and psychological phases of human sexuality as they are affected by male and female relationships. Emphasize a holistic perspective on sexuality. Lectures by the instructor and experts from the community will provide an overview of the major issues in sexuality. Assigned readings will provide detailed information. Group activities and individual assignments will provide opportunities for personal analysis and growth with regard to a wide variety of topics.

HSC 4143 Drugs in Society
3 sh (may not be repeated for credit)
Provides students with knowledge of the use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug use and abuse on personal and community health. Concepts of prevention, education and control will be covered. Material and Supply Fee will be assessed.

HSC 4211 Human Environmental Health
3 sh (may not be repeated for credit)
An online course with an overview of major environmental issues facing society at the dawn of the 21st century. Ecological concerns will be matched with specific elements related to personal and community health, emphasizing the interrelatedness of the two and conveying an awareness of how current environmental issues directly affect your own life.

HSC 4240 Changing Health Behaviors
3 sh (may not be repeated for credit)
Designed to acquaint students with a general theory of behavior, guide them through exercises for developing skills in self-analysis, and to provide information on how to achieve individual behavior change goals. Students will learn techniques for developing community-based health behavior change programs and employ coping skills for personal problem solving.

HSC 4404 Medical Disaster Management
3 sh (may not be repeated for credit)
Introduces students to facets of natural and technological disasters while integrating public health research designs and practices. Class lectures and discussions utilize recent and historical case studies as a basis for developing the critical thinking and leadership skills needed by healthcare professionals in crisis situations. International, domestic, and regional settings are addressed, as well as the social, economic, and political aspects of disaster planning, preparedness, and mitigation. Basic public health concepts and methodologies as they relate to course material. Permission is required.

HSC 4450 Epidemiology
3 sh (may not be repeated for credit)
A study of the factors determining and influencing the frequency, distribution, and causes of diseases and other events that impact the health and safety of the human population. Programs and strategies to prevent and control such events and diseases will be explored.

HSC 4511 Health Care Quality and Database Management
3 sh (may not be repeated for credit)
Emphasizes how to develop, deploy, and evaluate new tools to analyze clinical data resources. Special attention is given to improving health care quality and decision-making to address the needs of a clinical practice or administration. Case studies involving the development and assessment of databases for disease management and drug utilization will be covered. Students will learn how to collect, summarize, statistically analyze, present, and interpret data. Students will be training in the fundamentals of database design and information retrieval as they develop a working tool to address health care quality improvement. Finally, legal and ethical issues involving training, documentation, security, confidentiality, the use of informed consent, and regulatory requirements are addressed. Offered concurrently with HSC 5512; graduate students will be assigned additional work.
HSC 4551 Communicable and Degenerative Diseases
3 sh (may not be repeated for credit)
Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin, symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 5552; graduate students will be assigned additional work. Junior / Senior status required.

HSC 4572 Nutrition and Health
3 sh (may not be repeated for credit)
Prerequisite: HLP 2081 AND HSC 2577
A study of the principles of nutrition science as applied to daily living. Topics include the six major nutrients; carbohydrates, lipids, proteins, vitamins, minerals, and water. Course also examines nutrition standards, Dietary Guidelines, digestive process, energy balance, nutrition controversies, and health educator’s scope of practice related to nutrition education and counseling. Previous courses in nutrition, anatomy, physiology, or biology are highly recommended. Material and Supply Fee will be assessed.

HSC 4581 Health Promotion and Planning
3 sh (may not be repeated for credit)
Practical application of theory, models, principles, and practices of health promotion, planning, and implementation. Experiential activity includes creating a health promotion program incorporating: developing and administering a needs assessment, applying a behavioral and environmental assessment, writing goals and measurable objectives, marketing the program, presenting the health program, evaluating the program.

HSC 4583 Theoretical Foundations of Health Promotion and Planning
3 sh (may not be repeated for credit)
A comprehensive overview and analysis of theory, models, principles, and practices of health education and promotion planning and implementation. Topics for discussion include health promotion and a framework for planning, social assessment and participatory planning, epidemiological assessment, behavioral and environmental assessment, educational and ecological assessment, administrative and policy assessment, evaluation and applications in community, occupational, school, and health care settings.

HSC 4633 Current Issues in School-Community Health
3 sh (may not be repeated for credit)
A study of contemporary health issues affecting schools and communities. Emphasis will be placed on environment, medical care, lifestyle factors, and communicable diseases.

HSC 4658 End-of-Life Ethics
3 sh (may not be repeated for credit)
An examination of key issues and cases in end-of-life ethics. Credit may not be received in both HSC 4658 and HSC 4654.

HSC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HSC 4910 Senior Capstone Experience in Community Health Education
1-6 sh (may not be repeated for credit)
Prerequisite: HSC 4581
This capstone experience for Community Health Education majors provides opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in a community health education. Departmental permission will be required.

HSC 4940 Internship
1-6 sh (may not be repeated for credit)
Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HSC 5205 Public Health Preparedness
3 sh (may not be repeated for credit)
Introduces types of disasters, the national incident management systems and its role in disaster planning, prevention, and mitigation. The structure and organization of medical disaster response, exercises, emergency communication, rapid health assessment, surveillance, and triage. Introduces the public health role in responding to chemical, biological, disease, radiological, nuclear, and explosive incidents. Also covers social/mental health, environmental services, ethical, and legal issues in disasters. Introduces evaluation methods for assessing the medical and public health responses.

HSC 5506 Advanced Epidemiology
3 sh (may not be repeated for credit)
Examines the use of epidemiological procedures as they apply to community health planning. Emphasis is placed on the application of epidemiological concepts in determining the effectiveness of current and potential medical and public health interventions.

HSC 5552 Communicable and Degenerative Diseases
3 sh (may not be repeated for credit)
Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 4551; graduate students are assigned additional work. Upper division or graduate status is required.

HSC 5602 Life, Illness and Death
3 sh (may not be repeated for credit)
An examination of the worldviews of patients and health care providers which influence how both confront illness, suffering, and death. Permission is required.

HSC 5636 Current Issues in Medicine
3 sh (may not be repeated for credit)
An examination of issues that arise in conceptualizing the aims and practices of medicine. Some focus on the health care practitioner’s experience with difficult decisions regarding patient care and self-care. Permission is required.
HSC 5716 Planning, Implementing, and Evaluating of Health Programs
3 sh (may not be repeated for credit)
This course is designed to prepare the graduate student with the theoretical and practical perspectives of community health program planning, implementation, and evaluation. Emphasis will be placed on the major components of any planning model; needs assessment; priority setting; problem statement; program goals and objectives; program implementation; program evaluation; and budgeting. Additional topics include: ethical issues related to community health program planning and evaluation; influence of diversity on interventions and grant writing. Graduate standing or permission from Health Education faculty for non-graduate students is required.

HSC 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HSC 6012 Professional Development in Biomedical/Pharmaceutical Sciences
3 sh (may not be repeated for credit)
A capstone course for the specialization. Exposes students to the basic professional skills required of administrators in the biomedical and pharmaceutical industries. Credit may not be received in both HSC 6012 and HSC 6000.

HSC 6037 Philosophical Foundations of Health Education
3 sh (may not be repeated for credit)
High-order philosophical, ethical, and theoretical foundations of the professional practice of health education are explored. Students will be expected to develop their own philosophical, ethical and theoretical approach(es) to the field after becoming familiar with the peer-reviewed literature related to the health education field.

HSC 6135 Health Guidance and Cultural Competency
3 sh (may not be repeated for credit)
The course examines the roles of health educators, health administrators, and other health professionals in providing culturally competent health guidance to consumers of health care. The course provides insight into the history of health care, examination of the culture’s role in health and healing, current issues, and challenges facing health care in contemporary society. Students will be challenged to integrate research and theory of health communication as they apply concepts related to health communication and cultural competency.

HSC 6206 Community Health Delivery Systems
3 sh (may not be repeated for credit)
This course explores health care delivery in the United States. Examines health care systems in other countries along with covering topics including American beliefs and values related to health care delivery, evolution of health services in the United States, health service professions, influence of medical technology, and the financing of health services.

HSC 6226 Current Issues in Worksite Wellness
3 sh (may not be repeated for credit)
Foundational course for developing, implementing, and evaluating Worksite Health Promotion (WHP) programs. Current issues related to worksite wellness and health promotion will be discussed and reviewed in detail. Topics include: history of WHP; the health/productivity/cost link; and WHP program framework. Worksites employee issues will be explored including: employee health needs, employee health interests, employee health interests, and accessing employee data. Worksites program goals, policy, implementation, participation generation, and evaluation will be analyzed. Management hierarchy and organizational values will be assessed in relation to building a healthy worksite environment. Funding and resource considerations will be evaluated.

HSC 6528 Strategies for Prevention of Infectious Disease
3 sh (may not be repeated for credit)
A comprehensive study of the tools for the control of infectious diseases and the application of these tools in public health programs to achieve an epidemiologic impact on disease reduction, elimination or eradication.

HSC 6556 Clinical Ethics Grand Rounds
3 sh (may not be repeated for credit)
Students will participate in grand rounds with specified health care professionals. In response to various cases presented at ethics grand rounds, students will participate in mock round table bioethics consultations and committees. A clinical ethics case study and permission is required.

HSC 6666 Health Education and Interactive Technology
3 sh (may not be repeated for credit)
Courses offers health educators and health care administrations various perspectives relating to the development and implementation of effective interactive computing technology. Program development and interventions are aimed at improving various health-related outcomes such as promoting an individual’s involvement in their personal health care, quality of life, adherence to health promoting strategies, and disease management. Above issues are also addressed within a community setting.
HSA 4190. Provides students with an understanding of social marketing definitions, theory, and techniques. Social marketing systematically applies consumer marketing tools to achieve a consumer-oriented approach to health promotion programming. Students will learn how to segment, reach, and influence target audiences while examining issues such as product planning, pricing, communication, distribution, and market research. As part of this course, students will apply marketing principles to design program messages and materials for behavior change initiatives.

HSA 4192. Introduction to Medical Informatics
3 sh (may not be repeated for credit)
Provides an overview of the multifaceted, interdisciplinary nature of medical informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Working knowledge of medical terminology and acceptance into the Medical Informatics Certificate Program also included. Offered concurrently with HSA 5197; graduate students will be assigned additional work. Credit may not be received in both HSA 4192 and HSA 4190.

HSA 4193. Electronic Clinical Record Systems
3 sh (may not be repeated for credit)
Explores the use and evaluation of commercially available electronic medical record systems. Health care workflow issues will be addressed in the context of impacts of billing, collections, HIPAA, and scheduling in a health care practice. Offered concurrently with HSA 5198; graduate students will be assigned additional work.

HSA 4394. Advanced Topics in Healthcare Information Technology
3 sh (may not be repeated for credit)
This online course serves as an introduction to health information technology. This course provides a basic overview of data architecture; data organization, representation and structure; and the fundamentals of data communication. This course also provides a large breadth of terminology used in the computer industry. Offered concurrently with HSA 5196; graduate students will be assigned additional work.

HSA 4430. Health Economics
3 sh (may not be repeated for credit)
Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 5436; graduate students will be assigned additional work.

HSA 4431. Business Analysis and Decision Making in Health Care
3 sh (may not be repeated for credit)
Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 5438; graduate students will be assigned additional work.

HSA 5115. Health Care Policy and Administration
3 sh (may not be repeated for credit)
Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 5115; graduate students will be assigned additional work.

HSA 5196. Advanced Topics in Healthcare Information Technology
3 sh (may not be repeated for credit)
This online course serves as an introduction to health information technology. This course provides a basic overview of data architecture; data organization, representation and structure; and the fundamentals of data communication. This course also provides a large breadth of terminology used in the computer industry. Offered concurrently with HSA 4394. Graduate students will be assigned additional work.

HSA 5197. Introduction to Medical Informatics
3 sh (may not be repeated for credit)
Provides an overview of the multifaceted, interdisciplinary nature of medical informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Working knowledge of medical terminology and acceptance into the Medical Informatics Certificate Program also included. Offered concurrently with HSA 5197; graduate students will be assigned additional work. Credit may not be received in both HSA 4192 and HSA 4190.
HSA 5198 Electronic Clinical Record Systems
3 sh (may not be repeated for credit)
Explores the use and evaluation of a commercially available electronic medical records system. Health care workflow issues will be addressed in the context of impacts on billing, collections, HIPAA and scheduling in a health care practice. Working knowledge of personal computers, including knowledge of word-processing, spreadsheet packages, and Internet searching. Offered concurrently with HSA 4192; graduate students will be assigned additional work.

HSA 5436 Health Economics
3 sh (may not be repeated for credit)
Prerequisite: GEB 5871
Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 4430; graduate students will be assigned additional work.

HSA 5438 Business Analysis and Decision Making in Health Care
3 sh (may not be repeated for credit)
Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 4431; graduate students will be assigned additional work.

HSA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HSA 6342 Human Resources in Health Care
3 sh (may not be repeated for credit)
Introduces graduate students to the management of human resources specifically within health care organizations. The course focuses on skills required to become an effective manager and gain knowledge of fundamental human resource management topics: strategic HR management; workforce planning; legal environment of HR management; workforce diversity; job analysis and job design; recruitment, selection, and retention; organizational development and training; compensation and benefits; health safety and preparedness; and employee and labor-management relations.

HSA 6521 Critical Analysis of Health
3 sh (may not be repeated for credit)
Analysis of research being conducted on causes of illness and death in the United States and other countries. Credit may not be received in both HSA 6521 and HSA 6106.

HOSPITALITY MANAGEMENT Courses

HFT 2000 Introduction to Hospitality, Recreation, and Resort Management
3 sh (may not be repeated for credit)
Introduction to the unique characteristics of service industries, and the concept of service quality. The many segments of the Hospitality, Recreation, and Resort fields are reviewed, along with related employment opportunities.

HFT 3221 Human Resources in Hospitality, Recreation, and Resorts
3 sh (may not be repeated for credit)
Covers basics of human resource administration while focusing on the importance of human resource management within service industries; customer satisfaction is dependent upon employee satisfaction. Emphasis placed upon motivation, training, and strategies to combat the high turnover that characterizes hospitality fields.

HFT 3271 Spa Management
3 sh (may not be repeated for credit)
Spa development is traced from Roman roots to the types of spas currently in existence: day spas, destination spas, and resort spas. Major treatments/services are reviewed: facial therapies, massage therapies, water therapies, face and body services, salon services, exercise, personal training, etc. In addition to operations, the functional areas of marketing, human resources, and financial management are discussed within the context of spas.

HFT 3277 Resort Operations and Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Complete approach to the operation of resort properties from a department manager's perspective. Beginning with historical development, details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of resort business. The future and the impact of the condominium concept, time-sharing, technological change, and the increased cost of energy and transportation, are also discussed.

HFT 3414 Managing Front Office Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Students will learn a systematic approach to front office procedures by detailing the flow of business through a hotel, form the reservations process to check-out and account settlement. Various elements of effective front office management will be examined, paying particular attention to the planning and evaluation of front office operations and to human resources management. Front office procedures and management are discussed within the context of the overall operation of a hotel.

HFT 3814C Management of Food and Beverage Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Co-requisite: HFT 3856C
Students will gain an understanding of the management process in food and beverage operations. All aspects of food and beverage operations are covered including organization, marketing, menus, costs and pricing, production, service, safety, and finances. This class is designed for future managers who will have to help out in the kitchen and will be responsible for cost control. This is not for students who intend to be Chefs.

HFT 3856C Managing Service in Food and Beverage Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Co-requisite: HFT 3814C
Students will learn practical skills and knowledge for effective management of food service operations. Basic service principles will be emphasized including the importance of meeting and, whenever possible, exceeding the expectations of guests.

HFT 3932 The Disney Semester: Experiential Learning in Hospitality, Recreation, and Resort Management
6-12 sh (may not be repeated for credit)
For students who have been accepted into the Walt Disney World College Program. Combines experiential learning through a minimum of 600 work hours (6 credit hours) with optional classroom education (maximum of 2 classes-3 credit hours / class) at Walt Disney World in Orlando, Florida. Permission is required.
HFT 3941 Field Study in Hospitality, Recreation and Resort Management
3 sh (may not be repeated for credit)
Students work in a hospitality, recreation or resort-related organization under the supervision of an agency representative and a faculty advisor. Skills, knowledge and values are developed on-the-job in entry level service industry positions; total of 300 work hours. Permission is required.

HFT 4274 Condominium and Vacation Interval Ownership
3 sh (may not be repeated for credit)
A comprehensive study of timeshare and vacation ownership of condominium properties. Legal structures, projects budgeting, marketing, sales and property management. Students are introduced to the fastest growing segment of the lodging industry. Differences between traditional and non-traditional lodging operations are examined.

HFT 4426 Financial Decision-Making in Hospitality, Recreation and Resorts
3 sh (may not be repeated for credit)
Prerequisite: ACG 3082 AND HFT 2000
Specialized accounting for hotel revenue and expenses; accounting for inventory, property, and equipment; hospitality payroll accounting; hotel departmental financial statements; the income statement, balance sheet, and statement of cash flows; the analysis of financial statements; interim and annual reports; budgeting expenses; forecasting sales; budgetary reporting analysis; and financial decision-making.

HFT 4753 Convention Facilities and Meetings Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Convention facilities, convention and visitors bureaus, sponsors, host venues, stakeholders, tradeshows and meeting management are examined. Legal issues and trends are studied. The economic impact of meetings and convention business upon destinations is studied.

HFT 4940 Internship in Hospitality, Recreation and Resort Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Capstone experience working in a hospitality, recreation or resort-related organization whereby students put theory into practice through active participation. Students are supervised by a management-level agency employee as well as by a faculty advisor. A total of 400 hours must be worked. Senior standing and permission is required.

HFT 4945C Senior Capstone Experience in Hospitality, Recreation, and Resort Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 3941
This will be a capstone experience for HRRM students whereby students put theory into practice through active participation and class participation. Students are supervised by a management-level agency employee and by faculty academic support. A total of 400 hours of practicum experience will be completed in addition to classroom instruction. Senior standing and permission will be required.

HUMANITIES Courses

HUM 4911 Interdisciplinary Humanities Capstone
3 sh (may not be repeated for credit)
Designed so the student may integrate and reflect on his or her undergraduate program of study. Internship or research project is closely coordinated with the student's advisor. Purpose is to provide connection, coherence, and closure to one's major course of study. Permission is required.

HUM 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HUM 6910 Master's Essay
1-3 sh (may not be repeated for credit)
Completion of a comprehensive research essay which attempts to integrate the three fields of study. A committee of faculty, one from each discipline, evaluates on a satisfactory / unsatisfactory basis. Permission is required.

HUM 6971 Thesis
1-8 sh (may not be repeated for credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

INDUSTRIAL APPLIED PSYCH Courses

INP 3004 Industrial Psychology
3 sh (may not be repeated for credit)
Application of psychological principles to problems of employee selection, placement, merit rating, job analysis, management training and other factors related to productivity.

INP 3313 Organizational Behavior
3 sh (may not be repeated for credit)
Understanding human processes in formal organizations, utilizing individual and group exercises which simulate behavioral dynamics in organizations. Content areas include conflict resolution, communication, leadership, planning and control and other organizational processes. May not be taken for credit by students having credit in either MAN 3240. MAN 3025 or equivalent is suggested prior to taking this course, but not required.

INP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

INP 4224 Psychology of Workforce Diversity
3 sh (may not be repeated for credit)
Addresses the experience of work as it varies with the gender and ethnic background of workers in the United States. Other bases of diversity (e.g., disability) may also be addressed. Topics include workplace stereotypes and attitudes; discrimination and harassment; career choice, occupational segregation, and employment patterns; group differences related to fair testing and employment practices; the relationship of workforce diversity to processes such as supervision, leadership, mentoring, and power; law and public policy related to diversity and work. Lecture, discussion, and participative learning methods are used. Three hours of psychology or sociology are required prior to taking this course.

INP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
INP 5087 Ethics in I/O Psychology
1 sh (may not be repeated for credit)
A one hour seminar-style course that addresses the ethical concerns of I/O psychologists working in such areas as consulting, research, academia, and human resources. Permission is required.

INP 5131 Legal Issues in Industrial/Organizational Psychology
3 sh (may not be repeated for credit)
Exposes students to laws, guidelines, and court cases (e.g., ADA, ADEA, FMLA, Sexual Harassment, Civil Rights Acts) important to human resource functions in organizations, with particular emphasis on employment testing for selection.

INP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

INP 6216 Personnel Selection and Appraisal
3 sh (may not be repeated for credit)
Current issues and techniques in selection, placement and appraisal, job analysis, criterion development; the validation process, assessment centers and EEO issues.

INP 6255 Methods in Personnel Psychology
2 sh (may not be repeated for credit)
Experience in the construction and / or use of various instruments or procedures in personnel psychology. Examples may include personnel selection or performance appraisal devices; job analysis or job evaluations; calculation of reliability, validity or cut off scores or needs assessments for training. Permission is required.

INP 6325 Training and Development
3 sh (may not be repeated for credit)
Examines both the theory and practice of Training and Development in organizations. Provides students with a working knowledge of the industrial psychology model of training the adult learner (i.e., assessing training needs, developing training programs, delivering training programs, and evaluating the success of training interventions). Also explores theories of learning and motivation and post-training strategies for enhancing the success of a training program.

INP 6385 Group Dynamics in Organizations
3 sh (may not be repeated for credit)
Emphasizes the application of general principles and theories derived from group processes research (particularly the social psychological research) to contemporary organizational problems. The classroom experience will be student-centered. Students will be expected to participate in discussion and classroom exercises, and prepare short written analyses of examples and cases. Topics covered may include: group development and socialization, group structure, conformity and influence, conflict, social identity, commitment, power, leadership, performance and decision-making.

INP 6397 Management and Organizational Behavior
3 sh (may not be repeated for credit)
Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Also emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.), and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. Not available to students having credit for MAN 6156.

INP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
INP 6944 Practicum in Industrial Psychology
1-3 sh (may be repeated for up to 6 sh of credit)
Primarily for education in traditional industrial areas. Involves placement in an industrial setting. 6-8 hours per week of field experience for every hour of credit. Must be an industrial-organizational program student and permission is required.

INDUSTRIAL ENGINEERING Courses
EIN 4354 Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Basic principles and applications of economic decision making between alternatives encountered in engineering systems projects. The analysis will include methodologies of economics and finance in addition to engineering fundamentals. Upper division classification in engineering is required.

INFORMATION SYSTEMS MGMT Courses
ISM 3011 e-Business Systems Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Use and application of information system technology in the business environment, with emphasis on the fundamental e-Business models, technology concepts and systems used to enable and conduct electronic business. Concepts include the components of an I.S., the systems development process, the functions of the various types of communication networks, hardware, and software, including practical, hands-on projects designed to enhance e-Business analytical skills. Completion of 45 semester hours of college course work is required prior to this course.

ISM 3235 Business Development Environments
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Explores the concepts involved in the development of event-driven business applications. Concepts covered include GUI application design and development, object-oriented systems linking business objects, and client-server environments. Uses Visual Basic to demonstrate the concepts. Prior programming experience preferred but not required.

ISM 3323 Information Security Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Information Security in the modern organization is both a management and a technology issue. Course recognizes that technology alone cannot address all the security issues; Prepares students for management and control of security of information systems in organizations; prepares students to make informed decisions regarding administration of information security infrastructure. Instructor permission if pre-req is not met.
ISM 4113 Business Systems Design
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

A project-based introduction to the principles of business information systems design, including the basic methods and procedures involved in planning and controlling the development and modification of a computer-based information system in an organization. Students use modern microcomputer-based, computer-aided systems design tools and techniques to complete design projects. Focuses on the importance of end-user specifications for information systems projects.

ISM 4114 Business Information Systems Development
3 sh (may not be repeated for credit)
Prerequisite: ISM 3235 AND ISM 4113

An advanced course in the application of emerging information technologies to the development of business information systems. Students integrate knowledge from previous courses to plan, analyze, design, and implement a comprehensive, real-world project. Emphasis is on the integration of business requirements with emerging information technologies to develop the business information systems framework.

ISM 4300 Systems Planning, Design and Control
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Techniques for the planning, design and control of information systems. Stresses link between strategic planning of the organization and strategic planning of the management information system.

ISM 4400 Decision Support and Expert Systems
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Current tools and techniques available to support managerial decision-making. Analysis and practice in the building and use of decision support systems and expert/knowledge-based systems.

ISM 4483 e-Business Infrastructure Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Explores the complexities of knowledge management in the e-business era. Uses software tools to analyze data and create business intelligence.

ISM 4481 Knowledge Management for e-Business
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 AND ISM 3235

Explores the complexities of knowledge management in the e-business era. Uses software tools to analyze data and create business intelligence.

ISM 4483 e-Business Infrastructure Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Explores the technology and management concepts, issues and decisions related to the infrastructure required to support end-to-end, partner-to-partner electronic business processes.

ISM 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

Provides the M.B.A. student with a contemporary managerial perspective on the effective use of information systems in global organizations through case analyses and class discussions. Topics include the business value of information systems, integration of information systems with enterprise strategy, the use of information systems to achieve organizational redesign for strategic advantage, and applying the processes of leadership and management to information systems planning and implementation. Contains a portfolio project.

ISM 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

INTERDISCIPLINARY HONORS Courses

IDH 1040 Honors Core 1
3 sh (may not be repeated for credit)

Honors Core 1 and Honors Core 2 establish the foundation of the academic experience unique to the Honors program at the University of West Florida. Honors Core 1 focuses on the formulation of the self as it appears in our central literary heritage and examines the overarching, guiding questions that have long beset humanity as they appear in core Western texts. Honors Core 1 is designated as a General Studies course. The General Studies curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting your requirement in the Literature area. The major General Studies learning outcomes for this course are Analysis / Evaluation, Information Literacy, and Writing. Offered Fall Semester only.

IDH 1041 Honors Core 2
3 sh (may not be repeated for credit)

Honors Core 1 and Honors Core 2 establish the foundation of the academic experience unique to the Honors program at the University of West Florida. In Honors Core 2, students will explore the philosophical underpinnings of community and investigate the distinctive features of Western and Eastern notions of communal life. This foundation will prepare students to address those features of modern society that threaten community. Specific attention will be given to various threats to community, including radicalism and globalization, mass society and suburban sprawl, lawlessness and violence, technology and social networking, and economic arrangements and collective action problems. Students then will consider the ways in which citizens can benefit from engaging their communities of interest, can foster more meaningful civic life, and can provide leadership to build a better future. Honors Core 2 is designated as a General Studies course. The General Studies curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting your requirement in the Social Science, Socio-Political Perspectives area. The major General Studies learning outcomes for this course are Analysis / Evaluation, Information Literacy, Team Work Skills, and Service Learning / Civic Engagement. Offered Spring Semester only.
IDH 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

IDH 3055 Honors Thesis Research Methods  
1 sh (may not be repeated for credit)

This course helps students understand the thesis-writing process and covers the basic research methodologies required to begin a thesis project. Each week, we will address one important step in the thesis process, starting with the question, "What is a thesis?" and finishing with the submission of a completed thesis prospectus and annotated bibliography (aka a literature review) of sources relevant to the student's chosen topic. Along the way, we will cover important areas such as choosing a topic, approaching an advisor, scholarly research methods, time management, and thesis presentation requirements. The class is conducted as a collaborative, hands-on workshop and thus provides a strong level of peer-support for students just beginning work on their theses. The goals of the course are to demystify the thesis process, prepare students to write a successful thesis, and provide intellectual and moral support throughout the early thesis-writing process. Department Permission required. Offered Spring only.

IDH 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

IDH 4030 Honors Seminar: Topic I  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4031 Honors Seminar: Topic II  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4032 Honors Seminar: Topic III  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4033 Honors Seminar: Topic IV  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4034 Honors Seminar: Topic V  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4035 Honors Seminar: Topic VI  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4036 Honors Seminar: Topic VII  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4037 Honors Seminar: Topic VIII  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4038 Honors Seminar: Topic IX  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4039 Honors Seminar: Topics X  
3 sh (may be repeated for up to 12 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

IDH 4915 Honors Research Project  
1-3 sh (may be repeated for up to 6 sh of credit)

Directed research / creative activity under the supervision of a faculty sponsor. Project description must be submitted to and approved by the Director of the Honors Program prior to enrollment in the course. Open to Honors students only. Graded satisfactory / unsatisfactory basis only.

IDH 4970 Honors Thesis  
1-6 sh (may not be repeated for credit)

Capstone project for University Honors Program. Formal presentation of research / creative activity. Open to Honors students only. Graded on satisfactory / unsatisfactory basis only. Permission is required.

INTERDISCIPLINARY SCIENCES Courses

ISC 5517 Buddhist Psychology  
2 sh (may not be repeated for credit)

Psychological overview of Buddhist theory and practice as they relate to everyday living, clinical practice and personal and transpersonal growth. Drawing from Theravada, Mahayana, Tantra and Zen, topics include four noble truths, suffering, concentration, jhanas, dependent origination, attachments, mindfulness, vipassana, nature of self, consciousness, compassion, insight, freedom, and enlightenment.

ISC 5517L Buddhist Psychology Lab  
1 sh (may not be repeated for credit)

Students learn and practice different types of meditation to cultivate concentration and mindfulness during meditation and daily living. Construction of a personal mandala and regular class attendance and participation are required.

ISC 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)
INTERNATIONAL RELATIONS Courses

INR 2002 International Politics
3 sh (may not be repeated for credit)
Sources and processes of conflict and cooperation among nation-states. (General Studies Course: SS / SOC) Meets Multicultural requirement.

INR 3006 Conflict, Violence and Peace
3 sh (may not be repeated for credit)
Conflict and violence which characterizes domestic politics of many nations. Focus on rebellions, revolutions, and coups. Gandhi's model of peaceful resolution of conflict. Meets Multicultural requirement.

INR 3073 Analyzing Issues in International Politics
3 sh (may not be repeated for credit)
This course examines several key contemporary issues in international politics. The course has both a theoretical and an applied component, with emphasis on readings to build concepts and empirical understanding combined with application through discussion and exercises designed to engage students in qualitative and quantitative analysis of these topics. For the applied component, the course approaches contemporary topics by employing the tools of political science research, including data interpretation in visual form such as charts and graphs, statistics, and models.

INR 3102 American Foreign Policy
3 sh (may not be repeated for credit)
Factors shaping American Foreign Policy in contemporary contexts; emphasis will be placed on the administration of American foreign policy and diplomacy.

INR 3224 International Relations of East Asia
3 sh (may not be repeated for credit)
This course explores security and military issues in East Asia - a region containing four "great powers" (the United States, China, Japan and Russia) and three medium-level powers (the two Koreas and Taiwan) - from the beginning of the cold war up to the current years.

INR 3225 Vietnam and American Politics
3 sh (may not be repeated for credit)
The Vietnam War and its impact upon the political experience and social values of the United States.

INR 3233 USA-China Relations
3 sh (may not be repeated for credit)
Contemporary post-cold war world politics is witnessing radical changes in security environments and relative power distributions among major powers at the global level. The change is more remarkable in Northeast Asia than in other regions in the world as the rise of China both as economic and military power relative to the United States poses unique challenges to future international security. The fast-rising Chinese power vis-a-vis the United States makes the latter reevaluate its role in East Asia, from a hegemonic power to the balancer. This course is designed to provide an overview of their foreign policy dynamics between the United States and the People's Republic of China from the beginning of the 20th century up to current years. The class discussion is divided into five major parts. First, it begins with a brief overview of different theoretical frameworks - Realism, Liberalism, and Constructivism - that explains inter-state interactions in terms of political, military / security, and other foreign policy issue areas. Next, the class surveys the history of US-China relations, dating back to the 1920s-30s when China was struggling for modern state-building. The third part of the course looks into domestic political contexts of Chinese foreign policy-making in the post-cold war setting. The fourth part discusses important security / military and economic issues revolving around US-China interactions: China's military modernization program, North Korea's nuclear development, Taiwan's independence movement, possibility of Japan's remilitarization, and US-Chinese trade disputes. The course concludes with a discussion over the future of American grand strategy in East Asia.

INR 3503 Model United Nations
3 sh (may not be repeated for credit)
Students will learn the theory behind the founding, the history, the organization, and the parliamentary procedures of the United Nations. During in-class simulations, they learn to represent the University of West Florida at local or regional Model United Nations conferences, where they would be required to be "in-character," representing the views of their assigned country rather than their own. Requires extensive preparation and research.

INR 4205 Spying: Fact and Fiction
3 sh (may not be repeated for credit)
Examination, in a seminar environment, of various aspects of espionage among major powers in the period 1915-2006. The primary focus of the course is on real-world human intelligence and counterintelligence activities of espionage agencies revealed in six novels. Coverage will be given to operations by German, French, British, Soviet, and U.S. human intelligence organizations supporting their nation's vital interests from World War I and II, the Cold War and in the modern era. Offered concurrently with INR 5206 (Spying: Fact and Fiction); graduate students will be assigned additional work.

INR 4334 National Security Policy
3 sh (may not be repeated for credit)
Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 5330; graduate students will be assigned additional work.
INR 4364 Intelligence
3 sh (may not be repeated for credit)
Covers the origins, missions, functions, and responsibilities of the US security agencies as well as the relationship of the intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 5365; graduate students will be assigned additional work.

INR 4403 International Law
3 sh (may not be repeated for credit)
Nature, history and trends of legal controls on international behavior; conflict between theory and practice; cases will be used to illustrate various points of law.

INR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

INR 5206 Spying: Fact and Fiction
3 sh (may not be repeated for credit)
Examination, in a seminar environment, of various aspects of espionage among major powers in the period 1915-2006. The primary focus of the course is on real-world human intelligence and counterintelligence activities of espionage agencies revealed in six novels. Coverage will be given to operations by German, French, British, Soviet, and U.S. human intelligence organizations supporting their nation's vital national interests from World War I and II, the Cold War and in the modern era. Offered concurrently with INR 4205 (Spying: Fact and Fiction); graduate students will be assigned additional work.

INR 5330 National Security Policy
3 sh (may not be repeated for credit)
Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 4334; graduate students will be assigned additional work.

INR 5365 Intelligence
3 sh (may not be repeated for credit)
Covers the origins, mission, functions, and responsibilities of the US security agencies as well as the relationship of the intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 4364; graduate students will be assigned additional work.

INR 6007 Seminar in International Relations
3 sh (may not be repeated for credit)
International Relations as a field study; theory, empirical data, historical development of the field.

INR 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JAPANESE Courses

JPN 1120C Japanese I
4 sh (may not be repeated for credit)
For students with no knowledge of Japanese. Lays a foundation for speaking, writing and reading the language.

JPN 1121C Japanese II
4 sh (may not be repeated for credit)
Prerequisite: JPN 1120C
Continuation of Japanese I.

JPN 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JPN 2200 Japanese III
3 sh (may not be repeated for credit)
Prerequisite: JPN 1121C
Japanese III will strengthen speaking and hearing communication skills. Practice on speed, rhythm and pronunciation will be stressed. In addition, this course will focus on basic writing and reading comprehension skills with new Kanji and vocabulary.

JPN 2201 Japanese IV
3 sh (may not be repeated for credit)
Prerequisite: JPN 2200
Japanese IV will continue building speaking and hearing communication skills developed in Japanese III. Intensive practice on speed, rhythm, and pronunciation will be stressed. In addition, this course will focus on strengthening writing and reading comprehension skills and introduce new Kanji and vocabulary.

JPN 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JPN 3270 Supervised Language Experience Abroad
3 sh (may not be repeated for credit)
Japanese language study in Japan. Two semesters of Japanese or a proficiency in conversational Japanese and permission is required. Meets Multicultural requirement.

JPN 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JPN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JOURNALISM Courses

JOU 2100 Newspaper Reporting
3 sh (may not be repeated for credit)
Principles and procedures in gathering, reporting and writing news and feature articles. (Gordon Rule Course: Wrtg). Credit may not be received in both JOU 2100 and JOU 3100.

JOU 3300 Feature Writing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Researching and writing feature articles for newspapers, trade journals and general circulation magazines. Includes manuscript preparation and querying of editors for publication. Credit may not be earned in both JOU 3330 and JOU 3300.

INTERNATIONAL STUDIES Courses

INS 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
JOU 3314 Environmental Reporting
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Focuses on techniques required to research, report and write environmental new stories for newspapers. Students cover an environmental beat during the semester to gain experience with writing about a wide range of issues relating to environmental journalism. The course also examines issues such as reporting ethics, the role of environmental reporters in the community, the history of environmental journalism and utilization of both government databases and the Internet to gain regulatory information for environmental stories. The course explores environmental stories involving public health, public land management, restoration of endangered species, and eco-activism. Permission is required.

JOU 3342 Media Convergence
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Teaches students to report stories simultaneously appearing in print, broadcast and online. Multimedia reporting melds digital technology platforms with traditional reporting skills, ethics and standards.

JOU 3700 Issues in Journalism
3 sh (may be repeated for up to 90 sh of credit)
Introduction to major issues challenging news media in today's digital society, including ethics, public perception of the press, the Internet, political pressures, financial viability and standards of press performance.

JOU 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JOU 3940 Practicum: Voyager
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: JOU 2100
Experience in preparing news, opinion and feature material for publication in the student newspaper. Permission is required.

JOU 4181 Public Affairs Reporting
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Principles and procedures involved in reporting and writing news stories about public affairs/government for newspapers, broadcasters and online news services. Permission is required.

JOU 4201 Newspaper Editing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
The editing of local and wire copy for newspapers and other publications. Strong emphasis on principles of grammar, punctuation, diction, syntax, and logic. Headline writing, cutline writing, news judgment and photo display. Use of standard reference books.

JOU 4213 Newspaper Design
3 sh (may not be repeated for credit)
Principles and practices in newspaper layout and design. Credit may not be received in both JOU 4213 and JOU 4211.

JOU 4206 Writing Critical Reviews
3 sh (may not be repeated for credit)
Devoted to writing reviews of books, film, art, and music. (Gordon Rule Course: Wrtg).

JOU 4306 Writing Critical Reviews
3 sh (may not be repeated for credit)
Devoted to writing reviews of books, film, art, and music. (Gordon Rule Course: Wrtg).

JOU 4308 Magazine Writing
3 sh (may not be repeated for credit)
Principles and practices in the art of writing for magazines. Focuses on in-depth reporting and refined focus for the magazine market. (Gordon Rule Course: Wrtg).

JOU 4445 Magazine Publishing
3 sh (may not be repeated for credit)
This class creates, designs and publishes an online magazine focused on the University of West Florida. Students work as an editorial team led by editors from the class. Positions for which students will apply are executive editor, content editors, design editors, copy editors, graphic/photo editors and writers. While all students will produce at least one article for the magazine, each will be assigned additional responsibilities. This editorial team, in a collaborative manner, will explore and uncover interesting UWF subjects for articles, investigate those subjects and then write articles that will be edited and used in creative designs. Permission is required.

JOU 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JOU 6010 Emerging Topics in Media Issues
1.5 sh (may not be repeated for credit)
This course explores the rapidly changing mass media landscape including media convergence. Students investigate numerous forms that industry may take in both its news and entertainment aspects. Particular attention is paid to the potential implications of strategic communication action within emerging media cultures. The course emphasizes critical analysis of media texts and news information cycles through theoretical frameworks in communication.

JOU 6115 Interviewing and Information Gathering
3 sh (may not be repeated for credit)
Provides advanced grounding in how historians, journalists, and qualitative social scientists employ best practices in interviewing and other information seeking to accomplish their objectives.

JOU 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**JUVENILE JUSTICE Courses**

CJJ 4010 Juvenile Justice
3 sh (may not be repeated for credit)
Examines the nature and extent of delinquency in the United States and the system response to juvenile crime. Particular attention is given to theoretical explanations of juvenile delinquency and examination of how politics, courts, and correctional agencies respond to juvenile offenders, and the effectiveness of these responses. Credit may not be received in both CJJ 4010 and CCJ 4501.

CJJ 6020 Criminal Justice and the Juvenile
3 sh (may not be repeated for credit)
Explores the nature and extent of juvenile delinquency and examines explanatory models and theories of juvenile delinquency. Topics related to the juvenile justice system and the process, such as juvenile waiver to the adult court, diversion and deinstitutionalization, police interaction, and community intervention.
### LANG ARTS ENGLISH ED Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Repeatable?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAE 3314</td>
<td>Literacy for the Emergent Learner</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<tr>
<td></td>
<td>Development of pre-service teacher skills and understandings needed for conducting a language arts program at the elementary school level.</td>
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<tr>
<td>LAE 3324</td>
<td>Teaching Language Arts in the Middle and Secondary Schools</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<tr>
<td></td>
<td>Theory / methodology for teaching language arts / literature at the middle and secondary school level; emphasis on teaching strategies for integrating classroom listening, speaking, reading, and writing activities; includes observation / participation in middle and secondary school settings.</td>
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<tr>
<td>LAE 3905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>may be repeated indefinitely for credit</td>
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<tr>
<td></td>
<td>LAE 4335 Special Methods in English</td>
<td>4 sh</td>
<td>may not be repeated for credit</td>
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<td></td>
<td>Practical application of theory and methodology to teaching English in secondary schools. Involves a six-week classroom practicum, a twelve-week Writing Lab practicum, unit planning, curriculum building, a teaching presentation, a teaching portfolio, and a research project.</td>
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<tr>
<td>LAE 4464</td>
<td>Young Adult Literature</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<td></td>
<td>Modern works of literature that have demonstrated appeal for adolescents and works written specifically for the age range of 12 to 20 years. The works will be considered in the context of young adult needs: psychological, social and ethical. Designed primarily for education majors.</td>
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<tr>
<td>LAE 4905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>may be repeated indefinitely for credit</td>
</tr>
<tr>
<td>LAE 5345</td>
<td>Teaching Pupils to be Effective Writers</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
</tr>
<tr>
<td></td>
<td>Designed to assist K-12 teachers to further develop skills and understandings requisite to implementing a successful writing program in the classroom. Emphasis is placed upon provision of a balance between expressive and practical composition opportunities for pupils and upon instructional procedures to assist pupils to develop the strategies and skills that support effective written communication.</td>
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<tr>
<td>LAE 5468</td>
<td>Literature for Children and Young Adults</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<td></td>
<td>Comprehensive survey of literature for children and young adults. Critical analysis and review of the writings of authors and illustrators and how to effectively use their materials in instructional settings. Evaluation and selection of materials based upon the biological, socio-cultural, psychological and developmental characteristics of children and young adults; guidance in their use, emphasizing attitudes, interests, problems, and opportunities of children and young adults in contemporary society. Evaluation, selection, and use of both print and nonprint materials for children; impact of mass media on children and young adults in our society; analysis of attitudes, issues and values reflected in these media and their use in educational settings.</td>
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<tr>
<td>LAE 5905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>may be repeated indefinitely for credit</td>
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### LATIN AMERICAN HISTORY Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Repeatable?</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAH 3100</td>
<td>Colonial and Revolutionary Latin America</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
</tr>
<tr>
<td></td>
<td>Pre-Columbian cultures and interactions of Spanish and English colonial administrative and economic systems; economic, social, intellectual and political efforts of revolution against Spain. Meets Multicultural requirement.</td>
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<tr>
<td>LAH 3200</td>
<td>Latin America since Independence</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<tr>
<td></td>
<td>Political, economic and social problems of early nationhood; analysis of revolution, development models, role of the military and international relations. Meets Multicultural requirement.</td>
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<tr>
<td>LAH 4905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>may be repeated indefinitely for credit</td>
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<tr>
<td>LAH 6905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>may be repeated indefinitely for credit</td>
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### LAW AND PROCESS Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Repeatable?</th>
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</thead>
<tbody>
<tr>
<td>CJE 3174</td>
<td>Comparative Criminal Justice</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<td></td>
<td>The evolution and operation of criminal justice systems in other nations and cultures including the development of criminal justice in response to social, historical, and political factors. Includes a brief history of the world's legal systems and an analysis of key procedural and substantive similarities and differences. Associated topics include: administration and function of police, courts, and corrections, and a study and analysis of the increasing internationalization of both the incidence of crime and the administration of criminal justice.</td>
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<tr>
<td>CJE 3444</td>
<td>Crime Prevention</td>
<td>3 sh</td>
<td>may not be repeated for credit</td>
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<td></td>
<td>Provides a foundation of various methods of community crime prevention (prevention outside the traditional confines of the CJ's) and their effectiveness. Relevant theory and research related to neighborhood efforts at crime prevention, community policing, school crime prevention, and other situational prevention measures will be explored critically.</td>
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CJE 3674 Introduction to the Forensic Sciences  
3 sh (may not be repeated for credit)

Forensic Science is the application of scientific disciplines and principles to the legal system, particularly the litigation in court of contested factual disputes. Examines the distinct fields of education and study that collectively comprise the forensic sciences. These fields include among others forensic psychiatry and psychology, forensic anthropology, forensic pathology, forensic toxicology, serology and DNA typing, questioned documents, crime scene investigation, forensic engineering, fingerprint evidence, polygraph and other investigative devices, and forensic chemistry including drug analysis. Credit may not be received in both CJE 3674 and CJE 3670.

CJE 3694 Cybercrime  
3 sh (may not be repeated for credit)

Cybercrime is a course for students with a beginning interest in studying crimes committed using digital technology. The course explores the etiology of cybercrime, the various types of cybercrime, law enforcement response, and the prevention of digital crime.

CJE 4110 Police in a Free Society  
3 sh (may not be repeated for credit)

Analysis of the role of and challenges to policing in a democratic society. Examination of contemporary and historical influences on police policy, personnel, and organization. Discussion of police function within society.

CJE 4161 Crime and Media  
3 sh (may not be repeated for credit)

Analysis of the depiction of crime and the criminal justice system presented through the major mass media within America. Forms of media may include, but are not limited to: crime movies, television crime dramas, television news, the internet, and newspaper crime coverage. This course uses media as a learning tool to allow students to more deeply examine how the criminal justice system works and how society's reaction to crime is influenced by the media.

CJE 4610 Criminal Investigation  
3 sh (may not be repeated for credit)

An introduction to criminal investigation. Topics will include investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation. Credit may not be received in both CJE 4610 and CCJ 4239.

CJE 4613 Homicide  
3 sh (may not be repeated for credit)

An examination of homicide and its investigation. Includes types of homicide as well as death by natural and accidental causes. Reviews and expands on investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation.

LEI 3140 Leisure and Society  
3 sh (may not be repeated for credit)

Historical and philosophical foundations of leisure. Examinations of current trends, problems and issues affecting leisure in the United States.

LEI 3301 Travel and Tourism  
3 sh (may not be repeated for credit)

Cross-disciplinary examination of the many facets of tourism. The social science perspective provides students with the kind of practical knowledge that can effectively be applied to the hospitality industry. Also provides advanced information that can serve as a bridge to further analysis or study. Examples of local issues and trends important in the tourism industry.

LEI 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LEI 4300 Strategic Leadership in Hospitality, Recreation, and Resorts  
3 sh (may not be repeated for credit)

Prerequisite: HFT 2000 AND MAN 3025

Analysis of hospitality, recreation, and resort organizations dealing with strategic planning, leadership, management, budgeting, records and reports, risk management, staff organization, and coordination of resources.

LEI 4321 Sport, Adventure and Ecotourism  
3 sh (may not be repeated for credit)

Discussion of the concepts, theories and issues relevant to the development of tourism, with an emphasis on sport, adventure and nature based tourism. Examination of the challenges and practices associated with the planning and development of tourism, marketing strategies, funding, government involvement, financing of the infrastructure, event organization, contracts, public relation strategies and career opportunities. Introduction and overview of tourism “niches” including festivals, special events, urban, rural, cultural, peace and educational tourism. Upper level status is required.

LEI 4332 Community Tourism Development  
3 sh (may not be repeated for credit)

Prerequisite: LEI 3301

Examines the relationship between tourism development and host communities. Students study the positive and negative economic, social, environmental and political implications of tourism development. The role of natural and man-made attractions, theme parks, convention and sports facilities as catalysts to tourism development. Issues of community participation in tourism planning and managing the tourism/ community relationships. Upper level status is required.

LEI 4350 Outdoor Leisure  
3 sh (may not be repeated for credit)

Survey of issues affecting outdoor leisure in America from a conservation/environmental perspective; and the effective communication of outdoor leisure values. Analysis of leadership skills associated with outdoor leisure activities. Material and supply fee will be assessed.

LEI 4400 Programming and Special Events  
3 sh (may not be repeated for credit)

Prerequisite: LEI 3140

Principles of leisure program development and study of program areas, activities, and special events. Analysis of the methods and techniques of program / event design, organization, implementation, and evaluation.
LEI 4560 Hospitality, Recreation, Tourism, and Resort Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 2000  
An analysis of the marketing process as it relates to park, recreation, tourism, and leisure services. Target and service marketing; strategic marketing planning; marketing research; current issues; future trends and marketing opportunities. Upper level status is required.

LEI 4602 Hospitality, Recreation, Tourism, Planning, and Design  
3 sh (may not be repeated for credit)  
Examination of the fundamental concepts, the specific principles, and the process of planning and designing hospitality, recreation, and resort facilities, including visitor attractions. Students work individually and in teams to design facilities that fulfill travel/recreation expectations, operate graciously in the community, and function efficiently to realize profit. Upper level status is required.

LEI 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LEI 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LEI 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIBRARY INFO STUDIES Courses

LIS 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIS 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LINGUISTICS Courses

LIN 2670 Practical Grammar and Usage  
3 sh (may not be repeated for credit)  
Review of the basic principles of writing: grammar, usage, diction, syntax and mechanics, emphasizing usage that is "incorrect," "wrong," "substandard," and "inappropriate."

LIN 3742 Modern Grammar and Usage  
3 sh (may not be repeated for credit)  
Grammar of modern English, including traditional; concentration on structural, generative and transformational approaches. Intended for English majors, required of those preparing for careers in secondary education.

LIN 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIN 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIN 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LITERATURE Courses

LIT 1122 Great Books I  
3 sh (may not be repeated for credit)  
Reading / discussion of major literary texts that have shaped Western culture and civilization. (Gordon Rule Course: WRTG and General Studies Course: HUM / LIT).

LIT 1905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIT 2030 Introduction to Poetry  
3 sh (may not be repeated for credit)  
Elements of poetry, terminology of poetics and the poetic process. Writing of short analytical papers. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM / LIT).

LIT 2040 Introduction to Drama  
3 sh (may not be repeated for credit)  
This course is an introductory survey of drama as literature and performance medium. Through critical reading and analysis of representative texts, beginning with plays from ancient Greece and continuing with plays from various cultures throughout history, students will have an opportunity to experience drama as an aesthetic experience, historical phenomenon, and forum for the expression of cultural and intellectual issues. (Gordon Rule Course: Wrtg) (General Studies Course: HUM / LIT).

LIT 2100 Introduction to Literature  
3 sh (may not be repeated for credit)  
Literature from various nations and historical periods chosen to reflect the evolution of the major genres of the Western literary tradition. Guides the student in defining the features which distinguish drama, fiction and poetry. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM / LIT) Meets Multicultural requirement.

LIT 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIT 3084 Modern Prose Fiction  
3 sh (may not be repeated for credit)  
Selected prose fiction of 20th century and related criticism.

LIT 3191 World Literature  
3 sh (may not be repeated for credit)  
Covers a range of topics focusing on non-U.S. literatures. Texts vary each semester according to interest and expertise of the instructor.

LIT 3233 Postcolonial Literature  
3 sh (may not be repeated for credit)  
Examines world literature produced in the context of colonialism and subsequent movements for independence. Links the study of literature to the political, psychological and cultural effects of imperialism and globalization. Specific topics vary according to faculty expertise and research interests.

LIT 3463 Literature and Visual Studies  
3 sh (may not be repeated for credit)  
Examines literature in the context of film, the visual arts, and emerging new media. Emphasis on twentieth century and contemporary literary and aesthetic movements.

LIT 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIT 4013 The Novel  
3 sh (may not be repeated for credit)  
The novel as a genre; exploration of the techniques of narrative, characterization, point of view, voice, reflexivity and others. May include texts from diverse national origins.
LIT 4385 Feminist Theory
3 sh (may not be repeated for credit)
This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year.

LIT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

LIT 5018 Topics in Fiction
3 sh (may be repeated for up to 12 sh of credit)
Special topics in fiction. Topics change each term. See department or instructor for specific topic.

LIT 5037 Topics in Poetry
3 sh (may be repeated for up to 12 sh of credit)
Special topics in poetry.

LIT 5047 Topics in Drama
3 sh (may be repeated for up to 12 sh of credit)
Special topics in drama. Topics change each term. See department or instructor for specific topic.

LIT 5105 Topics in World Literature
3 sh (may be repeated for up to 12 sh of credit)
Generic or thematic topics involving more than one national literature.

LIT 5556 Feminist Theory
3 sh (may not be repeated for credit)
This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year.

LIT 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

LIT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**MANAGEMENT Courses**

MAN 3025 Management Fundamentals
3 sh (may not be repeated for credit)
Study of principles of management. Process and content of management analyzed. Emphasizes classical, human relations, human resources, behavioral and quantitative management methods. Content includes planning, organizing, leading, control, employment cycle, organization design, and motivation.

MAN 3240 Behavior in Organizations
3 sh (may not be repeated for credit)
A study of human and group behavior in organizations and within society. The focus is on developing student ability to work in group settings and organizations. Topics include personality, motivation, leadership, communication, power, change, and conflict. May not be taken for credit by students having credit INP 3313.

MAN 3301 Human Resources Management
3 sh (may not be repeated for credit)
Introduction to personnel administration; emphasis on the basic personnel function of both the personnel specialist and the operating manager. Critical issues stressed include selection, compensation, OSHA, EEO, unions and discipline.

MAN 3504 Operations Management
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
Application of quantitative and qualitative management techniques for improving quality and efficiency of manufacturing and service organizations. Coverage of productivity, quality, forecasting, design of goods/services, project management and other related topics.

MAN 3550 Introduction to Management Science
3 sh (may not be repeated for credit)
Prerequisite: MAC 2233 AND MAN 3025
Quantitative decision-making methods and their application to planning and control of operations. Systems concept of organization and mathematical reasoning in decision-making emphasized. Cases and incidents provide illustrations. Credit may not be earned in both MAN 3540 and MAN 3550.

MAN 3583 Project Management
3 sh (may not be repeated for credit)
An introduction to the field of Project Management. Covers concepts and skills used to propose, plan, secure resources, budget, manage risk, and lead teams to successful project completion. The course emphasizes the universal nature of the techniques which enable individuals to manage a variety of projects in diverse organizational settings. Students individually develop project plans for projects in their respective disciplines.

MAN 3802 Small Business/Family Business Management
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND ECO 2023 AND MAN 3025 AND MAR 3023
Introduces the student to the world of small business and family business management. Explores the managerial processes related to these areas and differentiates them from those found in corporations and large organizations. Provides the student with an opportunity to analyze the mind of the small business manager, brainstorm potential business options, and consider various contemporary issues facing the small business manager. Group projects will be utilized and oral and written reports will be required.

MAN 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAN 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.
MAN 4102 Management of Diversity
3 sh (may not be repeated for credit)
Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse workforce toward a more productive unit. Offered concurrently with MAN 5116; graduate students will be assigned additional work. Meets Multicultural requirement.

MAN 4330 Compensation and Benefits
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301
Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization’s strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 5331; graduate students will be assigned additional work.

MAN 4350 Staffing, Training, and Development
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301
Employees are commonly recognized as an organization’s most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines the best practices in staffing, training, and development so that students may learn how to establish and effectively manage both staffing systems and training and development programs. Offered concurrently with MAN 5351; graduate students will be assigned additional work.

MAN 4441 Business Negotiation
3 sh (may not be repeated for credit)
A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 5446; graduate students will be assigned additional work.

MAN 4720 Policy Analysis and Formulation
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND MAN 3025 AND MAN 3504 AND MAR 3023
Aggregate planning and development of overall policy for organizations. Emphasizes the system interrelationship of the functional areas of enterprise from the viewpoint of top executives. Senior status and permission is required.

MAN 4750 The Future: Projecting, Planning and Managing
3 sh (may not be repeated for credit)
Roles that individuals and organizations have in managing the future. Senior status is required; business majors only.

MAN 4801 Business Plan Development for New Ventures
3 sh (may not be repeated for credit)
Prerequisite: BUL 3130 AND FIN 3403 AND MAN 3025 AND MAR 3023
Students working in teams will brainstorm potential business options and develop a business plan to serve as a strategic roadmap for the proposed venture as well as the basis for seeking financial support from lenders and / or investors. Business plans will be presented to a jury of practitioners who will evaluate its practical merits and the presentation. Group projects will be utilized and oral and written reports will be required.

MAN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAN 4940 Internship in Management
1-6 sh (may not be repeated for credit)
On an “as available” basis, management majors may request an internship in management by submitting written proposals to faculty advisors. Proposals must be approved by advisor, chairperson and sponsor. Students must have a 2.5 GPA overall and a 3.0 GPA in management to be eligible for internships. All internships include seminar on internship experience, including written reports. Graded satisfactory / unsatisfactory basis only. Senior status required. Permission is required.

MAN 5116 Management of Diversity
3 sh (may not be repeated for credit)
Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles are provided. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse workforce toward a more productive unit. Offered concurrently with MAN 4102; graduate students will be assigned additional work. All majors encouraged. Graduate student status is required. Credit may not be earned in both MAN 5105 and MAN 5116.

MAN 5331 Compensation and Benefits
3 sh (may not be repeated for credit)
Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization’s strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 4330; graduate students will be assigned additional work.

MAN 5351 Staffing, Training, and Development
3 sh (may not be repeated for credit)
Employees are commonly recognized as an organization’s most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines the best practices in staffing, training and development so that students may learn how to establish and effectively manage both staffing systems and training and development programs. Offered concurrently with MAN 4350; graduate students will be assigned additional work.
MAN 5446 Business Negotiation
3 sh (may not be repeated for credit)
A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 4441; graduate students will be assigned additional work.

MAN 5806C Small Business Management Consulting
3 sh (may not be repeated for credit)
Practicum in providing management assistance to small businesses in area. Usually students work in pairs and provide assistance to two business firms. Weekly meetings, teaching in consulting and final written report on each firm constitute principal elements. Senior or graduate status, 3.0 GPA and permission are required.

MAN 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAN 6156 Management and Organizational Behavior
3 sh (may not be repeated for credit)
Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.) and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. May not be taken for credit by students having credit for INP 6397. Permission is required.

MAN 6511 Operations Management Problems
3 sh (may not be repeated for credit)
Planning and control of domestic and multinational service and manufacturing operations utilizing information inside and outside the organization. Techniques to plan and improve location, layout, flow through the facility, design of work, and management of the human factor; all with an emphasis on management and maintenance of quality. Contains a portfolio project.

MAN 6721 Strategic Management and Policy Formulation
3 sh (may not be repeated for credit)
Utilizes case analysis, a strategic simulation and other related experiential exercises. Integrates and applies the various business management functions from the strategic viewpoint of the organizational chief executive officer. Designed for M.B.A. candidates and should be taken the last semester before graduation. Permission is required.

MAN 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MARKETING Courses

MAR 3023 Marketing Fundamentals
3 sh (may not be repeated for credit)
Function of marketing in our economic system; role of the consumer in marketing decisions; the decisions marketing managers must make to provide goods and services priced, promoted and distributed to meet organizational objectives in changing environments.

MAR 3202 Supply Chain Logistics Management
3 sh (may not be repeated for credit)
Presents the fundamental elements of integrated supply chain and logistics management. It examines the strategic and operational decisions necessary to plan, implement, and control the procurement, storage, management, and distribution of materials, components, and finished goods. Emphasis is placed on product, service, information, and financial flows as facilitated by supply chain logistics strategies, transportation and distribution center operations, facility and network design, inventory and order management, customer service, information execution systems, and outsourcing decisions.

MAR 3370 Information Sources for Business Decisions
3 sh (may not be repeated for credit)
Focuses on various secondary information sources that may be used for business decisions. Students learn how secondary information is organized, what types of secondary information sources are available and how these sources may be effectively and efficiently searched. Emphasis is placed on learning the types of online information services and knowledge of when to use which service. A course project is designed to teach students to evaluate, integrate, and report information. A valuable tool in helping students access information; should be taken early in the junior year if possible. Students will be expected to have some familiarity with Windows and the Internet.

MAR 3503 Consumer Behavior
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
The study of people as customers of business - how they think and feel when making purchase choices and how they behave in the marketplace. Draws from theory in marketing, social psychology, anthropology, economics, and other social sciences to describe how customers respond to marketing strategies. Emphasis on how to use this in-depth understanding of the market to create winning marketing and business strategy.

MAR 3714 Sports Markets
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 AND ECO 2023 AND (ECO 3003 OR MAR 3023)
Systematic study of the spectator sports industry. The role and importance of the commercial sector is a particular emphasis. Focus on the structure and characteristics of sports markets and how to develop them with sports marketing.
MAR 3860 Customer Relationship Management  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Understanding the needs, desires and behavior of customers often determines which company will survive. Customer Relationship Management (CRM) is doing business through one-to-one relationships using new technological advances created by the information revolution. Focuses on customer development and retention, particularly for the firm’s best customers, with emphasis on the management of customer relationships.

MAR 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MAR 3948 Service Learning Field Study II  
1-3 sh (may be repeated for up to 4 sh of credit)  
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty “customize” courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student’s faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

MAR 4156 Seminar in International Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: GEB 4361  
Emphasis on the emergence of a global marketplace and significant new challenges facing business management in a competitive and rapidly changing international environment. Stresses the problems and challenges that differences in cultural, political, and socioeconomic environments introduce into the marketing process in international operations. Main focus is on the European Union, broadly interpreted to include countries throughout Europe. Foreign competitors and their effects on the American market will also be explored. Meets Multicultural requirement.

MAR 4231 Retail Strategy  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Instruction in beginning a successful management career in retailing. The retail firm is presented as an integral part of the overall supply chain with emphasis on entrepreneurial and small business retail strategy and operations applicable to a wide variety of industries. Focus is on equipping students with knowledge and skills necessary to create realistic and successful retail strategy.

MAR 4324 Integrated Marketing Communications: Principles  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Examines the principles of advertising, sales promotion, and related tools within the context of the overall marketing communications program. Focuses on the relationship of advertising, sales promotion, and other tools to marketing plans, the different types of strategic and tactical methods which can be employed, and the evaluation of the overall campaign.

MAR 4403 Sales Management  
3 sh (may not be repeated for credit)  
Analysis of the manager's role in sales force management and related organizational environments. Getting results through others by planning, organizing, staffing, directing, controlling, and motivating employees to achieve the organization’s objectives. The process of attaining influence, recognition, and power in an organization.

MAR 4412 Professional Selling Methods  
3 sh (may not be repeated for credit)  
Analysis of professional selling methodology including communication, persuasion, negotiation, and salesmanship. Evaluation of these principles in both business and social environments. Credit may not be received in both MAR 4412 and MAR 4701.

MAR 4613 Marketing Research  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023 AND STA 2023  
Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 5616; graduate students will be assigned additional work.

MAR 4721 Internet Marketing Principles  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Examines the principles of Internet Marketing in the context of an integrated marketing program. Internet marketing strategies and tactics will be examined in order to implement business operations on the Internet. Students will be exposed to Web design packages and techniques useful in the development of Internet Marketing Web sites.

MAR 4728 High Tech Product Marketing Strategy  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Emphasizes issues associated with marketing high-technology products in an environment of rapid technological change and ever increasing market demands, and focuses on the strategic decisions related to the development, pricing, distribution, and promotion of technology-based products.

MAR 4734 Internet Marketing Management  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 4721  
Development of advanced managerial skills relevant to the creation, design, and implementation of an integrated Internet marketing program. Students will create and deploy a real-world Internet business utilizing the advanced strategies, tactics, and planning mechanisms acquired. Credit may not be received in both MAR 4734 and MAR 4880.

MAR 4803 Marketing Strategy  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403 AND MAR 3503  
The integrative capstone experience for all marketing program specializations. Instructional focus is on blending knowledge gained in previous marketing and other business course work with advanced analysis skills in a strategic decision-oriented environment. Course relies primarily on case analysis as an instructional method. Should be taken in the last semester of the student’s program of study.
MAR 4841 Services Marketing
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
The US, as well as much of the world economy, is dominated by services. Service organizations such as banks, transportation companies, hotels, educational institutions, and consulting firms require a distinctive approach to marketing—both in its development and execution. This course will build and expand on ideas from Marketing Fundamentals and other marketing courses to address the distinct needs and challenges of managing services and delivering quality service to customers. Credit may not be received in both MAR 4841 and MAR 4842.

MAR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAR 4941 Marketing Internship
1-6 sh (may not be repeated for credit)
Prerequisite: MAR 3023
Supervised field practicum in marketing-related position. May include activities in any one or more functional areas of marketing (research, sales, advertising, promotion, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major courses and permission are required.

MAR 5616 Marketing Research
3 sh (may not be repeated for credit)
Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 4613; graduate students are required to write an additional research paper or its equivalent.

MAR 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAR 6815 Marketing Management
3 sh (may not be repeated for credit)
Creation of enduring and mutually satisfactory customer relationships through the provision of customer value as an enterprise management philosophy. With consideration given to operating environments, the course is designed to teach the formulation, implementation, and control of comprehensive marketing strategy with emphasis on the integrative aspects of the marketing function in a market based enterprise. Both qualitative and quantitative analyses are used in an applications oriented context. Contains a portfolio project.

MAR 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MARKT DISTRIB EDUCATION Courses

DEC 4401 Special Teaching Methods: Distributive Education
4 sh (may not be repeated for credit)
Develops skill and competencies in special methods for those teaching distributive education in secondary schools. Includes latest instructional materials and methods for cooperative / distributive education.

DEC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MASS MEDIA COMMUNICATIONS Courses

MMC 2000 Principles of Mass Communication
3 sh (may not be repeated for credit)
Principles, issues, organizations and functions of film, radio, television, print and other media of mass communication. Consideration of current practices and recent developments and their implications for the future direction of mass media. (General Studies Course: SS / SOC).

MMC 3261 Computer Mediated Communication
3 sh (may not be repeated for credit)
Examination of theoretical and practical issues emerging from the use of the Internet as a communication medium. Focus is on the legal, social, and ethical problems arising from the use of computers in communication. Students also acquire skills in creating content for the Web, and in critical analysis of Web sites. Applications of the Web for advertising, public relations and journalism are discussed. Basic familiarity with computer use and operating systems is required. Credit may not be received in MMC 3261 and MMC 3261C.

MMC 3601 Minorities and the Mass Media
3 sh (may not be repeated for credit)
Concerns of mass media as they pertain to minority issues; review of mass media portrayals of minorities; problems of minority access to mass media; prospects for mass media and cultural diversity in the 21st Century. Meets Multicultural requirement.

MMC 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MMC 4201 The Constitution and the Press
3 sh (may not be repeated for credit)
Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions. Offered concurrently with MMC 5206; graduate students will be assigned additional work.

MMC 4203 Media Ethics
3 sh (may not be repeated for credit)
Introduces students to classical ethical philosophies; presents various ethical decision-making strategies; application of ethical models to information-gathering and dissemination dilemmas; helps students form an ethical framework for future positions of responsibility in mass media industries; introduces students to the case method of instruction.

MMC 4252 Media Sales
3 sh (may not be repeated for credit)
The convergence of new and old technologies will redefine past concepts of the media. In this new, digital, interactive, high-cost, highly fragmented, and highly competitive media world, generating revenue is a top priority for survival. Sales people and sales managers have become more important to the media industry. Introduces students to the principles of media selling and sales management and prepares them for media selling and sales management jobs at a time when media companies are cutting back in almost every area except sales, where jobs are actually increasing.
MMC 4300 Global Communication
3 sh (may not be repeated for credit)
Study of comparative mass media systems (telecommunication, film and print media) and related problems and issues of culture, national development, foreign policy, national sovereignty, regulation and policy, information flow, propaganda, human rights and global trends in telecommunication. Offered concurrently with MMC 5306; graduate students will be assigned additional work. Senior standing is required. Meets Multicultural requirement.

MMC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MMC 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MATH: ALGEBRAIC STRUCTURES Courses

MAS 3105 Linear Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Systems of linear equation, row echelon form, matrix algebra, determinants and their properties, vector spaces, linear independence, base and dimension, row and column spaces, linear transformations and their matrix representations, similarity, inner product and orthogonality, eigenvalues and eigenvectors, diagonalization, applications of linear algebra. (Gordon Rule Course: Theoretical Math).

MAS 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAS 4156 Vector Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Vector algebra and calculus; line, surface and volume integrals, theorems of Green, Gauss and Stokes. (Gordon Rule Course: Theoretical Math).

MAS 4203 Number Theory
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Divisibility properties of integers, number-theoretic functions, Diophantine equations, theory of congruences and topics in cryptography. (Gordon Rule Course: Theoretical Math).

MAS 4301 Abstract Algebra
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Concepts of basic algebraic structures, set, group, ring, integral domain and field. (Gordon Rule Course: Theoretical Math).

MAS 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAS 5145 Matrix Theory
3 sh (may not be repeated for credit)
Canonical forms of matrices, similarity, quadratic forms.

MAS 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MATH: GENERAL FINITE Courses

MGF 1106 Mathematics for Liberal Arts I
3 sh (may not be repeated for credit)
Presents topics that illustrate both the aesthetic aspects and the practical applications of mathematics. Intended for students who require only general education mathematics courses. Major course topics: systematic counting, probability, statistics, history of mathematics, geometry, sets, logic. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT / MAT).

MGF 1107 Mathematics for Liberal Arts II
3 sh (may not be repeated for credit)
Presents topics that supplement those in MGF 1106 needed by elementary teachers. Intended for students in elementary education. Major topics: number sets and properties, number theory, geometry, measurement, graphs—all taught within a problem solving approach. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT / MAT).

MATH: HIST FOUNDATIONS Courses

MHF 3202 Set Theory and Mathematical Logic
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Basic set theory, propositional calculus, predicate calculus, methods of mathematical proof. (Gordon Rule Course: Theoretical Math).

MHF 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MHF 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MATH: TOPOLOGY GEOMETRY Courses

MTG 3203 Elementary Geometry
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105
A basic course that presents a variety of geometry topics using hands-on strategies. Students will employ paper-pencil, straight edge and compass, and the computer to solve problems related to polygons, lines, angles, circles, area, volume, similarity, and the Pythagorean theorem. Recommended for elementary / middle level Education majors. Math majors may not use this course to fulfill major requirements.

MTG 3212 Modern Geometry
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Axiomatic systems, non-Euclidean geometries, synthetic and algebraic projective geometry. Knowledge of high school geometry is required. (Gordon Rule Course: Theoretical Math).

MTG 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MTG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MTG 6348 Point set and algebraic topology
3 sh (may not be repeated for credit)
An introduction to the fundamental concepts of point set and algebraic topology. Topics covered include separation axioms, compactness, connectivity, completeness, simplicial topology, and homotopy. Applications to modern analysis and to the solution to classical geometrical problems. Must complete Abstract Algebra or have permission of instructor.

MATHEMATICS Courses

MAT 1033 Intermediate Algebra
4 sh (may not be repeated for credit)
Provides preparation in the elements of algebra that are required for higher mathematics and statistics courses. Covers basic principles and techniques of the following topics: factoring algebraic expressions, manipulation of algebraic fractions, radicals and exponents; complex numbers, linear, quadratic and rational equations, systems of linear inequalities and their graphical representation, introduction to functions. College preparatory algebra or appropriate score on placement test is required prior to taking this course. Credit towards Gordon or General Studies cannot be earned in MAT 1033.

MAT 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 4500 Undergraduate Proseminar in Mathematics/Statistics
1 sh (may not be repeated for credit)
Each senior (except students with the secondary track specialization) shall, under the supervision of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education. The student shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students with an opportunity to integrate the experience and knowledge they have gained during their undergraduate studies. Graded on satisfactory/unsatisfactory basis only. Senior standing and permission is required.

MAT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 6930 Proseminar in Mathematics
1 sh (may not be repeated for credit)
Each M.A. or M.A.T. candidate (except those who choose the thesis option) shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics / statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his / her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory / unsatisfactory basis only. M.A. candidacy and permission is required.

MAT 6971 Thesis
1-6 sh (may be repeated for up to 8 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

MATHEMATICS: ANALYSIS Courses

MAA 4211 Advanced Calculus I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MHF 3202
The theory of functions of a real variable. Inequalities, sequences, rigorous discussion of limits, continuity, differentiability and Riemann integrals. Basic concepts of point set topology on the real line. (Gordon Rule Course: Theoretical Math).

MAA 4212 Advanced Topics in Multi-Variable Calculus
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Differential and integral calculus of functions of several variables. Basic concepts of point set topology on the plane, partial derivatives, chain rule, multiple integrals and their transformations, infinite series, uniform convergence of sequences and series of functions. (Gordon Rule Course: Theoretical Math).

MAA 4402 Analytic Functions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Offered concurrently with MAA 5404; graduate students will be assigned additional work.

MAA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAA 5404 Analytic Functions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Senior standing is required. Offered concurrently with MAA 4402; graduate students will be assigned additional work.

MAA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MAA 6306 Real Analysis
3 sh (may not be repeated for credit)
A classical real analysis course begins with a typological study of the real number line and includes the Holder and Minkowski inequalities, and other classical inequalities; metric spaces, open and closed sets, convergence, Cauchy sequences, completeness, continuity; normed spaces. The course also includes the Lebesgue integral on the real line, convergence results for sequences of functions. Students are expected to have been exposed to rigorous discussions of limits, continuity, differentiability, Riemann integrals, and basic concepts of point set topology on the real line.

MAA 6426 Complex Analysis
3 sh (may not be repeated for credit)
Several advanced topics in the theory of complex variables are covered including analytic functions, harmonic functions, Cauchy's theorem and integral formula, maximum modulus principle, Laurent series, singularities, and the residue theorem. The course objective is to present in a rigorous manner the parts of the theory that are prominent in applications of the subject.

MAA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MATHEMATICS: APPLIED Courses

MAP 2302 Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313

MAP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAP 4115 Introduction to Stochastic Processes
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal Theory, Branching processes, Queueing systems, applications to quality control. (Gordon Rule: Mathematics-Applied). Offered concurrently with MAP 5116; graduate students will be assigned additional work.

MAP 4341 Partial Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302
First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 4341; graduate students will be assigned additional work.

MAP 5116 Introduction to Stochastic Processes
3 sh (may not be repeated for credit)
General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal theory, Branching processes, Queueing systems, applications to quality control. Offered concurrently with MAP 4115; graduate students will be assigned additional work.

MAP 5345 Partial Differential Equations
3 sh (may not be repeated for credit)
First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 4341; graduate students will be assigned additional work.

MAP 5471 Advanced Probability and Inferences
3 sh (may not be repeated for credit)
Advanced topics in probability, limit theorems, limiting distributions, order statistics, weak law of large numbers, strong law of large numbers, central limit theorem. Advanced topics in point and interval estimation, measures of quality of estimates, Exponential families, Complete families, Unbiasedness, Cramer-Rao inequality, Rao-Blackwell theorem, minimum variance unbiased estimators, maximum likelihood estimators principles, Bayes' and minimax estimation, Robust estimation; Advanced hypothesis testing.

MAP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAP 6106 Mathematical Methods of Operations Research I
3 sh (may not be repeated for credit)
Mathematical linear programming models, theory of simplex method, revised simplex methods, dual simplex methods; duality theory and sensitivity analysis, transportation problems, theory of integer programming. Credit may not be received for both MAP 6106 and STA 6607.

MAP 6107 Mathematical Methods of Operations Research II
3 sh (may not be repeated for credit)
Interior-point algorithm, linear goal programming, game theory, nonlinear programming, network analysis, PERT / CPM, queuing theory. Credit may not be received in both MAP 6107 and STA 6608.

MAP 6108 Mathematical Modeling and Initial and Boundary Value Problems
3 sh (may not be repeated for credit)
Methodology and framework for mathematical modeling. Current topics in applied mathematics will be presented emphasizing the interdependency of mathematics and its applications to physical, societal and other "real world" phenomena.

MAP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MATHEMATICS: DISCRETE Courses

MAD 3107 Discrete Mathematics and Applications
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Introductory combinatorics, counting, graphs and trees, and their applications; relations and partial orders; some algorithms associated with applications of graphs, trees, and relations.

MAD 4301 Graphs and Their Application
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite Graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 5305; graduate students will be assigned additional work.
MAD 4401 Numerical Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAS 3105

Numerical solutions of equations in one variable, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions of initial value and boundary value problems for O.D.E., direct methods for solving linear systems, iterative techniques in matrix algebra. Some problems solved with aid of computer. A computer language is required prior to this course. (Gordon Rule Course: Theoretical Math).

MAD 4605 Coding Theory
3 sh (may not be repeated for credit)
Prerequisite: MAS 3105

Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 5608; graduate students will be assigned additional work.

MAD 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAD 5305 Graphs and Their Applications
3 sh (may not be repeated for credit)

Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 4310; graduate students will be assigned additional work.

MAD 5608 Coding Theory
3 sh (may not be repeated for credit)

Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 4605; graduate students will be assigned additional work.

MAD 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAD 6405 Numerical Analysis I
3 sh (may not be repeated for credit)

Theoretical treatment of numerical methods of linear algebra supplemented with use of computers; polynomial approximations, uniform approximations, least square approximations, error analysis for numerical solutions of linear equations, algebraic eigenvalue problems.

MATHMATICS: EDUCATION Courses

MAE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAE 4320 Teaching Mathematics in the Middle and Secondary Schools
3 sh (may not be repeated for credit)

Theory and methods of teaching mathematics in the middle and secondary schools; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics. Material and supply fee will be assessed.

MAE 4310 Teaching Mathematics in the Elementary School
3 sh (may not be repeated for credit)

Theory and methods for teaching mathematics in the elementary school; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics. Material and supply fee will be assessed.

MAE 4657 Mathematics for the 21st Century
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 5658; graduate students will be assigned additional work.

MAE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAE 5338 Teaching Geometry Concepts in Secondary Education
3 sh (may not be repeated for credit)

For graduate students in mathematics education. Topics include Euclidean and analytic geometry, inductive and deductive reasoning, two- and three-dimensional figures. Admission to Teacher Education and permission is required.

MAE 5658 Mathematics for the 21st Century
3 sh (may not be repeated for credit)

Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 4657; graduate students will be assigned additional work.

MAE 6115C Teaching Mathematics in Elementary Education
3 sh (may not be repeated for credit)

Analysis and evaluation of new programs and practices in teaching elementary school mathematics, including study of effects of these programs on teaching methods and materials; lab experiences including design, field testing and evaluation of activity-oriented lessons in mathematics and development of competence in the use of teaching aids in mathematics instruction; contemporary approaches to teaching elementary mathematics concepts and problem solving; development of competence in the use of alternative assessment techniques. Material and Supply fee will be assessed.

MAE 6361 Teaching Mathematics in Middle Level and Secondary Education
3 sh (may not be repeated for credit)
Prerequisite: EDM 6944 OR ESE 6944

Assists middle and secondary level teachers to develop theoretical understanding and skills necessary to teach in a manner consistent with current reform efforts in mathematics education. Focuses on components of understanding mathematics teaching and learning: 1) how students learn mathematics; 2) the role of the teacher in delivering effective mathematics lessons. Credit may not be earned in both MAE 6360 and MAE 6361. Material and Supply fee will be assessed.

MAE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MAT 8980 Ed. D. Dissertation in Mathematics Education
1-18 sh (may be repeated for up to 36 sh of credit)

Major independent research designed especially for candidates in the Ed. D. curriculum and instruction program with specialization in mathematics / statistics; mathematics education. This dissertation will reflect intensive research produced by the student and collaboratively developed with the student’s graduate committee. Graded on satisfactory / unsatisfactory basis only. Admission to candidacy and permission of Dissertation advisor is required.

MATHEMATICS: CALC PRECALC Courses

MAC 1105 College Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAT 1033 OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math OR 83 CPT Elemen. Algebra

Provides the concepts and techniques of algebra that are needed to understand subjects such as statistics and economics which contain a considerable amount of quantitative reasoning. Is additionally a preparatory course for the study of calculus. Major topics include: the concept of functions, graphs of functions and relations, operations on functions, rational functions, exponentials and logarithms, systems of equations and inequalities, applications. Prerequisite course or appropriate score on placement test is required. Students may earn 3 semester hours credit toward Gordon Rule for MAC 1105. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT / ALG).

MAC 1114 Trigonometry
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1140

Trigonometric functions, their properties and graphs, inverse trigonometric functions, their properties and graphs, trigonometric identities, conditional trigonometric equations; solutions of triangles, vector algebra, parametric equations, polar coordinates, applications. College Algebra or a strong high school algebra background is required. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT / MAT).

MAC 1140 Precalculus Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114 OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math OR 83 CPT Elemen. Algebra

Stresses the aspects of algebra that are important for the calculus sequence. Lays emphasis on graphs in the study of functions and algebraic relations. Covers polynomials; rational functions; logarithmic, exponential, and piecewise defined functions; inequalities; conic sections; matrices; sequences, and series; mathematical induction. Prerequisite course or appropriate score on placement test is required. Students may earn 3 semester hours credit toward Gordon Rule for MAC 1140. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT / ALG).

MAC 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAC 2233 Calculus with Business Applications
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114 OR MAC 1140

Sets and functions; derivatives; areas under a curve; integration; exponentials and logarithms; applications of derivatives and integrals. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MAC 2311 Analytic Geometry and Calculus I
4 sh (may not be repeated for credit)
Prerequisite: MAC 1114 AND MAC 1140

Differential and Integral Calculus of Algebraic, Trigonometric, and Transcendental functions of single variables. Related applications. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT / MAT).

MAC 2312 Analytic Geometry and Calculus II
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Application of the Definite Integral. Hyperbolic and Inverse Trigonometric Functions. Methods of Integration. Sequences and Infinite Series. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT / MAT).

MAC 2313 Analytic Geometry and Calculus III
4 sh (may not be repeated for credit)
Prerequisite: MAC 2312


MAC 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAC 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAC 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MEDICAL LABORATORY SCIENCE Courses

MLS 3031 Introduction to Clinical Laboratory Science
2 sh (may not be repeated for credit)

Survey course in clinical laboratory sciences. Introduction to the profession, scope of practice, state/federal laws and regulations, code of ethics, and career opportunities. Classroom instruction and field trips to various sections in a clinical laboratory: hematology, clinical chemistry, diagnostic microbiology, immunohematology, serology, and molecular diagnostics.

MLS 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MLS 4191 Molecular Diagnostics
2 sh (may not be repeated for credit)
Prerequisite: MLS 4625 AND MLS 4630
Co-requisite: MLS 4191L

This course offers fundamentals of clinical diagnosis and management of disease by molecular biology laboratory methods. Two broad areas in the current state of the art will be addressed: molecular diseases/variants and molecular methods to diagnose and monitor disease. Disorders due to inherited or acquired molecular defects such as errors of metabolism, hemoglobinopathies, leukemia, and cystic fibrosis are discussed. Principles and procedures for the diagnosis and management of infectious diseases by molecular methods are also included. The discussion of molecular approaches to diagnosing and monitoring these diseases will span the conventional methods of PCR, gel electrophoresis and Southern Blotting to semi-automated methods of TMA, LCR and Real-time PCR. A survey of molecular diagnostic methods currently available in various sections of a clinical laboratory is included. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4191L Molecular Diagnostics Laboratory
0 sh (may not be repeated for credit)
Prerequisite: MLS 4625 AND MLS 4630
Co-requisite: MLS 4191

Methods for specimen collection and handling, contamination control, amplification and detection of genetic material from humans and microorganisms. Methodologies include PCR, electrophoresis for DNA and proteins, densitometry, Southern Blot and Western Blot techniques. Material and Supply fee will be assessed. Permission is required.

MLS 4220 Urinalysis/Body Fluids I
2 sh (may not be repeated for credit)
Co-requisite: MLS 4220L

Teaches the entry level clinical laboratory scientist the physiology, routine testing and interpretation for the following body fluids: urine, cerebrospinal fluid, semen, sweat, serous fluids (peritoneal, pleural, pericardial, synovial), and dialysates. Correlation of lab findings to various disease conditions is stressed. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4220L Urinalysis/Body Fluids I
0 sh (may not be repeated for credit)
Co-requisite: MLS 4220

Corresponding Lab for Urinalysis / Body Fluids I.

MLS 4305 Hematology I
4 sh (may not be repeated for credit)
Prerequisite: PCB 2131
Co-requisite: MLS 4305L

Study of production, maturation and morphology of normal and abnormal human blood cells. Pathological changes in morphology, cytochemistry and distribution of cells in peripheral blood and bone marrow. Manual and automated methods for blood cell counts, hemoglobin measurement and other hematologic parameters. Purpose, principle and clinical value of routine and special procedures. Quality control and quality assurance processes in a clinical hematology laboratory. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4305L Hematology I Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4305

Corresponding lab for Hematology I.

MLS 4334 Hemostasis and Thrombosis
2 sh (may not be repeated for credit)
Co-requisite: MLS 4334L

Role of blood vessels, platelets and coagulation factors in normal hemostasis. Platelet morphology and function, laboratory tests for evaluation of platelets, and platelet disorders. Study of coagulation factors, coagulation pathways, and inherited and acquired coagulation disorders. Normal fibrinolysis and disorders of fibrinolysis. Physiologic and pathologic coagulation inhibitors and their role in normal and abnormal hemostasis. Diagnosis and management of hemorrhagic diseases. Thrombotic disorders and their management by anticoagulant therapy and fibrinolytic therapy. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4334L Hemostasis and Thrombosis Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4334

Corresponding lab for Hemostasis and Thrombosis.

MLS 4460 Diagnostic Microbiology I
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020/L
Co-requisite: MLS 4460L

Study of bacteria associated with infectious diseases. Includes microbial taxonomy, physiology, genetics and host-parasite relationships as they apply to clinical microbiology. Pathogens of particular organ systems, pathogenesis of infectious disease, clinical manifestations, etiology and epidemiology of disease are covered. Interpretation of test results and clinical relevance are taught utilizing case studies. Permission is required. Equipment Fee will be assessed.

MLS 4460L Diagnostic Microbiology I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 3020/L
Co-requisite: MLS 4460

Methods for specimen collection, handling and processing of human tissues and body fluids for isolation and identification of bacteria. Conventional and rapid identification methods for clinically significant bacteria, principles of automation, susceptibility testing, infection control, and quality assurance procedures are included. Material and supply fee will be assessed. Permission is required.

MLS 4462 Medical Microbiology
4 sh (may not be repeated for credit)
Prerequisite: MCB 3020/L
Co-requisite: MLS 4462L

Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4462L Medical Microbiology Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4462

Corresponding lab for Medical Microbiology.
MLS 4505 Serology
2 sh (may not be repeated for credit)
Co-requisite: MLS 4505L
Diagnostic tests by clinical immunology and serology methods. Principles and practical applications of laboratory methods based on the detection of specific and non-specific immune responses to foreign or autologous antigens. Traditional serological methods for diagnosis of bacterial, viral, and fungal organisms. Latest immunological and molecular methods for detection and confirmation of HIV, hepatitis, HTLV, chlamydia, rubella and other significant pathogens. Lab methods for diagnosis of SLE and other autoimmune diseases. Basics of hypersensitivity reactions and transplantation immunology. Material and Supply Fee will be assessed to corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4505L Serology Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4505
Corresponding lab for Serology.

MLS 4550 Immunohematology I
4 sh (may not be repeated for credit)
Co-requisite: MLS 4550L
Fundamentals of blood group immunology. Pre-transfusion testing of patient blood and donor blood for compatibility. Antigens, antibodies and their properties in clinically significant blood group systems. ABO & RH typing, compatibility testing and special tests. Antibody screen and identification, Autoimmune Hemolytic Anemia and Hemolytic Disease of the Newborn. Transfusion therapy, hazards of transfusion and investigation of transfusion reactions. Donor selection, collection of donor blood and testing for infectious agents. Preparation, storage and utilization of blood components. Regulations, medico-legal and ethical aspects of transfusion services. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4550L Immunohematology I Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4550
Corresponding lab for Immunohematology I.

MLS 4625 Clinical Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: MLS 4625L
Introduction to the basic principles and procedures of clinical chemistry. Lecture and lab devoted to chemical analysis of blood and other body fluids. Lab safety, specimen collection/handling/storage; lab mathematics, basic lab instrumentation and automation, data management, reference range determination and quality control monitoring will be stressed throughout the course. This class will discuss the pathophysiology and diagnostic testing related to the metabolism of carbohydrates and lipids, assessments of diabetes and diabetic risk, assessments of cardiac risk and monitoring and prognosis following myocardial infarction. Methodologies discussed include spectrophotometry, immunodiagnosis and computer generated analyses. Students will participate in class discussions about recent research in clinical chemistry which will be presented in the forms of abstracts, research papers and figures. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4625L Clinical Chemistry I Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4625
Lab devoted to the chemical analysis and interpretation of blood and other bodily fluids. Selected experiments in diabetes and cardiovascular disease risk assessment and monitoring. Safety, instrumentation and quality control will be stressed. Methodologies discussed include spectrophotometry, immunodiagnosis, and computer generated analyses. Material and Supply fee will be assessed. Permission is required.

MLS 4630 Clinical Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: MLS 4625/L
Co-requisite: MLS 4630L
This course continues where Clinical Chem I left off, discussing kidney function, electrolytes, blood gases, acid-base balance, mineral metabolism, enzyme measurement, liver function studies, and pancreatic function assessment. It also includes the more esoteric tests involved in testing endocrine function, therapeutic drug monitoring, toxicology, tumor markers, and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Reading and disseminating research in the discipline is emphasized in the format of a journal club. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4630L Clinical Chemistry II Lab
0 sh (may not be repeated for credit)
Prerequisite: MLS 4625/L
Co-requisite: MLS 4630
This course covers laboratory procedures evaluating kidney and liver function, electrolytes, acid-base balance, mineral metabolism, enzyme measurements, toxicology and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Material and Supply fee will be assessed. Permission is required.

MLS 4705 Special Clinical Topics
1 sh (may not be repeated for credit)
Fundamentals of clinical laboratory management, supervision and educational methodologies are covered. Students are introduced to clinical laboratory operations in areas of financial and human resource management, marketing of laboratory services, communications with other health care professionals, laboratory information systems and regulatory compliance with applicable regulatory agencies. Other special clinical topics related to education and training, lab safety, HIV / AIDS, prevention of medical errors, professional ethics and career planning are presented.

MLS 4820L Clinical Chemistry III
4 sh (may not be repeated for credit)
Prerequisite: MLS 4625 AND MLS 4630
Application of clinical chemistry principles and techniques presented in Clinical Chemistry I and II. Supervised practice in the hospital laboratory. Permission is required.
MHS 6800 Guidance and Counseling Practicum
3 sh (may not be repeated for credit)
Under the supervision of a practicing counselor and university supervisor, students will demonstrate their knowledge and abilities in the role of individual and group counseling, collaborator with other educators, and coordinator of guidance services. All coursework in the guidance and counseling certification program, and permission is required.

**MENTAL HEALTH SERVICES Courses**

MCB 1000 Fundamentals of Microbiology
3 sh (may not be repeated for credit)
Co-requisite: CHM 1032,CHM 1032L
An introductory microbiology course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. (General Studies Course: NS / LEC).

MCB 1000L Fundamentals of Microbiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 1000
An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. (General Studies Course: NS / LAB).

MCB 3020 Microbiology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)) AND CHM 2210
Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment.

MCB 3020L Microbiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 3020
Microbial morphology, physiology, and taxonomy; relationships of microorganisms to total environment. Material and Supply Fee will be assessed.

MCB 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**MICROBIOLOGY Courses**

MCB 3000 Fundamentals of Microbiology
4 sh (may not be repeated for credit)
An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. (General Studies Course: NS / LAB).

MCB 3000L Fundamentals of Microbiology Laboratory
2 sh (may not be repeated for credit)
Prerequisite: MCB 3000
An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. (General Studies Course: NS / LAB).

MCB 4305/L Hematology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Continuation of Immunohematology I. Advanced practical training in automated hematology instrumentation, routine and special procedures in hematology lab, and practice of quality control methods, maintenance and trouble shooting of clinical hematology equipment. Training includes all aspects of clinical lab medicine in a modern hematology / coagulation lab and prepares the student to assume responsibility as a medical technologist. Permission is required.

MCB 4460/L Immunohematology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4450/L
Continuation of Immunohematology I, at one of the affiliate hospitals. Advanced practical training in modern blood banking and transfusion services at the hospital. Training includes practice and performance, under supervision, of all the procedures involving pre-transfusion tests on patient's blood, selection of donor blood, compatibility determination, problem solving, release of suitable blood/blood components for transfusion therapy. Permission is required.

MCB 4821L Diagnostic Microbiology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MCB 4822L Hematology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4305/L
Application of Hematology I. Advanced practical training in automated hematology instrumentation, routine and special procedures in hematology lab, and practice of quality control methods, maintenance and trouble shooting of clinical hematology equipment. Training includes all aspects of clinical lab medicine in a modern hematology / coagulation lab and prepares the student to assume responsibility as a medical technologist. Permission is required.

MCB 4823L Immunohematology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4550/L
Continuation of Immunohematology I, at one of the affiliate hospitals. Advanced practical training in modern blood banking and transfusion services at the hospital. Training includes practice and performance, under supervision, of all the procedures involving pre-transfusion tests on patient's blood, selection of donor blood, compatibility determination, problem solving, release of suitable blood/blood components for transfusion therapy. Permission is required.

MCB 4824L Special Clinical Methods
2 sh (may not be repeated for credit)
Supervised practice in a hospital laboratory. Special methods in clinical laboratory sciences, including non-routine (special) chemistry procedures and methods in immunodiagnostics, mycobacteriology and clinical mycology. Permission is required.

MCB 4825L Urinalysis/Body Fluids II
2 sh (may not be repeated for credit)
Supervised practice in a hospital laboratory in the analysis of urine and other body fluids; techniques in parasitology and phlebotomy procedures. Permission is required.

MCB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MCB 4931 Advances in Biomedical Technology
1-12 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MCB 4932 Directed Study
1-12 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MCB 4933 Directed Study
1-12 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MCB 4934 Directed Study
1-12 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MCB 4935 Directed Study
1-12 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.
MCB 4276 Epidemiology of Infectious Disease  
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 5273; graduate students will be assigned additional work.

MCB 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MCB 5273 Epidemiology of Infectious Disease  
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 4276; graduate students will be assigned additional work.

MCB 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MCB 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**MILITARY SCI LEADERSHIP Courses**

MSL 1001 Foundations of Officership  
1 sh (may not be repeated for credit)

Introduces freshmen-level students to issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Additionally, "life skills" including fitness and time management are addressed. Designed to give the student accurate insight into the Army profession and the officer's role within the Army. Material and supply fee will be assessed.

MSL 1002 Basic Leadership  
1 sh (may not be repeated for credit)

Establishes foundation of basic leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting, techniques for improving listening and speaking skills, and an introduction to counseling. Material and supply fee will be assessed.

MSL 1905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MSL 2101 Individual Leadership Studies  
2 sh (may not be repeated for credit)

Designed to develop cadet's knowledge of self, self-confidence, and individual leadership skills. Cadets develop problem solving and critical thinking skills, and apply communication, feedback and conflict resolution skills through experiential learning activities. Material and supply fee will be assessed.

MSL 2102 Leadership and Teamwork  
2 sh (may not be repeated for credit)

Study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process, and obtaining team buy-in through immediate feedback. Material and supply fee will be assessed.

MSL 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MSL 3201C Tactical Leadership  
3 sh (may not be repeated for credit)

Challenges students to study, practice, and evaluate adaptive leadership skills as presented with the demands of preparing for the ROTC Leadership Development and Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills. Students receive systematic and specific feedback on leadership abilities and begin to analyze and evaluate their own leadership values, attributes, skills, and actions. Material and Supply Fee will be assessed. Permission is required.

MSL 3202C Applied Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: MSL 3201C

Uses increasingly intense situational leadership challenges to build student awareness and skills in leading tactical operations. Builds on the lessons learned in MSL 3201C by increasing the size and scope of the student's management responsibilities. Students also learn to communicate using military briefings and by writing military orders. Emphasis is placed in exploring, evaluating, and developing skills in decision making, persuading, and motivating team members. Material and Supply Fee will be assessed. Permission is required.

MSL 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MSL 4301C Developmental Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: MSL 3201C AND MSL 3202C

Develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff and providing leadership, and performance feedback to underclassmen. Students are provided situational opportunities to assess risk, make ethical decisions, and provide coaching to fellow students. Permission is required. Material and Supply Fee will be assessed.

MSL 4302C Leadership in a Complex World  
3 sh (may not be repeated for credit)  
Prerequisite: MSL 4301C

Uses the Socratic model of reflective learning. Students analyze and evaluate the skills of others while simultaneously considering their own leadership skills. Students must complete a semester long Senior Leadership Project that requires them to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Permission is required. Material and Supply Fee will be assessed.

MSL 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)
MUSIC Courses

MUE 2040 Introduction to Music Teaching
2 sh (may not be repeated for credit)
A foundation course for potential music educators. An overview of the music education profession and its relationship to mainstream education issues; includes 10 hours of initial observations/participation in local school classrooms. Permission is required.

MUE 3210 Music for the Elementary School Teacher
2 sh (may not be repeated for credit)
Overview of music program for elementary children. Music methods and instructional materials for elementary music program through activities in singing, listening, playing and moving to music. No previous experience in music necessary. Material and supply fee will be assessed.

MUE 3311 Methods for the Elementary School Music Teacher
2 sh (may not be repeated for credit)
How to teach music in the elementary school. Includes “how to” instruction in teaching general music and how to begin and maintain an elementary choral program. For music majors only.

MUE 3312 Kodaly Method
3 sh (may not be repeated for credit)
Presents specific suggestions for teaching music to pre-K and elementary school students, based on the Kodaly Method as practiced in the United States, Canada and Hungary. Offering background material, general ideas, and specific techniques, will train students to utilize the Kodaly concepts effectively, even if they have not had previous experience with this speech.

MUE 3413 Chamber Music Coaching
1 sh (may be repeated for up to 4 sh of credit)
Chamber Music Coaching is a class to teach musicians how to prepare small ensembles for performance. The class includes participation in a chamber ensemble and instruction on coaching. It is required of all Music Ed majors and open to all other majors. Permission is required.

MUE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUE 4330 Music in the Middle and Secondary Schools
2 sh (may not be repeated for credit)
Prerequisite: MUE 2040 AND MUE 3311
The organization and administration of general, choral, and instrumental music in middle and high schools. Permission is required.

MUE 4343 String Methods and Materials
2 sh (may not be repeated for credit)
Designed to teach Music Ed majors how to begin and implement a string program in the school system. It includes strategies for teaching strings in group settings.

MUE 4411 Special Methods/Choral Techniques
2 sh (may not be repeated for credit)
Problems related to choral conducting with practical application of applicable choral techniques at all levels, elementary through high school. Includes choral and full score study, repertoire for various levels and observations in the public schools of choral music classes.

MUE 4451 Woodwind Instrument Methods and Materials
2 sh (may not be repeated for credit)
Woodwind instruments, playing techniques, reed making techniques, instrument maintenance, history methodology, pedagogy, literature for solo and ensemble experiences. Observations of representative public school programs of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4465 Brass Instrument Methods and Materials
2 sh (may not be repeated for credit)
Brass instrument playing techniques, pedagogy, literature and materials. Required of students in music teaching track.

MUE 4475 Percussion Methods and Materials
2 sh (may not be repeated for credit)
Percussion instruments, playing techniques, history, methodology, pedagogy and literature for solo and ensemble experiences. Observations of representative public school programs required of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4493 Special Methods/Instrumental Techniques
2 sh (may not be repeated for credit)
Prerequisite: MUT 4311
Problems in organization and administration of school instrumental groups at all levels, elementary through high school including marching bands, jazz bands, and band parent organizations. Advanced conducting of instrumental music; study of baton techniques and score analysis; practical applications to performance. Observation of music programs in public schools with emphasis on large and small performing ensembles.

MUE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUE 4940 Music Education Internship
9 sh (may not be repeated for credit)
Music Education Internship is a semester long course allowing the student the opportunity to intern in the local school system under the supervision of an experienced music teacher in their area of study. The student is advised not to take other classes or pursue employment during the semester of internship. Internship assignments will be made by the Music Education Coordinator and will be limited to the Pensacola area. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

MUE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUSIC Courses

MUS 2241 Diction for Singers I: Italian
1 sh (may not be repeated for credit)
Study of stage pronunciation and enunciation in Italian with comparisons made to the sound in English, and utilizing the International Phonetic Alphabet.
MUS 2360 Music Technology  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 2116  
Designed to equip music students with the technological skills necessary and ongoing for the application of music software in all venues. Major emphasis on working knowledge of mainstream software and its applications in music composition, education and performance. Freshman and sophomore theory requirements are needed. Material and supply fee will be assessed.

MUS 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MUS 3253 Diction for Singers II: French/German  
1 sh (may not be repeated for credit)  
Prerequisite: MUS 2241  
Study of stage pronunciation and enunciation in French and German with comparisons made to the sounds in English, and utilizing the International Phonetic Alphabet. Student must be enrolled in applied voice either on the major or minor level.

MUS 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MUS 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MUSIC: CONDUCTING Courses

MUG 2101 Conducting  
2 sh (may not be repeated for credit)  
Applied conducting of vocal and instrumental music; basic concepts and practices of conducting of simple and complex meters; study of baton technique and score analysis; practical applications to performance.

MUSIC: ENSEMBLES Courses

MUN 1310 The University of West Florida Singers  
1 sh (may be repeated indefinitely for credit)  
Chorus of mixed voices preparing for performances throughout the year. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman / sophomore level only. Material and Supply Fee will be assessed.

MUN 1360 Madrigal Singers  
1 sh (may be repeated indefinitely for credit)  
Select mixed choral ensemble performing acappella Renaissance music. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman / sophomore level only. Material & Supply Fee will be assessed.

MUN 2210 Symphony Orchestra  
1 sh (may be repeated indefinitely for credit)  
A college level orchestra which performs great literature of the past and present. Open to all majors with prior orchestral experience. Permission / audition is required. Material and Supply Fee will be assessed.

MUN 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MUN 3133 The University of West Florida Symphonic Band  
1 sh (may be repeated indefinitely for credit)  
Group of wind and percussion instrumentalists. Open to all qualified students. Interested students should contact the music office. Previous instrumental experience required. Material and Supply Fee will be assessed.

MUN 3213 Advanced Symphony Orchestra  
1 sh (may be repeated for up to 18 sh of credit)  
Symphony Orchestra is a college level orchestra which performs great literature of the past and present. The orchestra is open to all majors with prior orchestral experience. Permission is required. Material and Supply Fee will be assessed.

MUN 3313 Advanced University Singers  
1 sh (may be repeated indefinitely for credit)  
Chorus of mixed voices preparing for performances throughout the year. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience required. For junior and senior standing only. Material and Supply Fee will be assessed.

MUN 3363 Advanced Madrigal Singers  
1 sh (may be repeated indefinitely for credit)  
Select mixed choral ensemble performing a cappella Renaissance music. Open to all students by audition. Rehearsals according to schedule. Previous choral experience required. For junior and senior levels only. Material and Supply Fee will be assessed.

MUN 3443 Percussion Ensemble  
1 sh (may be repeated for up to 8 sh of credit)  
The percussion ensemble will rehearse and perform a variety of music: music from South America, the Caribbean, Africa and the Middle East that features percussion. Approval of instructor, possible audition to demonstrate an understanding of performance technique and sight reading skills.

MUN 3483 Guitar Ensemble  
1 sh (may be repeated for up to 10 sh of credit)  
The UWF Guitar Ensemble is a performing instrumental organization which meets on a regular basis for rehearsals and performs often for community groups, college functions, and local schools and clubs. Required of guitar performance majors. Open to all majors. Permission required. Material and Supply Fee will be assessed.

MUN 3713 Jazz Combo  
1 sh (may be repeated indefinitely for credit)  
Performance oriented small group of various sizes. Literature and instrumentation are based upon student and departmental needs. Material and Supply Fee will be assessed.

MUN 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MUN 4411 String Quartet  
1 sh (may be repeated for up to 8 sh of credit)  
An ensemble to explore the vast literature in the string quartet genre. May be expanded by an additional instrument for certain works. Material and Supply Fee will be assessed.
MUN 4714 The University of West Florida Jazz Band
1 sh (may be repeated indefinitely for credit)
Standard jazz ensemble instrumentation. Opened to qualified students depending on needed instrumentation. Material and Supply Fee will be assessed.

MUN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**MUSIC: HISTORY/MUSICOCOLGY Courses**

MUH 2930 The Music Experience: Special Topics
3 sh (may be repeated for up to 9 sh of credit)
With a non-traditional and multi-cultural approach, specific topics in music are offered each semester. Topics vary each semester but include such areas as Latin American Music, Jazz, Eastern European Music, Music of the Far East, etc. Consult the current course bulletin for semester topic. (General Studies Course: HUM / FA) Meets Multicultural requirement.

MUH 3211 History of Western Music I: End of Ancient World Through 17th Century
3 sh (may not be repeated for credit)
First of two courses designed to increase student's understanding of history and literature of music. Music in Western Civilization from and of ancient world through 17th century. Three hours per week. Listening assignments in Music Listening Library. (Gordon Rule Course: Wrtg).

MUH 3212 History of Western Music II: 18th through 20th Centuries
3 sh (may not be repeated for credit)
Continuation of music history and literature sequence. Vocal and instrumental idioms of 18th-20th centuries emphasizing works of major composers. (Gordon Rule Course: Wrtg).

MUH 3662 Film Music
3 sh (may not be repeated for credit)
Surveys the importance of music in films, perhaps the most important entertainment and artistic medium of the 20th century. The material will progress from the silent film era to the present day. Students will learn the basics of filmmaking, the important basic musical elements (melody, rhythm, harmony, etc.) and how composers use them in film scoring.

MUH 3801 Jazz History
3 sh (may not be repeated for credit)
Will explore the rich heritage in Jazz from its roots in ragtime to the present day. Includes detailed studies of some of the great jazz musicians such as Duke Ellington, Count Basie, Ella Fitzgerald, Glen Miller, etc.

MUH 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUH 4095 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUH 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**MUSIC: LITERATURE Courses**

MUL 2110 Music in Western Civilization
3 sh (may not be repeated for credit)
Musical perspectives within Western civilization. Designed to express the correlation of music, art, and literature with Western culture. Special emphases include the nature of music, both past and present, and music as reflection / expression of society's vital activities. (General Studies Course: HUM / FA). Credit cannot be earned in both MUL 2110 and MUL 2110.

MUL 3503 Symphonic and String Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 AND MUT 3611
Overview of Orchestral and small string ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3511 Band and Wind Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 AND MUT 3611
Overview of Symphonic Band and small chamber wind ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3551 Band and Wind Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 AND MUT 3611
Overview of Orchestral and small string ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3602 Vocal Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 AND MUT 3611
Overview of solo vocal literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of solo song, its significant composers, forms and styles from the Renaissance to the present in the four major singing languages; French, German, Italian, and English. Permission is required.

MUL 3643 Choral Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 AND MUT 3611
Overview of choral literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of the major compositions, composers, forms and styles from the Renaissance to the present. Permission is required.

MUL 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUL 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUL 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**MUSIC: OPERA/MUS THEATRE Courses**

MUO 3503 Advanced Opera Studio
1 sh (may be repeated indefinitely for credit)
Study of the techniques of characterization, dramatic analysis, and ensembles singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a series of opera scenes recitals. Audition and permission required. Open to junior and senior levels only.
MUO 4504 Opera Workshop  
3 sh (may not be repeated for credit)  
An interdisciplinary, performance-oriented study of the techniques of characterization, dramatic analysis, and ensemble singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a recital in order to integrate singing skills and characterization skills for opera and musical theatrical performance.

**MUSIC: THEORY Courses**

**MUT 1111 Freshman Theory**  
3 sh (may not be repeated for credit)  
Co-requisite: MUT 1271  
Basic fundamentals of music theory, including meter and rhythm, tonic, dominant and sub dominant harmony, cadences, major and minor tonality, and inverted triads. Required of all students majoring in music; non-music majors must have departmental permission.

**MUT 1112 Freshman Theory II**  
3 sh (may not be repeated for credit)  
Prerequisite: MUT 1111 AND MUT 1271  
Co-requisite: MUT 1272  
Continuation of MUT 1111, including non-harmonic tones, secondary triads, principles of chord progressions, use of harmonic sequence, primary seventh chords and secondary dominants.

**MUT 1271 Freshman Theory Lab**  
1 sh (may not be repeated for credit)  
Co-requisite: MUT 1111  
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

**MUT 1272 Freshman Theory II Lab**  
1 sh (may not be repeated for credit)  
Co-requisite: MUT 1112  
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

**MUT 1905 Directed Study**  
1-12 sh (may be repeated indefinitely for credit)

**MUT 2116 Sophomore Theory**  
3 sh (may not be repeated for credit)  
Prerequisite: MUT 1112 AND MUT 1272  
Co-requisite: MUT 2276  
Extensive harmonic analysis involving primary and secondary chords and including chromaticism and modulation; altered chords and their functions.

**MUT 2117 Sophomore Theory II**  
3 sh (may not be repeated for credit)  
Prerequisite: MUT 2116 AND MUT 2276  
Co-requisite: MUT 2277  
Continuation MUT 2116, including augmented sixth chords, the neapolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.

**MUT 2276 Sophomore Theory I Lab**  
1 sh (may not be repeated for credit)  
Prerequisite: MUT 1272  
Co-requisite: MUT 2116  
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

**MUT 2277 Sophomore Theory II Lab**  
1 sh (may not be repeated for credit)  
Prerequisite: MUT 2276  
Co-requisite: MUT 2117  
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

**MUT 2361 Jazz Fundamentals I**  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 2276  
Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition, Chord type and related scales, chord progressions, memorization, and listening are covered. Open to all majors.

**MUT 2362 Jazz Fundamentals II**  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 2361  
Continuation of Jazz Fundamentals I. Jazz Theory and the use of chords and voicings, chord/scale relationship and score analysis.

**MUT 2905 Directed Study**  
1-12 sh (may be repeated indefinitely for credit)

**MUT 3401 Techniques of Counterpoint**  
2 sh (may not be repeated for credit)  
Linear writing through species counterpoint and comparison with 16th and 18th century musical idioms. Two years of music theory required.

**MUT 3611 Musical Structure and Style**  
2 sh (may not be repeated for credit)  
Systematic analysis of 17th, 18th, 19th and 20th century music, with emphasis upon structural designs and stylistic trends. Two years of music theory required.

**MUT 3671 Jazz Improvisation I**  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 2361  
Continuation of Jazz Improvisation II. Advanced techniques and practices of jazz improvisation.

**MUT 3672 Jazz Performance II**  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 3671  
Continuation of Jazz Performance I. Presentation of increasingly difficult harmonic structures.

**MUT 3905 Directed Study**  
1-12 sh (may be repeated indefinitely for credit)

**MUT 4311 Instrumentation**  
2 sh (may not be repeated for credit)  
Use of, and writing for, orchestral and band instruments; characteristics and capabilities of each. Instruments studied individually, small groups and as members of full ensemble. Two years of college theory required.

**MUT 4643 Jazz Improvisation III**  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 3642  
Continuation of Jazz Improvisation II. Advanced techniques and practices of jazz improvisation.
MUT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

NURSING: GENERIC UNDERGRAD Courses

NUR 3067 Health Assessment and Promotion
3 sh (may not be repeated for credit)
Co-requisite: NUR 3081

For the RN-BSN student, this course focuses on enhancing their knowledge and skills in health history interviews, narrative documentation, health screening, and selected physical examination techniques necessary to assess the health status of individuals. Health promotion is enabled by the acquisition of a three generational family genogram, identification of primary health needs and ability to locate and refer appropriate community and internet consumer resources.

NUR 3081 Transition to Professional Nursing Practice
3 sh (may not be repeated for credit)

For the RN-BSN student this course provides a transition experience into baccalaureate nursing through exploration of nursing professionalism and theories, healthcare policy and delivery, and the core healthcare professional competencies of the baccalaureate nurse in contemporary and future nursing practice. Admission to the RN-BSN program is required. Any course except NUR 4895 may be a co-req.

NUR 3116 Concepts for Nursing Practice
3 sh (may not be repeated for credit)
The nursing process as the methodology for professional nursing practice provides the basis for exploring particular concepts and theories. It includes systems theory, change theory, health-illness continuum, high level wellness and various nursing models with emphasis on man's uniqueness as an adaptive being. Prerequisite for all courses having a clinical component. Permission is required.

NUR 3145 Pharmacology
3 sh (may not be repeated for credit)
Provides basic pharmacokinetics and physiologic information, including actions, side effects, and interactions of drugs that are widely used. Focuses on the principles and concepts of pharmacology and related nursing practices. Permission is required.

NUR 3735 Psychiatric/Mental Health Nursing
3 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3736,NUR 3736L
Introduces students to theory and skills of psychiatric/mental health nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic mental health disorders. Permission is required.

NUR 3735L Psychiatric/Mental Health Nursing Clinical Lab
3 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3736,NUR 3736L
Clinical component to NUR 3535 providing opportunity to apply nursing therapeutics for in-patient care in mental health and psychiatric settings. Graded on satisfactory / unsatisfactory basis only. Permission is required.

NUR 3535L Psychiatric/Mental Health Nursing Clinical Lab
3 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3736,NUR 3736L
Clinical component to NUR 3535 providing opportunity to apply nursing therapeutics for in-patient care in mental health and psychiatric settings. Graded on satisfactory / unsatisfactory basis only. Permission is required.

NUR 3736 Medical Surgical Nursing
5 sh (may not be repeated for credit)
Co-requisite: NUR 3116,NUR 3145,NUR 3735L
Prerequisite: NUR 3735/L
Introduces students to theory and skills of medical surgical nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3735 and NUR 3215.

NUR 3736L Medical Surgical Nursing Clinical Laboratory
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3735L
Introduces students to theory and skills of medical surgical nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3736 and NUR 3216.

NUR 3736L Medical Surgical Nursing II Clinical Laboratory
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3735L
Introduces students to theory and skills of medical surgical nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3736 and NUR 3216.

NUR 3678 Nursing Care of Vulnerable Populations
3 sh (may not be repeated for credit)
Course entails how to care for the vulnerable, the relevance of nursing theories to vulnerable populations, nursing research showing the kinds of phenomena nurses study, and learning to work with and advocate for vulnerable individuals. Meets Multicultural requirement.

NUR 3735 Foundations of Medical Surgical Nursing
8 sh (may not be repeated for credit)
Co-requisite: NUR 3116,NUR 3145,NUR 3735L
Prerequisite: NUR 3735/L
Presents adults as holistic beings by identifying health patterns and family relationships. Pathophysiology is integrated in discussion of specific diseases and disorders. The identification and application of principles and concepts related to selected psychomotor skills used in nursing practice is included. Students use concepts from nursing, humanities, and bio-psycho-social sciences to understand human responses to common actual and potential health problems and as a basis for nursing practice. Credit may not be received in both NUR 3735 and NUR 3215.

NUR 3735L Foundations of Medical Surgical Nursing Clinical Lab
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3736
Introduces students to theory and skills of medical surgical nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3735L and NUR 3215L.

NUR 3736 Medical Surgical Nursing II
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3736
Introduces students to theory and skills of medical surgical nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3736 and NUR 3216.

NUR 3736L Medical Surgical Nursing II Clinical Laboratory
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735/L
Co-requisite: NUR 3535,NUR 3735L,NUR 3736
Introduces students to theory and skills of medical surgical nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3736L and NUR 3216.
NUR 3837 Health Care Issues
2 sh (may not be repeated for credit)
Focuses on the nursing profession and current major issues and problems that concern it, and provides a forum for the exploration and evaluation of concerns germane to contemporary nursing. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. Permission is required.

NUR 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

NUR 4125 Pathophysiology and Nursing Management of Client Health
3 sh (may not be repeated for credit)
Prerequisite: NUR 3081
This RN-BSN course is designed to integrate disease processes, healthcare and nursing. This course reviews normal anatomy and physiology, then examines the pathophysiological processes that occur in the human body when a homeostatic imbalance occurs. It includes an exploration of etiology, clinical presentation, and appropriate treatment of the disease process with emphasis on nursing actions. The course integrates the nursing process, and examines rationale for nursing interventions in certain pathologic conditions through the utilization of case studies.

NUR 4165 Research Essentials in Evidence-Based Nursing Practice
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
Introduction to evidence-based nursing (EBN) practice. Quality care and safe nursing practice will be demonstrated by students learning to integrate the EBN triad of RN’s clinical expertise, best external research evidence, and client and family cultural preferences. Students learn to formulate clinical questions in answerable format; search for and identify best evidence; and critically appraise published studies for rigor and applicability to the clinical problem. Students gain an understanding of basic research designs that make up the Pyramid of Evidence. Basic principles of scientific inquiry, quantitative and qualitative research methods are introduced in the context of clinically relevant research.

NUR 4177 Holistic Healthcare
3 sh (may not be repeated for credit)
This on-line course explores the role of selected complementary and alternative health practices and promotions in the healthcare arena. Emphasis will be placed on ways to promote healing and optimum health in the individual. Offered concurrently with NGR 5167; graduate students will be assigned additional work. Meets Multicultural requirement.

NUR 4257 Medical-Surgical Nursing III
3 sh (may not be repeated for credit)
Prerequisite: NUR 4355/L AND NUR 4455/L AND NUR 4615/L
Co-requisite: NUR 4257L, NUR 4827, NUR 4945L
Theory and skills in caring for individuals and families experiencing acute, unstable, or life threatening problems. Critical thinking skills and nursing interventions developed. Permission is required.

NUR 4257L Medical-Surgical Nursing III Clinical Laboratory
4 sh (may not be repeated for credit)
Prerequisite: NUR 4455/L AND NUR 4615/L
Co-requisite: NUR 4257, NUR 4827, NUR 4945L
Clinical component of NUR 4257 provides opportunity to apply nursing therapeutics for the acutely ill client in critical care settings. Graded on satisfactory / unsatisfactory basis only. Permission is required. Material and supply fee will be assessed.

NUR 4286 Gerontological Nursing
3 sh (may not be repeated for credit)
An on-line nursing course designed to meet the health care challenge presented by the increasing population of the elderly. Provides students with an opportunity to expand their knowledge about the unique needs of older clients. Presents a holistic approach incorporating physical, spiritual, emotional, social and cultural aspects of aging. Permission is required.

NUR 4455 Maternal-Newborn Nursing
2 sh (may not be repeated for credit)
Prerequisite: NUR 3535/L AND NUR 3736/L
Co-requisite: NUR 4165, NUR 4455L, NUR 4615, NUR 4615L
Nursing care practices and patient needs of the childbearing family from preconception through 28th day of life. Continues application of general systems theory. Emphasis on the family and promotion of physical, social and emotional well-being. Permission is required.

NUR 4455L Maternal-Newborn Nursing Clinical Laboratory
2 sh (may not be repeated for credit)
Prerequisite: NUR 3535/L AND NUR 3736/L
Co-requisite: NUR 4165, NUR 4455, NUR 4615
Clinical component of NUR 4455, provides opportunity to apply nursing therapeutics for family care in childbearing and newborn settings. Promotes identification and utilization of nursing interventions to prevent illness and promote health by using critical thinking and problem solving. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

NUR 4615 Family and Community Health Nursing
3 sh (may not be repeated for credit)
Prerequisite: NUR 3736/L
Co-requisite: NUR 4615L
Prevention of disease, environmental sanitation, and crises intervention to help the client, family, and community achieve their maximum health potential. Meets Multicultural requirement.

NUR 4615L Family and Community Health Nursing Laboratory
3 sh (may not be repeated for credit)
Co-requisite: NUR 4615
Application of the concepts of health maintenance and promotion is afforded the student in primary, secondary and tertiary care setting.
NUR 4636 Public Health & Community-based Nursing
4 sh (may not be repeated for credit)
Prerequisite: NUR 3067 AND NUR 3081 AND NUR 4165
This course emphasizes the theories and practice of public health and community-based nursing. The focus of care is on families, communities, aggregates, systems and populations. Students are introduced to the roles of public health and community-based nurses; and apply knowledge towards a population perspective. The course emphasizes health promotion and disease prevention, using the public health sciences of epidemiology, environmental health, health policy, community assessment, and community interventions. Important current topics are presented to illustrate public health nursing concepts. Students complete a community assessment and plan a community intervention with an evaluation. The Public Health Nursing Interventions Wheel framework is used to guide interventions aimed to improve the health of populations.

NUR 4826 Law & Ethics in Nursing
3 sh (may not be repeated for credit)
Prerequisite: NUR 3081
This course is for RN-BSN students and explores legal concepts and regulations that guide professional nursing practice and examines concepts, theories, and values applied in ethical decision-making that are related to a variety of ethical dilemmas in nursing practice and health care. Focus is on case analysis of legal and ethical issues.

NUR 4827 Nursing Management and Leadership
3 sh (may not be repeated for credit)
Prerequisite: NUR 4165 AND NUR 4355/L AND NUR 4455/L AND NUR 4615/L
Co-requisite: NUR 3837, NUR 4257, NUR 4257L, NUR 4945L
Group process provides the forum to study leadership, collaboration and coordination in health-care settings. This serves as the Capstone course for the Nursing Program. Permission is required.

NUR 4828 Nursing Systems Management
4 sh (may not be repeated for credit)
Prerequisite: NUR 3081
This course focuses on the development of management skills for the professional nurse role by applying the principles of leadership theories and styles, management, and regulatory agencies that define nursing practice within a health care organizations. Collaboration, conflict management, and effective communication skills through the use of group process, and teaching/learning strategies emphasize the leadership and management roles of the nurse. Also, emphasized is the professional nurse role in promoting quality and safe patient care management in an evolving, complex healthcare environment. Admission to the RN-BSN program track.

NUR 4895 Health Education in the Community
3 sh (may not be repeated for credit)
Prerequisite: NUR 3081 AND NUR 4165
This course is for RN-BSN students and introduces the student to educational theories and processes related to health promotion within a group community setting. Demonstrating appropriate strategies for the learners the student will develop measurable objectives, plan for, present, and evaluate a health promotion presentation incorporating the utilization of multi media and consumer internet health information.

NUR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

NUR 4945L Nursing Leadership and Management Preceptorship
3 sh (may not be repeated for credit)
Prerequisite: NUR 4455/L AND NUR 4615
Clinical component to NUR 4827 which supports the transition to professional nursing. Course provides the opportunity to apply nursing leadership and management strategies to healthcare settings. Provides the opportunity to synthesize nursing knowledge and experience professional role implementation.

NURSING: GRADUATE Courses
NGR 5131 Cultural Factors in Health and Illness
3 sh (may not be repeated for credit)
Influence of culture on health and health care beliefs and practices. Institutional health care policies which conflict with ethnic or cultural beliefs will be discussed. Selected content and learning experiences will guide students who interact with clients in a variety of settings. Satisfaction of all General Studies requirements; completion of majority of upper-division degree requirements; or equivalent. Offered concurrently with NSP 4185; graduate students will be assigned additional work. Credit may not be received in both NGR 5131 and NGR 5934.

NGR 5167 Holistic Healthcare
3 sh (may not be repeated for credit)
This on-line course explores the role of selected complementary and alternative health practices and promotions in the healthcare arena. Emphasis will be placed on ways to promote healing and optimum health in the individual. Offered concurrently with NUR 4177; graduate students will be assigned additional work. Credit may not be received in both NGR 5167 and NGR 5095.

NGR 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

NGR 6002 Advanced Health Assessment
3 sh (may not be repeated for credit)
This course will build upon health assessment skills developed in the professional nurse's basic education program. The theoretical and clinical basis for assessment in advanced nursing practice will be developed. The process whereby the advanced nurse utilizes comprehensive physical, psychological, and cultural assessment across the life span to gather specific data relevant to common health problems is demonstrated.

NGR 6140 Advanced Pathophysiology
3 sh (may not be repeated for credit)
This course is designed to present an orientation to disease as disordered physiology. It is intended to enable those in advanced nursing practice to understand how and why the symptoms and signs of various conditions appear. In approaching disease as disordered physiology, this course analyzes the mechanism(s) of production of the symptoms and signs of different disease states. In doing so, it recognizes that those in advanced nursing practice need to understand the mechanism(s) underlying the disease and its clinical manifestations so that rational therapies can be devised. Thus, appropriate screening and diagnostic laboratory evaluation methods will also be included.
NGR 6172 Advanced Pharmacology  
3 sh (may not be repeated for credit)  
This course is designed to expand the advanced practice student's knowledge of pharmacotherapeutics. Broad categories of pharmacological agents are examined. Skills to assess, diagnose, and manage a client's common health problems in a safe, high quality, and cost-effective manner are emphasized.  

NGR 6636 Health Promotion and Primary Prevention in Nursing  
3 sh (may not be repeated for credit)  
The theoretical foundation for the promotion of health and prevention of disease in the individual, family, local/global community, and the environment. Permission is required.  

NGR 6700 Nursing Theory  
3 sh (may not be repeated for credit)  
This course explores the theoretical foundations of nursing and nursing practice. It examines the nursing influence on legislation and policy development. Students will critically analyze nursing theories and healthcare policies from a historical, multidisciplinary, and global perspective. Permission is required.  

NGR 6710 Nursing Education Seminar I  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6740 AND NGR 6800 AND NGR 6880  
This initial specialization seminar course builds on core course content in the development of the nurse as an educator in both the classroom and clinical settings. It explores complex theories and concepts in nursing education and begins the preparation of the student for the nurse educator role. It will look at the history of nursing education, curriculum design, learning theories, teaching strategies, resources, accreditation of nursing programs. In addition to the didactic component, students will have the opportunity to apply content from this and prior coursework in a precepted situation. Each student will obtain a preceptor who meets specified criteria for the preceptor role to serve as their preceptor for the required 90 practicum hours in this course. Students will also have didactic and 90 practicum hours in the subsequent course, NGR 6715. These courses provide the student with advanced study in inquiry leading to preparation for a capstone project in their last semester. Permission Required.  

NGR 6715 Nursing Education Seminar II  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6740 AND NGR 6800  
This second seminar course explores motivation and technology. The student has the opportunity to develop clinical skills and instructional strategies for a non-traditional course delivery. Looks at nursing case management, in-service education, continuing education in practice. Legal aspects, financial management, and business plans are analyzed.  

NGR 6728 Nursing Leadership & Management Seminar I  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6740 AND NGR 6800 AND NGR 6880  
This initial specialization seminar course builds on the undergraduate content in the development of the advanced leadership role. It explores complex theories and concepts in nursing leadership and management, beginning the preparation of the student for the nursing management role. The course will investigate leadership models, theories, and styles; roles and functions of management; and complex organizational systems to include structure, mission, philosophy, goals, objectives, basic financial management, human resources, accrediting agencies, and the political environment. Also, this course provides the student with advanced study in inquiry leading to preparation for a capstone project completed in their last semester.  

NGR 6729 Nursing Leadership & Management Seminar II  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6740 AND NGR 6800 AND NGR 6880  
This is the second of Nursing Leadership and Management Seminars with the focus on nursing administrators/leaders making organizational strategic changes within healthcare. This course will explore (1) nursing as a business, (2) organizational culture and diversity, (3) complexity leadership and management principles, (4) strategic planning, (5) quality and safety in healthcare, (6) developing/managing projects, (7) tools for capital budgeting and asset management, (8) managerial decision-making skills, (9) case management approaches, (10) targeted markets, and (11) outcomes management. Additionally, the impact of external factors on complex healthcare systems and nursing will be explored.  

NGR 6740 Contemporary Issues in the Role of Advanced Nursing Practice  
3 sh (may not be repeated for credit)  
Focuses on the role of the Advanced Nursing Practice nurse. Integrates nursing and other discipline theories and issues relevant to clinical practice, administration, education, and research issues. Includes theoretical analysis, application, and synthesis in the development of an individual model of advanced nursing practice for the student. Permission is required.  

NGR 6756 Advanced Clinical Nursing  
3 sh (may not be repeated for credit)  
Health care delivery with a focus on nursing case management and managed care. The advanced clinical nurse is viewed as a partner with a variety of disciplines in the provision of quality nursing care in a variety of settings. Permission is required.
NGR 6800 Nursing Research, Statistics, and Evidence Based Practice
3 sh (may not be repeated for credit)
This initial research, statistics and evidence-based practice (EBP) course builds on undergraduate research & statistics content. It explores complex theories and concepts in nursing research, statistics and evidence-based practice beginning the preparation of the student for the nursing scholar role. It includes critical appraisal of research evidence including the interpretation of statistical analyses commonly used in evidence summaries. It includes the evidence-based practice process to prepare the graduate nurse to translate research evidence summaries into evidence-based practice project proposals. It will also prepare the nurse for the role of change agent as they identify practice areas where evidence-based practice integration is needed and facilitate the movement of evidence-based quality initiatives and practice change. Also, it provides the student with core EBP competencies leading to preparation for a capstone project in their last semester.

NGR 6833 Nursing Leadership & Management EBP Project I
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6729 AND NGR 6740 AND NGR 6880
This course follows all MSN core content and Nursing Leadership and Management Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6833L course. Permission is required.

NGR 6833L Nursing Leadership & Management EBP Project II
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6729 AND NGR 6740 AND NGR 6880
This culminating project course follows all MSN core content, Nursing Leadership and Management Seminars, and completion of an approved project proposal. In this course the student will use knowledge from prior courses to conduct the evidence-based project from NGR 6833 project proposal. Permission is required.

NGR 6834 Nursing Education Evidence Based Project I
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6880
This course follows all MSN core content and Nursing Education Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6834L Nursing Education Evidence Based Practice Project II
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6880
This course follows all MSN core content, Nursing Education Seminars, and the project proposal development course. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6880 Ethical Issues in Advanced Nursing Practice
3 sh (may not be repeated for credit)
This course will explore the philosophical and theoretical foundations of health care ethics. Additionally, this course will present multiple perspectives used in medical/nursing ethics decision-making. The history of and current issues in medical ethics will be explored along with relevant case studies.

NGR 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

NURSING: SPECIAL Courses

NSP 4185 Cultural Factors in Health and Illness
3 sh (may not be repeated for credit)
Influence of culture on health and health care beliefs and practices. Institutional health care policies which conflict with ethnic or cultural health beliefs will be discussed. Selected content and learning experiences will guide students who interact with clients in a variety of settings. Completion of Social Science component of General Studies is required prior to taking this course. Offered concurrently with NGR 5131; graduate students will be assigned additional work. Meets Multicultural requirement.

NSP 4275 Introduction to Critical Care Nursing
3 sh (may not be repeated for credit)
Examines the needs of the critically ill client. The integrity of the individual and family may be disrupted by a critical illness. The critical care nurse assists the individual and family to restore life processes to a state of dynamic equilibrium. Emphasizes use of scientific rationale and application of the nursing process in providing care to the individual client and family. Critical care concepts and skills for promoting client and family well-being are stressed. Permission is required.

NSP 4426 The Healthy Woman
3 sh (may not be repeated for credit)
Normal physiological and psychological changes that occur in women at differing phases of the life cycle. Topics include causes, prevention, and treatment of women's most common health concerns, women's health policy and research and cultural diverseness.

NSP 4435 Men's Health
3 sh (may not be repeated for credit)
Through an interdisciplinary approach, addresses men's health and perceptions of masculinity, differences in men's health care, differences and disparities related to race, ethnicity, and social class. Topics include wellness, cardiovascular disease (including HIV), aging, violence, depression, infertility, erectile dysfunction, and impotence. Includes historical cases and epidemiological differences among groups. Completion of all General Studies requirements and Junior status is required. Offered concurrently with NSP 4435; graduate students will be assigned additional work.

NSP 4545 Drugs and the Human Body
3 sh (may not be repeated for credit)
Designed to introduce students to the dynamics of drug addiction from a physiological perspective. Legal and historical data related to current categories of drugs will be explored. Basic pharmacology and physiology; acute and chronic pathologic effects, and the physiological symptoms of withdrawal for commonly abused drugs will be a major focus.
PLA 3020 Law and Society
3 sh (may not be repeated for credit)
Study of American law, focusing on why there are laws, as well as who makes and enforces the laws. Covers what is commonly known as "everyday law," that is, how law affects us in our daily lives. (General Studies Course: SS / SOC) Credit may not be earned in both PLA 2057 and PLA 2013.

PLA 3021 Law and Film: Fact or Fiction
3 sh (may not be repeated for credit)
Films may capture not only facts, but also emotions that occur in the pursuit of justice. Films chosen illustrate the complexities of legal and justice issues, the involvement of various stakeholders in the system and the merit or lack of merit of character's decision-making. Highlights the practice of law, stakeholders, judicial processes, as well as interactions with society and politics.

PLA 3021 Survey of American Law
3 sh (may not be repeated for credit)
Study of American law, focusing on why there are laws, as well as who makes and enforces the laws. Covers what is commonly known as "everyday law," that is, how law affects us in our daily lives. (General Studies Course: SS / SOC) Credit may not be earned in both PLA 2057 and PLA 2013.

PLA 3021 Law and Film: Fact or Fiction
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PLA 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
A cooperative effort between the UWF Legal Studies Program, the UWF Center for Learning Through Volunteer Efforts (CLOVE), and a public or private law-related office. Allows students the opportunity to focus on various learning objectives in a potential career field. Students work under the overall supervision of a licensed attorney or other legal professional at the placement site. Permission is required.

PLA 4025 Sex Discrimination Law
3 sh (may not be repeated for credit)
Examines the traditional role of women and men, historically and in the constitutional context, and the current legal status of men and women in specific areas such as employment, family law, sports, education and criminal law. Credit may not be earned in both PLA 4693 and PLA 4025.

PLA 4155 Legal Advocacy
3 sh (may not be repeated for credit)
Prerequisite: PLA 3103
Emphasis is on improving legal writing ability through the use of practical writing assignments, including case briefs, legal correspondence, legal memoranda, and trial briefs. (Gordon Rule course: Wrtg).

PLA 4204 Civil Procedure
3 sh (may not be repeated for credit)
Civil litigation in the Florida and Federal courts. Covers substantive civil law, Florida and Federal rules of civil procedure and related matters from initial interview through pre-trial preparation including drafting of pleadings and preparing discovery.

PLA 4225 Trial Practice
3 sh (may not be repeated for credit)
Prerequisite: PLA 4204
A case through the trial process from opening statements through verdict.

PLA 4263 Evidence
3 sh (may not be repeated for credit)
Rules of evidence, including relevancy, hearsay, competency of witnesses and burdens of proof. The Federal Rules of Evidence are emphasized.

PLA 4277 Tort Law
3 sh (may not be repeated for credit)
In-depth study of the fundamental principles of negligence, intentional torts, strict liability, product liability, and vicarious liability. Credit may not be received in both PLA 4277 and PLA 4273.

PLA 4306 Criminal Law
3 sh (may not be repeated for credit)
Examination of the major substantive crimes, including homicide, burglary, arson, offenses against the person, and offenses against property. The concepts of criminal responsibility, parties to crime, causation, and special legal defenses are also studied. Credit may not be received in both PLA 4306 and PLA 4304.

PLA 4309 Criminal Procedure
3 sh (may not be repeated for credit)
The study of criminal procedure is a fascinating one which involves an examination of the power of the government to enforce the criminal law versus the right of individuals to be free from government intrusions, as guaranteed by the Constitution. Will help students develop critical analysis skills by examining the constitutional framework for the enforcement of criminal law. After examining the constitutional provisions that effect and affect criminal procedure, we will then examine these principles in action by focusing on police practices including searches, seizures, interrogations, identification procedures, and arrests. Finally we will study the criminal court process from the charging decision through the appeals process.

PLA 4554 Environmental Law and Jurisprudence
3 sh (may not be repeated for credit)
The evolution of both American and international environmental law is explored through a review of the basic, existing environmental laws and regulations, with a jurisprudential/philosophical look at the underlying issues and principles of environmental law, using an interdisciplinary approach.

PLA 4607 Wills, Estates, and Trusts
3 sh (may not be repeated for credit)
Covers the need for estate planning, drafting and execution of basic wills, the laws of intestate succession, the purposes of trusts, formal and informal probate administration and the tax consequences of wills and trusts. Credit may not be received in both PLA 4607 and PLA 4601.

PLA 4885 Constitutional Law for the Paralegal
3 sh (may not be repeated for credit)
Seeks an integration of the study of the Constitution with the pragmatics of the practice of law for the paralegal. Introduces the basic concepts of the Constitution in the light of how Constitutional issues arise in the modern practice of law and how to prepare to meet these arguments. Covers Supreme Court jurisdiction, how to read Supreme Court cases, separation of powers, Federalism, Commerce Clause, Due Process cases, First Amendment, Privacy, and Equal Production. Will be focusing on issues confronted in modern courts and law office. Credit may not be received in both PLA 4885 and PLA 4880.

PLA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PLA 4933 Special Topics in Legal Studies
3 sh (may be repeated for up to 12 sh of credit)
The study of special issues in legal studies. Subject matter will vary depending upon the issue(s) selected for study (e.g., philosophy of law).

PLA 4941 Legal Studies Internship
1-3 sh (may be repeated for up to 6 sh of credit)
Individual field experience in law related offices including private attorneys, public agencies, and alternative dispute resolution firms. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

PLA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
PERSONALITY Courses

PPE 4003 Theories of Personality
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Assumptions, structure, dynamics and determinants of personality. Consideration of various personality theories, pertinent research and its application to everyday life.

PPE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PPE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHILOSOPHERS SCHOOLS Courses

PHP 3786 Existentialism
3 sh (may not be repeated for credit)
Basic concepts and ways of experiencing the world through various existential writers. May include Hegel, Kierkegaard, Nietzsche, Jaspers, Sartre, Heidegger and Merleau-Ponty.

PHP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHILOSOPHY Courses

PHI 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHI 2010 Introduction to Philosophy
3 sh (may not be repeated for credit)
Nature of philosophical thinking, discussion of fundamental and perennial problems of philosophy. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM / VAL).

PHI 2103 Critical Thinking
3 sh (may not be repeated for credit)
This course will introduce students to the fundamentals of critical thinking, argument, conceptual analysis and evidence. Students will learn how to think critically, read actively, and write persuasively across a variety of contexts. Appropriate for and applicable to any major.

PHI 2603 Ethics
3 sh (may not be repeated for credit)
Explores the fundamental problems of Western ethics, the classical and Judeo-Christian traditions, modern ideals of the good for the individual business, politics and the environment. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM / VAL).

PHI 3130 Modern Logic
3 sh (may not be repeated for credit)
Training and skills of modern symbolic logic and their application to evaluation of arguments. Propositional logic, predicate logic.

PHI 3320 Philosophy of Mind
3 sh (may not be repeated for credit)
Introduces and examines proposed theories, from philosophy as well as the brain and behavioral sciences, regarding various aspects of the mind-body problem: mental representation, consciousness, mental imagery, innateness, the language of thought and the computer model of the mind, etc. (Gordon Rule Course: Wrtg).

PHI 3400 Philosophy of Science
3 sh (may not be repeated for credit)
Concepts and types of explanation used in sciences. May include differences between natural and social sciences, inductive reasoning and scientific explanation, and relation of science to society.

PHI 3452 Philosophy of Biology
3 sh (may not be repeated for credit)
Philosophy of biology focuses on evolutionary theory, examining such questions as "what is a gene", "what does natural selection select" and "what are the moral/social implications of evolutionary theory"?.

PHI 3500 Metaphysics: Furniture of the Universe
3 sh (may not be repeated for credit)
Metaphysics is the study of everything. Hence this course is about all the stuff in the universe, and perhaps even some stuff not in the universe. It would probably be fair to say that metaphysics is concerned with identifying what the furniture of the universe is. Additionally, metaphysicians worry about not just what the actual furniture of the universe is, but what are the possible kinds of furniture that may populate the universe. Metaphysics also seeks to uncover the fundamental principles that govern reality (and possible ?realities?). Due to the vastness of the domain of metaphysical topics, we will restrict our attention to a small sample of topics?ones that are, or should be, near and dear to us for they bear on our lives as citizens of the universe. For example, do you have free will? Do you have a mind? Do numbers exist? Is time travel possible? What is time, anyway? Are there naturally occurring categories of stuff in the universe? Could the world have turned out differently than it did? A well rounded background in philosophy includes, among other things, conversance with central topics in metaphysics; this course aims to provide just that. Offered Fall and Spring semester only.

PHI 3640 Environmental Ethics
3 sh (may not be repeated for credit)
Introduces students to issues and problems in the field of environmental ethics. Theories of value are investigated in the effort to clarify the interrelations between humanity and nature. Discussions concerning the moral status of the non-human community will not be restricted to debates over value theory alone, but will also encompass metaphysical issues that bear upon environmental problems.

PHI 3670 Ethics
3 sh (may not be repeated for credit)
Philosophical theories concerning nature of the good, moral obligation, human excellence and application of ethical theory to problems of the individual in relation to society.

PHI 3700 Philosophy of Religion
3 sh (may not be repeated for credit)

PHI 3840 Philosophy of Art
3 sh (may not be repeated for credit)
PHI 3880 Philosophy of Film
3 sh (may not be repeated for credit)
Investigates the major theoretical and conceptual issues surrounding the art of film. Philosophical concepts underlying film theories such as realism, formalism, hermeneutics, and structuralism will be examined and applied to cinematography, editing, sound, and mise en scene. Other conceptual issues may include perception, representation, narrative, and ideology.

PHI 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHI 4300 Theory of Knowledge
3 sh (may not be repeated for credit)
Various theories of relation between human knowledge and reality; empirical, rationalistic, linguistic and phenomenological. (Gordon Rule Course: Wrtg).

PHI 4633 Biomedical Ethics
3 sh (may not be repeated for credit)
Designed to introduce students to the moral and conceptual foundations of ethics, to various ways of analyzing selected problems in the field, and applications of various theories to the professions.

PHI 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHI 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHI 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHILOSOPHY OF MAN SOC Courses

PHM 3200 Social and Political Philosophy
3 sh (may not be repeated for credit)
Social and political theories and ideals that have influenced development of Western man; significance of these for contemporary society.

PHM 4020 Philosophy of Sex and Love
3 sh (may not be repeated for credit)
Intended to familiarize you with the major philosophical and moral issues surrounding our sexuality and its attendant emotions. Will draw upon thinkers from within the history of Western Philosophy and psychology - including Plato, Augustine, Kant, Freud, DeBeauvoir and Nagel. Offered concurrently with PHM 5026; graduate student will be assigned additional work.

PHM 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHM 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHM 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHH 3100 Greek Philosophy
3 sh (may not be repeated for credit)
Development of ancient Greek philosophy; pre-Socratic, Plato, Aristotle and Hellenistic philosophy.

PHH 3400 Modern Philosophy
3 sh (may not be repeated for credit)
Development of modern philosophy from Renaissance through 18th century; Descartes, Locke, Berkeley, Hume, Spinoza, Leibniz and Kant.

PHH 4200 Medieval Philosophy
3 sh (may not be repeated for credit)
History of medieval philosophy from Augustine to Ockham, including such issues as the existence of God, the problem of evil, free will and the nature of human knowledge.

PHH 4600 Contemporary Philosophy
3 sh (may not be repeated for credit)
20th century developments in philosophical thought. May include logical positivism, linguistic analysis and phenomenological analysis.

PHH 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHOTOGRAPHY Courses

PGY 2401C Photography as Art Form: Basic Camera
3 sh (may not be repeated for credit)
Basic theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of basic techniques and aesthetic concerns in relation to the photographic image. Includes basic darkroom experience. Invites all students. Material and supply fee will be assessed.

PGY 2401C Photo Art II
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C
Development of advanced techniques and concerns in relation to the black and white photographic image. Emphasis on exploration as a means of creative artistic expression. Material and supply fee will be assessed.

PGY 3420C Photographic Imaging as an Art Form
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C
Theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of techniques, aesthetic concerns, and teaching methodology in relation to the photographic image. Includes darkroom lab experience. For art education students. Material and supply fee will be assessed.

PGY 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PGY 4104C Creative Darkroom
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C
In-depth exploration of the use of darkroom techniques, procedures, and manipulations as an artistic means to the development of advanced techniques and aesthetic concerns in relation to the altered photographic image. Material and supply fee will be assessed.
PGY 4823 Advanced Digital Photography
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C AND ART 3660C
An advanced class in image manipulation with emphasis on Adobe Photoshop, use of the film recorder, darkroom techniques, and photo history and theory. Designed for artists who are interested in learning how to manipulate photographic and computer created images into finished photographs. Manipulating images and controlling equipment and images, working between the darkroom and the computer, and integrating traditional photographic processes with experimental processes are included. Material and Supply fee will be assessed.

PGY 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PGY 4940C Photography: Personal Directions
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: PGY 2401C
Fosters the development of personal expression within the framework of black-and-white photography as an art form. Covers advanced camera and darkroom techniques, as appropriate to the individual's direction. Material and Supply fee will be assessed.

PHYS ED ACT:OBJ CENT, LAND Courses

PEL 1341 Beginning Tennis
3 sh (may not be repeated for credit)
Designed to introduce students to basic tennis strokes; rules; etiquette; terminology; basic tactics; strategy; and equipment.

PHYS ED ACT:OBJ CENT, LAND Courses

PEO 2031 Analysis of Individual Sports
3 sh (may not be repeated for credit)
Practicum in analytical techniques of skills involved in individual sports. Emphasis is on analysis, instructional design, and application of skills in a teaching situation.

PEO 3008 Sports Officiating II
3 sh (may not be repeated for credit)
Provides students an advanced look into sports and experiences related to the world and profession of sports officiating. Advanced principles, practices, responsibilities, techniques, and methods employed in sports officiating will be presented. Opportunities for employment in sports officiating will be discussed. Students will be required to observe officiating techniques and will be assigned officiating responsibilities in local sports programs. Credit may not be received in both PEO 3008 and PEO 3004.

PEO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHYS ED ACT:PERFO CENT LAN Courses

PEP 2500 Non-Traditional Sports
3 sh (may not be repeated for credit)
Designed for potential physical education teachers and sports administrators. Emphasis on development of game performance and teaching/coaching skills in the most popular non-traditional sports in physical education and sports programs. Students are expected to participate in the class by teaching, coaching, practicing and learning sport skills.

PEP 4113 Aging and Physical Performance
3 sh (may not be repeated for credit)
Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of the physiological, psychological and social factors which affect movement capabilities, the assessment of physical performance, and the development of activity programs for the aging. Offered concurrently with PEP 5118; graduate students will be assigned additional work.

PEP 5118 Aging and Physical Performance
3 sh (may not be repeated for credit)
Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of physiological, psychological, and social factors affecting movement capabilities, the assessment of physical performance, and the development of activity programs for the aging population. Offered concurrently with PEP 4113; graduate students will be assigned additional work.

PHYS ED ACT:PERFO CENT, LA Courses

PEM 1116 Body Shaping I
3 sh (may not be repeated for credit)
Designed to introduce body shaping exercises to students to help improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. This entry level class will cover yoga, Pilates, cardio karate, water aerobics, step aerobics, and basic training. Students will exercise using various types of equipment.

PEM 1120 Cardio Weightlifting and Endurance
3 sh (may not be repeated for credit)
Emphasizes the development of cardiovascular and muscular endurance through the use of free weights, weight machines, and cardio exercises. The exercises are based on the principle of circuit training through different exercise stations.

PEM 1121 Yoga I
3 sh (may not be repeated for credit)
Designed to train the student in basic Hatha yoga techniques. An ancient method of exercise as well as a method of spiritual meditation. the physical yoga training will occur during the class periods and there will be a learning module on-line for the student to complete. Each class will be a significant physical challenge. Students of all athletic abilities are encouraged to take the course.

PEM 1122 Yoga II
3 sh (may not be repeated for credit)
Prerequisite: PEM 1121
Designed to further the education and practice of Hatha Yoga. Advanced postures will be explored and the healing significance to each will be explained. Class meetings will be more strenuous than the Yoga I meetings. Strength moves and postures will be emphasized. Participants can enter Yoga II after completion of Yoga I or with the permission of the instructor. Students will be encouraged to develop their own potential abilities and style.
PEM 1141 Aerobic Conditioning
1 sh (may not be repeated for credit)
Designed to introduce aerobics to students to help improve overall physical fitness, improve cardio respiratory endurance, and help reduce body fat. Topics will include a wide variety of beginning level high-impact and low-impact aerobic activities designed to tax both the beginner and advanced student.

PEM 1162 Latin Cardio Groove
3 sh (may not be repeated for credit)
A Latin dance class that focuses on building fitness through the blending of Latin dance styles from the Merengue to Salsa with fitness techniques. The class is designed for non-dancers, dancers, and athletes.

PEM 1165 Hula Fit I
3 sh (may not be repeated for credit)
A beginning level hula dance class that focuses on building fitness through the use of Hawaiian and Tahitian Hula dance training and fitness techniques. Designed for non-dancers, dancers, and athletes.

PEM 1445 BEGINNING T'AI CHI
3 sh (may not be repeated for credit)
Introduces the 24-Step Ying Yang Style T'ai Chi form. Focuses on the internal & external elements of the form, the most recent research on the health benefits of T'ai Chi, and the history of this exercise.

PEM 2114 Cycle Fit
3 sh (may not be repeated for credit)
Students will participate in indoor cycling group workouts. Students will learn the proper use of cycle bikes for a safe and effective workout. Students will learn basic instruction techniques that will lay the foundation for learning to become a Cycle Fit instructor.

PEM 2126 Yoga Fitness
3 sh (may not be repeated for credit)
Students will learn information on the background of yoga, the many different types of yoga and the health benefits of participating in yoga fitness. The class includes a physical component in which students will participate in yoga fitness classes, designed to slowly progress through various sequences and poses of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a yoga fitness instructor.

PEM 2127 Pilates
3 sh (may not be repeated for credit)
Students will participate in Pilates classes to condition the core muscles of the body. The classes are designed to slowly progress through various exercises of increasing difficulty as the semester advances. In addition, the students will learn basic instruction techniques that will lay the foundation for learning to become a Pilates instructor.

PEM 2128 Pilates II
3 sh (may not be repeated for credit)
Continuation of the exercises of Joseph H. Pilates. Expanding on the principles of movement within the Pilates environment from intermediate to advanced mat exercises with the use of small props.

PEM 2179 Boot Camp Fitness
3 sh (may not be repeated for credit)
Students will participate in Boot Camp classes that will include aerobic exercise and anaerobic drills to improve endurance, strength, power, and agility. Classes will be designed to slowly progress through various exercises and drills of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a Boot Camp instructor.

PEM 2323 Rock Climbing
2 sh (may not be repeated for credit)
Survey of the principles of bouldering, rappelling, and top-rope rock climbing. Skills include climbing techniques, belaying, knot tying, anchor systems, self-rescue, and equipment. This is an experiential course, so a high degree of class participation is mandatory. Most days will involve climbing. Skills are practically tested at the Climbing Center and on the required weekend outdoor climbing trip.

PEM 2444 Shotokan Karate
1 sh (may be repeated for up to 3 sh of credit)
Examines the background and methods involved in karate and emphasizes traditional Japanese style known as Shotokan Karate. Offers the student instruction that will enable him/her to participate in regional, national, and international collegiate events including tournaments, special training clinics, weekend camps, and interaction with Shotokan Karate clubs and organizations at other universities. While learning self-defense techniques through physical practice and training, the student will learn the significance of mental discipline and health benefits involved in the practice of Shotokan Karate. Graded on satisfactory / unsatisfactory basis only.

PEM 2445 Shotokan Karate II
1 sh (may not be repeated for credit)
Prerequisite: PEM 2444
Advanced instruction in the traditional Japanese style of Shotokan Karate for students who have basic knowledge and experience with this style of Karate. Opportunities are provided for students to build on their experience and skill levels. Graded on satisfactory / unsatisfactory basis only.

PEM 2446 Shotokan Karate III
1 sh (may not be repeated for credit)
Prerequisite: PEM 2445
Advanced instruction at the third level for students who have beginning skills in Shotokan Karate. Opportunities will be provided to allow students to continue to build their skill levels and prepare for introductory competitive activities. Graded on satisfactory / unsatisfactory basis only.

PEM 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHYS ED ACT: WATER SNOW ICE Courses

PEN 1121 Swimming (Beginning)
1 sh (may not be repeated for credit)
Equips students with basic water safety skills and knowledge to make them reasonable safe while in, on, or about the water. Introduction to swimming on front and back; additional training through skills designed to improve stamina and basic coordination. Other water sports will be introduced to add to the students' water experience. Graded on a satisfactory / unsatisfactory basis only.
PEN 1170 Water Aerobics I  
3 sh (may not be repeated for credit)  
Offers water exercise to develop physical fitness. In addition, offers instruction in a variety of water exercises and vigorous activities to develop cardiovascular and muscular endurance, flexibility and the promotion of body composition management.

PEN 1240 Beach Sports I  
3 sh (may not be repeated for credit)  
Designed to introduce beach sports to students in order to help improve overall physical fitness. This entry level class will cover sports including surfing, body boarding, windsurfing, ocean kayaking, beach volleyball, surf fishing, and jet skiing. Students will exercise using various types of beach equipment. Material and supply fee will be assessed.

PEN 2114 Lifeguard Training  
3 sh (may not be repeated for credit)  
Acquaint the students with the skills and knowledge necessary for the maintenance of a safe environment in aquatic settings. Red Cross certification is available. Aquatic skills are required. Material and supply fee will be assessed (pending approval).

PEN 2123 Fitness Swimming  
3 sh (may not be repeated for credit)  
Designed to refine strokes so the student can swim with more ease, efficiency, power, and smoothness over greater distances. Ideal for the swimmer who may wish to enter competition or achieve a higher fitness level.

**PHYSICAL EDUCATION THEORY Courses**

PET 1905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

PET 2604 Basic Care and Prevention Principles of Athletic Training  
3 sh (may not be repeated for credit)  
Designed to provide an overview of proper roles and responsibilities of the National Athletic Trainers' Association Board of Certification (NATABOC), Certified Athletic Trainer (ATC) in providing quality health care to the physically active individual, as well as other health care professionals that comprise the sports medicine team. In addition, specific skills related to athletic health care will be addressed. A grade of "B" or better is required. Credit may not be earned in both PET 2603 and PET 2604.

PET 2622 Advanced Prevention and Care of Injuries in Health, Leisure, and Sports  
3 sh (may not be repeated for credit)  
Fitness and health, prevention and care of injuries, and restoration and rehabilitation of the injured. Standard first aid, anatomy and physiology are required.

PET 2824 Analysis of Team Sports  
3 sh (may not be repeated for credit)  
Designed for potential physical education teachers and sports administrators. Emphasis is on development and understanding of skills in the most popular team sports in physical education and sports programs. Students are expected to participate in the class by teaching, coaching, practicing and learning sport skills. Skills are measured through midterm assessment (no physical performance standards, only cognitive understanding of game performance skills) and lesson assessment (teaching/coaching skill evaluation).

PET 3020 Foundations of Physical Education and Sport Management  
3 sh (may not be repeated for credit)  
For physical education and sport management majors. Designed to acquaint them with the knowledge and understanding related to the development of physical education and sport and its significance to modern society.

PET 3283 Sports Media  
3 sh (may not be repeated for credit)  
Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting.

PET 3330 Functional Kinesiology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 1085/L  
Provides an in-depth, hands-on approach to learning the human skeletal and muscular anatomy and how it relates to motion and mechanism of injury, muscle origins, insertions, and actions will be learned through palpation.

PET 3640 Adapted Physical Education and Sport  
3 sh (may not be repeated for credit)  
Handicapping conditions and how physical activity is adapted to the special needs of individuals with these conditions.

PET 3660 Management Strategies in Athletic Training  
3 sh (may not be repeated for credit)  
Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications. Credit may not be earned in both PET 3484 and PET 3660.

PET 3760 Athletic Training Clinical I  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 1085/L AND PET 2604  
Students will refine many of the athletic training skills which were introduced during other courses. These include injury surveillance, implementation of OSHA standards, pre-participation exams, environment illness, environmental illness prevention, etiology and prevention guidelines associated with the leading causes of sudden death during physical activity, emergency preparedness, and communication and education of coaches, parents, and athletes. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.
PET 3671 Athletic Training Clinical II
3 sh (may not be repeated for credit)
Prerequisite: PET 3670
Students will refine many of the athletic training skills which were introduced during other courses. These include using protective equipment and prophylactic procedures, emergency assessment procedures, and perform a comprehensive clinical evaluation on the spine and lower extremities. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

PET 3680 Protective Methods in Sports Medicine
3 sh (may not be repeated for credit)
Principles in the selection, fabrication, and application of athletic equipment, orthotics, protective taping and bracing, and splints that are commonly used in various athletic training settings. Additionally, selection and application of selected emergency medical equipment and ambulation techniques; equipment will be addressed. Material and supply fee will be assessed. Permission is required.

PET 3825 Educational Gymnastics and Dance
3 sh (may not be repeated for credit)
Provides the physical education major with some fundamental knowledge and abilities of gymnastics, dance, and how to teach these two areas. Helps the student understand the contribution of dance and gymnastics to the field of Physical Education.

PET 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PET 4061 Motor Development and Skill Learning
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L AND PET 4310C AND PET 4361
Human motor development and the learning of motor skills are surveyed and discussed. Emphasis is placed upon factors affecting these processes and the design and selection of activities appropriate to the various stages of development and learning. Material and supply fee will be assessed. Credit may not be earned in both PET 4212 and PET 4061.

PET 4076 Balance and Mobility Training for Older Adults
3 sh (may not be repeated for credit)
Physical activity instruction for older adults. Emphasis will be on balance and mobility training. Topics include screening and assessment, core program principles and training methods, program design, leadership, and risk management.

PET 4213 Success in Sports
3 sh (may not be repeated for credit)
Success in Sports (SIS) is an integration of cross-boundary research documenting the determinants of success in sports. Special emphasis will be placed on elite athletic performance. Will be organized around theoretical accounts for the attainment of elite performance. In addition, the themes of Who in which profiles characteristics of elite athletes will be presented. Why in which inherited and acquired capacities responsible for elite performance will be presented, and How in which selected techniques to maximize training effects will be examined. Offered concurrently with PET 5216; graduate students will be assigned additional work.

PET 4251 Sociology of Sport
3 sh (may not be repeated for credit)
Students will be introduced to an array of social theories that apply to the analysis of social issues related to sports, such as race and ethnicity, gender, social class, politics, and religion. This course will generate an awareness of the importance of social functions of sports in today’s society.

PET 4310C Mechanics of Human Motion
4 sh (may not be repeated for credit)
Prerequisite: APK 3110/L OR MAC 1105 OR MAC 1114 OR MAC 2233 OR MAC 2311 OR MAC 2312 OR MGF 1106 OR MGF 1107 OR STA 2023
Anatomical, mechanical, analytical and functional aspects of human motor performance; emphasis upon joint actions and mechanical principles and their application to efficient movement. Anatomy and physiology are required. Material and supply fee will be assessed for corresponding lab.

PET 4310L Mechanics of Human Motion Lab
0 sh (may not be repeated for credit)
Co-requisite: PET 4310
Corresponding lab for Mechanics of Human Motion.

PET 4361 Sport Nutrition and Weight Control
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L
The relationship between physical activity and nutrition; their combined effects on optimal health, fitness, and sport performance.

PET 4380 Exercise Testing and Prescription
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L
Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class.

PET 4380L Exercise Testing and Prescription Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PET 4380
Provides practical experience in body fat analysis, flexibility testing, basic exercise stress testing, the PWC - 170 Submaximal Aerobic Capacity test, and performance testing for 7 fitness parameters.

PET 4383C Physiological Basis of Strength Development
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L AND PET 4310C AND PET 4361
Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 5389C; graduate students will be assigned additional work. Permission is required.

PET 4442 Physical Education in the High School
2 sh (may not be repeated for credit)
Co-requisite: PET 4928
Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities in the high school setting. Material and Supply Fee will be assessed.
PET 4555C Electrocardiogram Interpretation and Graded Exercise Testing
3 sh (may not be repeated for credit)
Prerequisite: PET 4380/L
The acquisition and interpretation of both resting and exercise electrocardiograms is covered, as well as an overview of heart anatomy, function and electrophysiology. Students are taught to identify various cardiac dysrhythmias and to administer a graded exercise test according to the American College of Sports Medicine guidelines. Students will engage in laboratory hands-on assignments that will include prepping of subjects, conduction and interpretation of a resting and graded exercise test. Department Permission is required.

PET 4605 General Medical Conditions
2 sh (may not be repeated for credit)
Prerequisite: PET 3670
A specialized course dealing with the pathology, signs and symptoms, and management/treatment of selected general medical conditions affecting the physically active individual.

PET 4610 Evaluation Techniques of Athletic Injuries II
3 sh (may not be repeated for credit)
Prerequisite: APK 4305 AND PET 4609
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the upper extremity and neck, as well as analysis of the throwing arm.

PET 4623 Rehabilitation of Athletic Injuries
3 sh (may not be repeated for credit)
Prerequisite: PET 2622
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.

PET 4623L Rehabilitation of Athletic Injuries Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4623
Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

PET 4632 Therapeutic Modalities in Athletic Training
3 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4632L
Principles and proper use of therapeutic modalities. Topics include indication, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Permission is required.

PET 4632L Therapeutic Modalities in Athletic Training Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4632
Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries.

PET 4672 Athletic Training Clinical III
3 sh (may not be repeated for credit)
Prerequisite: PET 3671
Students will refine many of the athletic training skills which were introduced during other courses. These include diagnostic techniques, assess and interpret clinical findings based on cardiovascular function, pulmonary functions, gastrointestinal function, as well as other body areas. Students will also improve skills in educating patients including home care, expanding rehabilitation skills, and perform comprehensive evaluations on upper extremities, the head, neck and thorax. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

PET 4673 Athletic Training Clinical IV
3 sh (may not be repeated for credit)
Prerequisite: PET 4672
Students will refine many of the athletic training skills which were introduced during other courses. These include evidence based practices, general nutrition concepts, disordered eating intervention, drug use intervention, use clinical reasoning skills, perform a comprehensive clinical exam on all body parts and systems, psychological interventions, and establish a health baseline for patients. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

PET 4691 Exercise Testing for Special Populations
3 sh (may not be repeated for credit)
Prerequisite: PET 4380
Designed of exercise programs for individuals with special medical conditions such as rheumatoid arthritis, osteoporosis, spinal disorders, diabetes, obesity, heart disease, hypertension, and pregnancy. Credit may not be earned in both PET 4552 and PET 4691. Material and Supply fee will be assessed.

PET 4710 Special Methods in Physical Education
3 sh (may not be repeated for credit)
Prerequisite: PET 4926
Acquaints student with specific methods, problems, and issues involved in teaching physical education in public schools.

PET 4720 Physical Education in the Elementary School
2 sh (may not be repeated for credit)
Co-requisite: PET 4926
Designed to provide a knowledge base so prospective physical education teachers can plan and implement appropriate activities for the elementary school. Material and Supply fee will be assessed.

PET 4730 Physical Education in the Middle School
2 sh (may not be repeated for credit)
Co-requisite: PET 4927
Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities for the middle school student. Emphasis is placed on understanding the progression from middle school to the high school developmental curricula.
PET 4744 Student Teaching in Physical Education
6-10 sh (may not be repeated for credit)
Prerequisite: PET 4710
Fourteen weeks of supervised teaching in a public or private school. Student teaching assignments will be made by application in Teacher Education Student Assessment System. Permission is required.

PET 4765 Theory and Practice of Coaching
3 sh (may not be repeated for credit)
Prerequisite: PET 3351
Introduction to coaching as a profession including ethical and legal considerations. Techniques and methods of coaching are explored. Active participation in a coaching internship in a selected sport and permission is required.

PET 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PET 4926 Practicum I: Elementary School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4720
Students will complete 30 hours of practical observation in elementary school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4927 Practicum II: Middle School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4730
Students will complete 30 hours of practical observation in middle school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4928 Practicum III: High School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4442
Students will complete 30 hours of practical observation in high school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 5052 Motor Learning
3 sh (may not be repeated for credit)
Advanced study of principles / theories of human motor learning, behavior, performance. Credit may not be earned in both PET 5235 and PET 5052.

PET 5216 Success in Sports
3 sh (may not be repeated for credit)
Success in Sports (SIS) is an integration of research documenting the determinants of successful sport performance. Special emphasis will be placed on the attainment of elite athletic performance. The course will be organized around theoretical accounts for the attainment of elite performance. Offered concurrently with PET 4213; graduate students will be assigned additional work.

PET 5389C Physiological Basis of Strength Development
3 sh (may not be repeated for credit)
Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 4383C; graduate students will be assigned additional work. Permission is required.

PET 5553 Advanced Exercise Testing and Prescription
3 sh (may not be repeated for credit)
Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class. Course includes hands on experience in exercise testing with advanced equipment including hydrostatic weighing, environmental conditions, and blood glucose and lactate analysis. Course concludes with a student presentation of an exercise prescription based on testing results, medical and exercise history and risk stratification. Material and Supply fee will be assessed.

PET 5626 Rehabilitation of Athletic Injuries
3 sh (may not be repeated for credit)
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 4623; graduate students will be assigned a research project as additional graduate work.

PET 5701 Systematic Observation in Sport and Physical Education
3 sh (may not be repeated for credit)
Students will learn to use a systematic approach to observe sport and physical education instruction. Emphasis will be on using published systematic observation instruments and the development of new instruments as objective tools for observation.

PET 5702 Advanced Management of Physical Education Programs
3 sh (may not be repeated for credit)
This course will prepare students to effectively use current curricular theory and administrative techniques to design and implement effective developmentally and instructionally appropriate physical education programs. Emphasis is placed on developing and implementing the instructional component of physical education programs.

PET 5708 Instructional Design in Physical Education
3 sh (may not be repeated for credit)
The aim of this course is to examine models of and current research related to physical education curriculum and instructional design in schools and Physical Education Teacher Education programs. This course will provide students with skills that will enable them to interpret, critique, and evaluate models and research of physical education curricula and instructional design in schools and PETE programs.
PET 5709 Advanced Curriculum in Physical Education
3 sh (may not be repeated for credit)
This course will assist students in developing knowledge and skills in the development and assessment of the physical education learning environment. An emphasis will be placed on current curricular theory and practices beyond those covered in undergraduate physical education programs.

PET 5805 Analysis and Supervision in Physical Education
3 sh (may not be repeated for credit)
This course prepares students to analyze instructional quality in physical education teaching and program design.

PET 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PET 6003 Advanced Theoretical Models of Health and Physical Education
3 sh (may not be repeated for credit)
Provides the student with knowledge of common theoretical models used in health and physical education and the skills to use the theories in practice.

PET 6015 Professional Issues in Physical Education
3 sh (may not be repeated for credit)
This course will assist students in understanding the professional issues and concerns that are an inherent part of the physical education profession and to use that understanding to effective and positive participation in the profession of teaching physical education. Credit may not be received in both PET 6015 and PET 6010.

PET 6074 Successful Aging: Physiological Aspects
3 sh (may not be repeated for credit)
Designed to assist the student in developing an understanding of the complex changes that accompany advancing age and an appreciation for the functional consequences of these changes for subsequent behavior. Emphasis will be placed on the evaluation of cardiovascular, respiratory, musculoskeletal, and body composition changes with advancing age.

PET 6366C Advanced Human Nutrition and Metabolism
3 sh (may not be repeated for credit)
An advanced study of the role of nutrition as a means to enhance performance in exercise and sport. Topics include principles of energy metabolism, nutrients in their use during exercise, regulation of metabolism by macro and micro nutrients and their role in weight control with athletes. The validity and safety of proposed ergogenic aids are also explored. This course will evaluate the role of nutrition and supplementation vis-à-vis exercise. Topics include: fat, carbohydrate, protein, vitamin, mineral and water needs of the active person; energy metabolism; nutritional and body composition issues; nutritional concerns for special groups; sports supplements; body composition issues. Prerequisites: An undergraduate exercise physiology class.

PET 6516 Advanced Assessment and Evaluation in Health and Physical Education
3 sh (may not be repeated for credit)
Prepares doctoral students to assess student learning in PreK-12 and higher education settings and to conduct effective program evaluations.

PET 6535 Strategic Planning and Instructional Design in PE and Health
3 sh (may not be repeated for credit)
Examines instructional models, planning theory, and current research related to physical education and health curriculum and instructional design in K-12 schools and in higher education. Introduces students to the process of planning and designing elementary, secondary, and higher education physical education and health programs.

PET 6706 Analysis of Research on Teaching in Physical Education
3 sh (may not be repeated for credit)
The purpose of this course is to introduce students to various streams of research in physical education and help them to critically analyze the quality of that research and its influence on the teaching and learning process in physical education.

PET 6707 Research on Physical Education/Teacher Education
3 sh (may not be repeated for credit)
This course is designed to examine the development, design, and application of the research in physical education/teacher education.

PET 6708 Research on Teaching Physical Education and Health
3 sh (may not be repeated for credit)
Provides students with skills to interpret, critique, and evaluate research in physical education and health teaching. Attention focused on the application of research within the context of physical and health education teaching.

PET 6774 Models of Teaching in Physical Education and Health
3 sh (may not be repeated for credit)
Provides theory and practice in teaching strategies designed to facilitate learner achievement in the cognitive, affective, and psychomotor domains.

PET 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHYSICAL OCEANOGRAPHY Courses

OCP 4002 Physical Oceanography
3 sh (may not be repeated for credit)
Prerequisite: PHY 2048/L AND PHY 2053/L
An introduction to concepts in physical oceanography. Topics include: observation of temperature, salinity, density, and currents; wind-driven and geostrophic currents/density-driven circulation; upwelling; surface waves, tides, and internal waves; air/sea interaction; and waves and coastal processes.

OCP 4550 Global Climate Change: Oceanic/Atmospheric Interactions
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311/L AND GEO 3250/L
The role of the world ocean on climate in the present, past, and future. Causes and effects (like sea level change) of natural climate variability on time scales of millions to a few years. Interaction of ocean and atmosphere (greenhouse gases, currents, and wind). Discussions of impact of human activity and of future climate scenarios. Credit may not be received in both OCP 4550 and OCE 4008.
PHYSICS Courses

PHY 1020 Introduction to Concepts in Physics
3 sh (may not be repeated for credit)
An introductory survey of the natural laws of the universe. Presents the basic concepts associated with the scientific method, force and motion, matter and energy, electricity and magnetism, the atom and the solar system. Open to elementary education and other non-science majors. (General Studies Course: NS / LEC).

PHY 1020L Introduction to Concepts in Physics Laboratory
1 sh (may not be repeated for credit)
An introductory laboratory providing hands-on experience with basic experiments in physics involving the concepts of force and motion, matter and energy, electricity and magnetism, and the atom. Open to elementary education and other non-science majors. (General Studies Course: NS / LAB).

PHY 2001 University Physics I - Studio
5 sh (may not be repeated for credit)
Prerequisite: MAC 2311
University Physics I - Studio course is intended for physical science majors and engineers, and designed to be taken as a sequence with University Physics II (PHY 2049). This is a calculus based physics course. The principal topics covered in this course are mechanics-the science of motion- (kinematics and dynamics) of particles and rigid bodies including the laws of motion, conservation laws and principles, gravity, oscillations, fluid statics, and Thermodynamics.

PHY 2048 University Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Linear and rotational motion of objects in 1, 2, and 3 dimensions, concepts of work and energy, oscillations and waves, heat and thermodynamics. (General Studies Course: NS / LEC).

PHY 2048L University Physics I Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048
Selected experiments in mechanics, oscillatory motion, and heat. (General Studies Course: NS / LAB).

PHY 2049 University Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048
Continuation of PHY 2048. Electrostatics and magnetism; basic electric circuits; optics; selected topics in modern physics. (General Studies Course: NS / LEC).

PHY 2049L University Physics II Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048L AND PHY 2049
Selected experiments in optics, electricity, and magnetism. (General Studies Course: NS / LAB).

PHY 2053 General Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114 OR MAC 2311
Mechanics, heat, waves, and sound. (General Studies Course: NS / LEC).

PHY 2053L General Physics I Laboratory
1 sh (may not be repeated for credit)
Selected experiments in mechanics, oscillatory motion, and heat. (General Studies Course: NS / LAB).

PHY 2054 General Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHY 2053
Continuation of PHY 2053. Light, electricity and magnetism; elementary quantum theory; atomic, nuclear and particle physics. (General Studies Course: NS / LEC).

PHY 2054L General Physics II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PHY 2053L AND PHY 2054
Selected experiments in optics, electricity, and magnetism. (General Studies Course: NS / LAB).

PHY 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHY 3013 Physics and Mathematics for Game Programming
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 AND MAC 1114
Introduction to basic principles including linear and rotational motion with forces, friction, air resistance, gravity, collisions, waves, geometry, vectors, matrices, derivatives, applications to 2-D and 3-D transformations and rendering, 2-D and 3-D kinematics, and dynamics, simulation of water, waves, cars, hovercraft, ships and boats, aircraft and spacecraft.

PHY 3106 Modern Physics I
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049
Introduction to modern physics, theory of relativity, electromagnetic waves and photons, matter waves, quantum theory, atomic structure, quantum mechanics.

PHY 3106L Modern Physics Laboratory
2 sh (may not be repeated for credit)
Selected experiments in modern physics and optics. Material and supply fee will be assessed.

PHY 3107 Modern Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHY 3106
Special topics in modern physics: quantum mechanics, atomic structure, molecular structure, atomic and molecular spectra, physics of solids, and band structure, nuclear structure, nuclear forces, radioactive decay and nuclear reactions, elementary particles, and fundamental interactions.

PHY 3220 Intermediate Mechanics
4 sh (may not be repeated for credit)
Prerequisite: MAP 2302 AND PHY 2048
Particle mechanics in 1, 2 and 3 dimensions for various forces. Central forces and celestial mechanics. Systems of many particles. Rigid body dynamics. Introduction to Lagrangian methods.
PHY 3424 Optics
3 sh (may not be repeated for credit)
Prerequisite: PHZ 4113
Geometrical, physical, and modern optics. Polarization, interference, diffraction, holography, and optical fibers.

PHY 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHY 4323 Electricity and Magnetism I
3 sh (may not be repeated for credit)
Prerequisite: PHZ 4113
Electrostatics, Gauss's Theorem, magnetic fields, Biot-Savart Law, electromagnetic induction, introduction to Maxwell's Equations, and electromagnetic waves.

PHY 4325 Electricity and Magnetism II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4323
Maxwell’s equations and electromagnetic waves in vacuum and in a medium, radiation from dipoles and antennas, transmission lines, wave guides, relativistic electrodynamics, Lienard-Weichert Potentials.

PHY 4445 Lasers and Applications
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049
Introduction to lasers and applications covering topics on nature of light, photons, elements of semi-conductor physics, modulation of light, displays, laser principles, types of lasers and their design, photodetectors, fiber optics, optical communications.

PHY 4513 Thermodynamics and Kinetic Theory
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND PHY 2048
Co-requisite: PHZ 4113

PHY 4604 Quantum Theory I
3 sh (may not be repeated for credit)
Prerequisite: PHY 3107
This is the first semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics and is an introduction to the main concepts and tools for applying quantum mechanics to a variety of different problems.

PHY 4605 Quantum Theory II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4604
This is the second semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics. This course emphasizes the application of quantum mechanics to a variety of problems. Offered Spring semester only.

PHY 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHY 4910 Undergraduate Research
1-2 sh (may be repeated for up to 10 sh of credit)
Prerequisite: PHY 3106
Co-requisite: PHY 3106
Undergraduate experimental or theoretical research under the direction of physics faculty.

PHY 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHYSICS (CONTINUED) Courses

PHZ 3108 Intermediate-Level Physics Problems
1 sh (may not be repeated for credit)
Prerequisite: PHY 2049
Practicum in the art of solving problem across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core.

PHZ 4113 Mathematical Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Algebra of complex numbers, Taylor series, Fourier series, vector algebra and calculus, and curvilinear coordinates.

PHZ 4114 Mathematical Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHZ 4113
Special functions, boundary value problems, partial differential equations, series solutions, and integral transforms.

POLITICAL SCIENCE Courses

POS 2041 American Politics
3 sh (may not be repeated for credit)
Deals with the constitutional principles on which the republic was founded, the evolution of institutions which emerged after 1789, and the development of processes and policies in response to 20th Century challenges and changes in the political culture. (General Studies Course: SS / SOC).

POS 3013 Professional Development
1 sh (may not be repeated for credit)
This course prepares students with the necessary skills to succeed in the workplace after graduation. Emphasis will be placed on becoming familiar with the various industries that value degrees in political science, international studies, and pre-law. Students will become familiar with the vast body of political science literature, develop scientific communication skills, and also learn practical skills such as how to write a good resume, and navigating the professional world of interviews and networking. An in-class quiz may be given on the reading. This course will host various guest speakers.
POS 3033 Analyzing Issues in American Politics
3 sh (may not be repeated for credit)
From the education of our children to the safety of our airlines, those who make the laws affect each of our lives on a daily basis. Rarely, however, is the public aware of the process by which new ideas become law of the reasons why archaic policy solutions are left unchanged. A survey of contemporary issues in American politics such as energy and the environment, education, health care, welfare programs, crime and the economy. Throughout the semester, we will grapple with competing theories and competing methodologies for describing, analyzing, and evaluating what governments do in the political world in which we currently live.

POS 3072 Women and Politics
3 sh (may not be repeated for credit)
The evolution of women's involvement in politics, as voters, activists, candidates, and public officials. The history of the women's movement will be traced from the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Examines the contemporary participation of women in American political institutions, particularly the U.S. Congress and state legislatures. Outlines the character and substance of women's participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 3122 Issues in American Government and Politics
3 sh (may not be repeated for credit)
Significant issues relative to the constitutional, organizational and political processes of American government and politics.

POS 3413 The Presidency
3 sh (may not be repeated for credit)
We begin our exploration of the American presidency with a critical overview of the constitutional parameters of the executive office. What did our founding fathers expect from an executive? From there we examine how the presidential institution has evolved since the founding. The presidency definitely has a somewhat different place now in our separated system of branches sharing power than it once did. One of the most important features we address is how individual presidents have impacted the scope and direction of the office. We highlight the important role of person style, leadership, persuasion, and charisma as an influence on American government as a whole. Finally, we evaluate competing theories of presidential power to see how useful they are in explaining contemporary presidential politics.

POS 3424 The Legislative Process
3 sh (may not be repeated for credit)
Prerequisite: POS 2041
Politics of accommodation in formulating authoritative policies and general rules; emphasis on U.S. Congress and Florida Legislature in action; relations to other governmental processes.

POS 3453 Political Parties and Interest Groups
3 sh (may not be repeated for credit)
Prerequisite: POS 2041
Political parties, nominations, campaigns, elections, voting behavior, political recruitment, party organization and parties as managers of government. Roles and functions of interest groups.

POS 3413 The Presidency
3 sh (may not be repeated for credit)
Discussion of the debates behind the creation and adoption of the American Constitution. Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress.

POS 3608 Constitutional Law: Federalism and Separation of Powers
3 sh (may not be repeated for credit)
Offers an introduction to the fundamental features of the Supreme Court and its Constitutional jurisprudence. In particular, students will examine through a case-study approach the evolution of judicial review, separation of powers, powers of the President and Congress, the evolution of federalism, the national commerce power, and national taxing and spending powers.

POS 3602 The Founders' Constitution
3 sh (may not be repeated for credit)
Discussion of the debates behind the creation and adoption of the American Constitution. Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress.

POS 3604 Constitutional Law: Individual Rights and Privileges
3 sh (may not be repeated for credit)
Offers an introduction to Supreme Court's role in the protection of individual rights, due process, and the equal protection of the laws. In particular, students will examine through a case study approach the evolution of the Court's jurisprudence in cases pertaining to civil rights and individual freedoms protected under the Constitution of the United States.

POS 3605 First Amendment Freedoms
3 sh (may not be repeated for credit)
Problem areas and doctrinal evolution in the judicial protection of First Amendment freedoms. Among specific subjects to be examined will be: free speech and press, free exercise of religion, state aid to religious schools, regulation of obscenity, freedom of association, and regulation of subversive activity.

POS 3734 Political Science Research Methods
3 sh (may not be repeated for credit)
Introduction to research methods in political science and the concepts associated with it. Surveys, polling, research design, sampling, data analysis and library research.
POS 3XX2 Women and Politics
3 sh (may not be repeated for credit)
This course traces the evolution of women’s involvement in politics as voters, activists, candidates, and public officials. First, the history of the women’s movement will be traced from the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Secondly, this course will examine the contemporary participation of women in American political institutions. It will examine the character and substance of women’s participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 4905 Directed Study
1-12 sh (may be repeated independently for credit)
POS 4941 Internships
1-6 sh (may not be repeated for credit)
Special "real-world" encounters programs designed for the individual student. Student must contact their advisor one semester in advance of desired date for internship. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

POS 4940 Internship
2-6 sh (may not be repeated for credit)
The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-sector firms, as an opportunity to gain practical experiences in a field of endeavor related to political science. In some instances, the internship could provide the intern with an opportunity for future employment. Although students are free to find their own internships, the Department will work with students in accomplishing this task. Eligibility requirements for an internship: 3.0 or higher GPA. Students should be enrolled in the Masters of Political Science Program, and have completed all core courses. Graded on satisfactory / unsatisfactory basis only. Permission is required.

POS 4905 Directed Study
1-12 sh (may be repeated independently for credit)
POS 6940 Internship
2-6 sh (may not be repeated for credit)
The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-sector firms, as an opportunity to gain practical experiences in a field of endeavor related to political science. In some instances, the internship could provide the intern with an opportunity for future employment. Although students are free to find their own internships, the Department will work with students in accomplishing this task. Eligibility requirements for an internship: 3.0 or higher GPA. Students should be enrolled in the Masters of Political Science Program, and have completed all core courses. Graded on satisfactory / unsatisfactory basis only. Permission is required.

POS 6045 Seminar in American Politics
3 sh (may not be repeated for credit)
Course content includes an overview of the institutions and processes of the American political system, the trend and tendencies of political behavior, and the diverse theoretical understandings of American government in the world of political science. Focus is on understanding and critically evaluating interpretations of the structure and function of our governmental system, including: the three branches of government, elections, political socialization and civic engagement, representation, political parties, and interest mobilization.

POS 6116 State and Local Government Principles and Practices
3 sh (may not be repeated for credit)
This course will focus on variation in the way state and local governments are designed to work and the way levels of government interact. We will begin by reviewing the powers granted to the states in the Constitution. We will compare state constitutions and look at their similarities and differences. We will take a detailed look at state governments, particularly state legislatures, governors, and state courts; and local governments and party organizations. We will also compare states and localities in the context of policy on education, health care, crime, and the environment.

POS 6704 Political Science Research Methods
3 sh (may not be repeated for credit)
Methods and logic of research in political science.

POS 6905 Directed Study
1-12 sh (may be repeated independently for credit)
POS 6940 Internship
2-6 sh (may not be repeated for credit)
The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-sector firms, as an opportunity to gain practical experiences in a field of endeavor related to political science. In some instances, the internship could provide the intern with an opportunity for future employment. Although students are free to find their own internships, the Department will work with students in accomplishing this task. Eligibility requirements for an internship: 3.0 or higher GPA. Students should be enrolled in the Masters of Political Science Program, and have completed all core courses. Graded on satisfactory / unsatisfactory basis only. Permission is required.

POS 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

POLITICAL THEORY Courses
POT 3103 Law and Politics in Literature
3 sh (may not be repeated for credit)
Discussion of law and politics within history’s most prominent literary works. Examination of the rule of law within political life in relation to character and plot development. Exploration in the ways in which literature illustrates the challenges posed by human nature to the just administration of law.
POT 4013 Ancient Masters of Political Thought
3 sh (may not be repeated for credit)
A survey of several of the seminal works by political theorists of the ancient and medieval period, including Plato, Aristophanes, Xenophon, Aristotle, Cicero, and St. Augustine. Readings will introduce such themes as the classification of regimes, the debate between the poets and the philosophers, the role of the virtues in perpetuation of civic order, the problem of the many and the one, the tension between the philosopher and the city, the problems of justice, the ideas of Nature and human nature, and the status of the gods and/or religion in political life. Graduate course POT 5016 will have additional work. Course only offered Fall semester.

POT 4204 American Political Thought
3 sh (may not be repeated for credit)
Significant American political theorists, schools of thought and their influence on the political system. Offered concurrently with POT 5207; graduate students will be assigned additional work.

POT 4354 Contemporary Political Philosophy
3 sh (may not be repeated for credit)
This course explores America’s faith in scientific progress with an eye toward the theoretical pursuit of happiness. We like science. But has science actually made us happier? Can it deliver the goods? This course explores this phenomenon through philosophy, film, and literature. Reading Thomas More’s Utopia, S. Lewis? The Abolition of Man, Aldous Huxley’s Brave New World, and other works, students will explore the American infatuation with scientific progress and the implications for our self-understanding and our shared understanding of the good life. Offered concurrently with POT 5355; graduate students will be assigned additional work.

POT 4601 Modern Masters of Political Thought
3 sh (may not be repeated for credit)
Evaluates ideas about the origin, justification, organization, and performance of government by great thinkers from Machiavelli to the present. Offered concurrently with POT 5602; graduate students will be assigned additional work.

POT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PORTUGUESE Courses
POR 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

POR 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

POR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PROCESS BIO:CELL/MOLE/ECO Courses
PCB 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PCB 3063 Genetics
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)
Co-requisite: PCB 3063L
Origin, development and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3063L Genetics Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 3063

Corresponding lab for Genetics.

PCB 3097 Introduction to Human Anatomy
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields.
PCB 3097L Introduction to Human Anatomy Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: PCB 3097  
Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields.

PCB 3103 Cell Biology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 2011/L  
Cell biology is the study of the structure and function of eukaryotic cells. The course will cover the basics of cellular function and biochemical foundations, cellular genetics and molecular biology, cell structure and function, cell signaling, and cytoskeletal organization and regulation. Relevant current topics in the news and disease case studies will also be used to more broadly apply the topics learned throughout the course to real-world situations.

PCB 3103L Cell Biology Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: PCB 3103  
Cell biology Laboratory is designed to provide the fundamental training in the current techniques and methodologies used in research laboratories. The laboratory is to complement the cell biology lecture, however can be taken independently. The experiments are associated with the following topics: microscopy (bright-field and fluorescence), the scientific method, biochemistry, cellular organization, structure and function relationships, cellular energetics, biotechnology, forensic investigations, and the immunology of the wound response.

PCB 3253 Developmental Biology  
4 sh (may not be repeated for credit)  
Prerequisite: BSC 2011/L  
Co-requisite: PCB 3253L  
Development from molecular, cellular and multicellular aspect; information flow, morphogenesis and differentiation in multicellular animals and plants. Material and supply fee will be assessed for corresponding lab.

PCB 3253L Developmental Biology Lab  
0 sh (may not be repeated for credit)  
Co-requisite: PCB 3253  
Corresponding lab for Developmental Biology.

PCB 3905 Directed Study  
1-12 sh (may not be repeated indefinitely for credit)

PCB 3930 Biology Seminar Series  
1 sh (may not be repeated for credit)  
Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB4922 and PCB5924; graduate students will be assigned additional work.

PCB 4043 Ecology  
4 sh (may not be repeated for credit)  
Prerequisite: (BOT 2010/L AND CHM 2046/L AND STA 2023) OR BSC 2011/L  
Co-requisite: PCB 4043L  
Interactions of microorganisms, plants, and animals with abiotic and biotic factors in the environment are examined as determinants of the distribution and abundance of species, population dynamics and ecosystem function. General concepts and methodologies of ecological science are discussed at individual, population, community and ecosystem levels of organization. Material and Supply Fee will be assessed for corresponding lab.

PCB 4043L Ecology Lab  
0 sh (may not be repeated for credit)  
Co-requisite: PCB 4043  
Corresponding lab for Ecology.

PCB 4048 Estuarine Ecology  
4 sh (may not be repeated for credit)  
Prerequisite: CHM 2046/L AND PCB 4043  
Co-requisite: PCB 4048L  
Physical, chemical, and geological / sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 5445; graduate students will be assigned additional work.

PCB 4048L Estuarine Ecology Laboratory  
0 sh (may not be repeated for credit)  
Co-requisite: PCB 4048  
Field and laboratory techniques in estuarine ecology, accompanies the lecture component of PCB 4048. Common field and laboratory techniques in estuarine ecology will be emphasized. Offered concurrently with PCB 5445L (Estuarine Ecology Laboratory); graduate students will be assigned additional work. Material and Supply Fee will be assessed.

PCB 4098 Concepts in Human Physiology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 2011/L  
Concepts in Human Physiology is a 3 credit lecture and 1 credit lab course for students interested in areas related to human physiology. It covers physiological mechanisms of the human body. Emphasis is placed on mechanisms designed to maintain homeostatic conditions, membrane dynamics and cell signaling including endocrine and nervous signals, as well as other vital physiologic mechanisms necessary to homeostasis.

PCB 4098L Concepts in Human Physiology Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: PCB 4098  
Concepts in Human Physiology is a 3 credit lecture and 1 credit laboratory course for students interested in areas related to human physiology. The laboratory portion will consist of laboratory exercises design to reinforce concepts learned in lecture. Laboratory exercises include modeling cellular activities and metabolic reactions, as well as measurements and experiments related to organ system function.
PCB 4233 Immunology
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020 OR (CHM 2210 AND PCB 3103)
Basic principles of immunology to include humeral and cell-mediated immune mechanisms, the complement system and the inflammatory response. Offered concurrently with PCB 5235; graduate students will be assigned additional work.

PCB 4233L Immunology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PCB 4233
Selected experiments in immunology. Special permission required. Permission granted on the basis of fulfilling prerequisite. Material and Supply Fee will be assessed. Offered concurrently with PCB 5235L; graduate students will be assigned additional work.

PCB 4364 Marine Ecological Physiology
3 sh (may not be repeated for credit)
Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 5319; graduate students will be assigned additional work.

PCB 4364L Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PCB 4364
Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and Supply Fee will be assessed. Offered concurrently with PCB 5319L; graduate students will be assigned additional work.

PCB 4442 Wetlands Ecology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: PCB 4442L
Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 5446; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fees will be assessed for corresponding lab.

PCB 4442L Wetlands Ecology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 4442
Corresponding lab for Wetlands Ecology.

PCB 4482 Quantitative Ecology
3 sh (may not be repeated for credit)
Prerequisite: PCB 4043 AND STA 2023
Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations, and communities. Methods of estimating abundance, survival, habitat selection, species diversity and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 5480; graduate students will be assigned additional work.

PCB 4522 Genetic Engineering
3 sh (may not be repeated for credit)
Prerequisite: PCB 3063
Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 5525; graduate students will be assigned additional work.

PCB 4524 Molecular Biology
4 sh (may not be repeated for credit)
Prerequisite: BCH 3033/L
Co-requisite: PCB 4524L
Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 5527; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 4524L Molecular Biology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 4524
Corresponding lab for Molecular Biology.
PCB 4673 Principles of Evolution
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 5675; graduate students will be assigned additional work.

PCB 4703 Human Physiology
3 sh (may not be repeated for credit)
Physiological mechanisms of various organ systems in the human body. Emphasis on transport mechanisms, renal function, hormones, respiration, cardiac function, muscle physiology, digestion, and immune systems.

PCB 4723 Comparative Animal Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with PCB 5727; graduate students will be assigned additional work.

PCB 4723L Comparative Animal Physiology Laboratory
1 sh (may be repeated for up to sh of credit)
Prerequisite: PCB 4723
General and comparative animal physiology. Complex structures, phenomena, and concepts involved in regulation of a variety of physiological mechanisms. Material and Supply Fee and Equipment Fee will be assessed. Offered concurrently with PCB 5727L; graduate students will be assigned additional work.

PCB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PCB 4910 Tropical Ecology - Florida Keys/Dry Tortugas
1-3 sh (may not be repeated for credit)
A research and expedition course to study ecosystem of the Florida Keys/Dry Tortugas. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. In addition, a series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 5915; graduate students will be assigned additional work.

PCB 4911 Tropical Ecology - Indonesia
1-3 sh (may not be repeated for credit)
A research and expedition course to study ecosystem of Indonesia. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. In addition, a series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 5914; graduate students will be assigned additional work.

PCB 4912 Tropical Ecology - Honduras
1-3 sh (may not be repeated for credit)
A research and expedition course to study ecosystem of Honduras. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. In addition, a series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna to give them a greater appreciation for tropical ecology. Cross listed with PCB 5913; graduate students will be assigned additional work. Department Permission is required.

PCB 4922 Biology Seminar
1 sh (may not be repeated for credit)
Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB5924 and PCB3930 (Biology Seminar); graduate students will be assigned additional work.

PCB 5235 Immunology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5235L
The basic principles of immunology will be addressed. Immune-mediated disease processes will be discussed. Offered concurrently with PCB 4233; graduate students will be assigned additional work.

PCB 5235L Immunology Laboratory
1 sh (may not be repeated for credit)
Selected experiments in immunology. Permission is required. Permission granted on the basis of fulfilling prerequisite or co-requisite. Material and supply fee will be assessed. Offered concurrently with PCB 4233L; graduate students will be assigned additional work.

PCB 5319 Marine Ecological Physiology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5319L
Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, osic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 4364; graduate students will be assigned additional work.

PCB 5319L Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: PCB 5319
Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, osic, and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and supply fee will be assessed. Offered concurrently with PCB 4364L; graduate students will be assigned additional work.
PCB 5344 Tropical Ecology - Costa Rica
1-3 sh (may not be repeated for credit)
Tropical ecology is an eight week course where students travel to a tropical field research site in Indonesia, Costa Rica, or Honduras (other sites may be approved by the faculty advisor and International Travel Abroad on a case by case basis). Once on site students will study one or more of the following ecosystems: coral reefs, mangrove forests, tropical dry forest, tropical rain forests and/or tropical cloud forests. Students will attend field lectures discussing selected topics in tropical ecology. A slide show featuring local plants and animals will familiarize students with the local flora and fauna and give them an appreciation for tropical ecology. Offered concurrently with PCB 4374; graduate students will be assigned additional work. Permission is required.

PCB 5445 Estuarine Ecology
4 sh (may not be repeated for credit)
Co-requisite: PCB 5445L
Physical, chemical, and geological / sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 4048; graduate students will be assigned additional work.

PCB 5445L Estuarine Ecology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: PCB 5445
Field and laboratory techniques in estuarine ecology, accompanies the lecture component of PCB 5445. Common field and laboratory techniques in estuarine ecology will be emphasized. Offered concurrently with PCB 4048L (Estuarine Ecology Laboratory); graduate students will be assigned additional work. Material and Supply Fee will be assessed.

PCB 5446 Wetlands Ecology
4 sh (may not be repeated for credit)
Co-requisite: PCB 5446L
Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influence on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 4442; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fee will be assessed for corresponding lab.

PCB 5446L Wetlands Ecology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 5446
Corresponding lab for Wetlands Ecology.

PCB 5480 Quantitative Ecology
3 sh (may not be repeated for credit)
Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations and communities. Methods of estimating abundance, survival, habitat selection, species delivery and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 4482; graduate students will be assigned additional work.

PCB 5525 Genetic Engineering
3 sh (may not be repeated for credit)
Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 4524; graduate students will be assigned additional work.

PCB 5527 Molecular Biology
4 sh (may not be repeated for credit)
Co-requisite: PCB 5527L
Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 4524; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 5527L Molecular Biology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 5527
Corresponding lab for Molecular Biology.

PCB 5675 Principles of Evolution
3 sh (may not be repeated for credit)
A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 4673; graduate students will be assigned additional work.

PCB 5727 Comparative Animal Physiology
3 sh (may not be repeated for credit)
General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals.

PCB 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
PCB 5913 Tropical Ecology - Honduras
1-3 sh (may not be repeated for credit)
A research and expedition course to study ecosystem of Honduras. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. In addition, a series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 4912; graduate students will be assigned additional work. Department Permission is required.

PCB 5914 Tropical Ecology - Indonesia
1-3 sh (may not be repeated for credit)
A research and expedition course to study ecosystem of Indonesia. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. In addition, a series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 4911; graduate students will be assigned additional work. Department Permission required.

PCB 5915 Tropical Ecology - Florida Keys/Dry Tortugas
1-3 sh (may not be repeated for credit)
A research and expedition course to study ecosystem of the Florida Keys/Dry Tortugas. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. In addition, a series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 4910; graduate students will be assigned additional work. Department Permission is required.

PCB 5924 Biology Seminar
1 sh (may not be repeated for credit)
Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB 4922; graduate students will be assigned additional work.

PCB 6074 Experimental Design in Biology
3 sh (may not be repeated for credit)
Covers experimental design in relation to the analysis of biological data. Topics include sources of error, variation in biological systems, replication and pseudoreplication, controls, multiplicity, sample size and randomization. The physical layout of biological experiments in the field and laboratory will be discussed in relation to basic parametric data analysis techniques.

PCB 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PCB 6943 Internship in Biotechnology
3-6 sh (may not be repeated for credit)
An internship in biotechnology or related industry. Students will work on a problem related to management, development or administration of a program in biotechnology or to research in biotechnology. Prior completion of the graduate level core courses in the MS Biology / Biotechnology Fast Track is required. Internship is mandatory for students in the non-thesis Fast Track program. A written report on the internship experience will be presented orally to a committee selected by the student's course supervisor. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

PCB 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

PSYCHOLOGY Courses

PCB 4002 Brain, Behavior, and Experience
3 sh (may not be repeated for credit)
Introduction to the brain and its relationship to behavior and experience. Topics covered: structure and function of the nervous and endocrine systems, sensation / perception, emotion and motivation, thinking and consciousness, learning and memory, malfunctions of the mind.

PSB 4731 Psychobiology of Sexual Behavior
3 sh (may not be repeated for credit)
Prerequisite: DEP 2004 AND PSY 2012 AND BSC 1005 AND PSB 4002
Study of biological and sociocultural determinants of sexual development throughout the human life span. Special emphasis is given to sexual orientation, sexual preference, sexual variance, and purported gender differences.

PSB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PSB 5035 Cognitive Neuroscience
3 sh (may not be repeated for credit)
Biological bases of mind and behavior: History and methods of cognitive neuroscience; evolutionary perspectives on cognition; neural substrates of development and motor control, attention and perception, learning and memory, language and consciousness, cerebral lateralization and specialization.

PSB 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PSY 2012 General Psychology
3 sh (may not be repeated for credit)
A survey of methods, theories, and body of knowledge of contemporary psychology, including such topics as learning, motivation, sensation and perception, development, thinking, personality, social behavior, psychological adjustment, and methods of therapy. (General Studies Course: SS / BEH).
PSY 2023 Careers in Psychology
1 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Will provide students with an overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor degree in psychology, and career options for students who pursue a graduate degree in psychology. Skills required for library research, writing in the style of the American Psychological Association, and ethical and professional issues will be discussed.

PSY 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PSY 3213 Research Methods in Psychological Science I
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 AND STA 2023
The first course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a basic or descriptive understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.

PSY 3215 Research Methods in Psychological Science II
3 sh (may not be repeated for credit)
Prerequisite: PSY 3213
The second course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a more complex or inferential understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.

PSY 3680 Positive Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
The scientific study of positive experience including a review of the historical and philosophical foundations of positive psychology and of its contributions to traditional research and practice areas in psychology. Specific emphasis is on the applied positive psychology perspective of the pursuit of the good life, health and well-being, positive psychology at work, clinical psychology and psychotherapy, and positive development across the lifespan.

PSY 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PSY 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty customize courses to fit a full range of services available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required. Graded on a satisfactory / unsatisfactory basis only.

PSY 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.

PSY 4302 Psychology of Assessment
3 sh (may not be repeated for credit)
Fundamentals of testing and measurement of aptitude, achievement and personality. STA 2023 is recommended prior to taking this course. Credit may not be received in both PSY 4302 and PSY 4383.

PSY 4832 Sport and Exercise Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Introduces students interested in psychology, exercise science, physical education, sports medicine, coaching, athletic training or fitness instruction, to principles of psychology as applied to sports and exercise. Topics covered include methods of performance enhancement and mental training, exercise adherence, violence in sports, effects of sports on children, team dynamics, and drug and steroid use among athletes.

PSY 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PSY 5016 Conjunctive Psychology
2 sh (may not be repeated for credit)
A practical and integrated overview of the fundamental dynamics of human behavior and consciousness, drawing from all the world's psychologies, and emphasizing contributions not well known in Western Psychology. Topics include breathwork, nutrition, ayurveda, pranayama, chi kung, chakras, yoga, behaviors of the mind, states and levels of consciousness, self and will, and transpersonal awakening, and their applications in professional settings.

PSY 5016L Conjunctive Psychology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: PSY 5016
Practical experience and skill training that parallel topics of the lecture course. Grading is based on attendance and participation, and contribution to the class.

PSY 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
**PSYCHOLOGY OF COUNSELING Courses**

**PSY 6217 Research Design in Psychology**
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
This course focuses on quantitative research approaches with particular attention given to the selection of procedures for obtaining empirical data that provide meaningful answers to research questions and to the relation between research design and statistical analysis. Topics include researching the literature, developing research questions, designing and evaluating empirical research, and communicating research methods and results in standard technical format (APA style). Ethical issues in the conduct of research will be addressed.

**PSY 6905 Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**PSY 6917 Supervised Research**
1-3 sh (may be repeated for up to 12 sh of credit)
Credit is earned by serving in an apprenticeship position under a faculty member and assisting with one or more research projects. Although the student may enroll in more than one supervised experience in research or teaching (see PSY 6940), a maximum of 3 sh in supervised experiences will be applied toward the degree requirements. Permission is required.

**PSY 6940 Supervised Teaching**
1-6 sh (may be repeated for up to 12 sh of credit)
Credit is earned by serving in an apprenticeship position under a faculty member and assisting with the teaching of one or more courses. Although the student may enroll in more than one supervised experience in teaching or research (see PSY 6917), a maximum of 3 sh for supervised experiences will be applied toward the degree requirements. Permission is required.

**PSY 6948 Internship**
1-6 sh (may be repeated for up to 12 sh of credit)
Supervised experience in community, agency, school, or business organization where student serves as full-time staff member. Student participates in full range of services available in the setting. An internship portfolio and paper are required. May enroll for more than one term-total of 6sh required for M.A. degree. Minimum of 600 clock hours required. Graded on satisfactory / unsatisfactory basis only. Permission is required.

**PSY 6971 Thesis**
1-6 sh (may be repeated for up to 36 sh of credit)
Includes research projects, theoretical treatises and case studies. May enroll for more than one term-total of 6sh required for M.A. degree. Graded on satisfactory / unsatisfactory basis only. Permission is required.

**PSY 8980 Dissertation**
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant psychological interest; designed specifically for candidates in the Ed. D Curriculum and Instruction Program-Social Sciences / Psychology Specialization. Reflects intensive social science research produced by the student with guidance from the major professor and doctoral committee members. Admission to candidacy and permission is required. Graded on satisfactory / unsatisfactory basis only.

**PCO 2202 Introduction to General Counseling Techniques**
3 sh (may not be repeated for credit)
Develops basic skills and techniques needed for a person to be effective in the helping process and to learn about the qualities and conditions necessary for counseling.

**PCO 2905 Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**PCO 4242 Introduction to Group Counseling**
3 sh (may not be repeated for credit)
Theory, research and practice of group processes. Provides an opportunity for participation or observation of group counseling.

**PCO 4310 Intervention in Addictions**
3 sh (may not be repeated for credit)
Models of addictive behaviors and implications for assessment and treatment of addiction. Emphasis primarily on alcohol and drug abuse, with information on smoking and obesity included.

**PCO 4905 Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**PCO 6204 Pre-Practicum: Techniques of Counseling and Psychotherapy**
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166 AND PCO 6216
Co-requisite: PCO 6206C, PCO 6246
Experientially-based with an emphasis on counseling and psychotherapeutic techniques and behavior, including the identification and acquisition of broad communication and relationship-building skills, particular counseling techniques, and the development of a counseling response repertoire. Students also develop an understanding of the interaction between theory and technique as it applies to clinical practice, as well as develop their case conceptualization and case management skills. Simulated supervised counseling experience is provided through the use of micro-counseling and role-playing. Provides the opportunity to practice actual counseling skills and techniques prior to the practicum and internship experiences. The practicum placement process is included.

**PCO 6206C Ethical and Professional Issues in Counseling**
3 sh (may not be repeated for credit)
In depth review of critical issues in the practice of mental health counseling, including the professional organizations and ethical standards for psychologists and counselors, legal and professional requirements for practicing in the profession, and the rights of clients. Topics include standards of preparation, certifications and licensing, and the role identity and professional obligations of mental health counselors. Relevant issues for school counselors will be addressed.

**PCO 6216 Theories of Individual Counseling**
3 sh (may not be repeated for credit)
Overview of major contemporary theoretical approaches to individual counseling and psychotherapy.

**PCO 6246 Theories of Group Counseling**
3 sh (may not be repeated for credit)
Overview of major contemporary theoretical approaches to group counseling and psychotherapy.
PCO 6278 Multicultural Counseling
3 sh (may not be repeated for credit)
Addresses the similarities and differences among various culturally diverse groups, and informs counselors of the characteristics and processes necessary to become a culturally skilled counselor.

PCO 6312 Substance Abuse Counseling
3 sh (may not be repeated for credit)
Examines the misuse of alcohol and other drugs, and how they affect biological, psychological, social and familial spheres of functioning. Designed to convey to counselors-in-training and community professionals the most essential information about licit and illicit drugs, provide an overview of the prominent theoretical models of addiction, and explore various clinical methods for assessing and treating substance use disorders. Courses in Theories of Individual, Group, or Family Counseling are recommended.

PCO 6315 Assessment in Counseling
3 sh (may not be repeated for credit)
Practical training in the process of clinical assessment in mental health counseling. Includes an introduction to the science of clinical assessment with a focus on the use of assessment techniques such as interviewing and psychological testing, in a professionally and ethically responsible manner. Includes an experiential component in which the student will develop beginning skills in the use of clinical assessment techniques, under supervision. Permission is required. Material and Supply Fee will be assessed.

PCO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PCO 6946 Practicum in Counseling
3 sh (may not be repeated for credit)
Placement of the student in a local mental health agency for 8-10 hours each week. The emphasis of this experience is on development of clinical skills in interviewing, assessment, and counseling of individuals, groups, and families. Students will complete a minimum of 150 hours of field placement of which at least 40 will be in direct client contact. There is a weekly class meeting and individual supervision with the instructor in addition to the clinical activities and supervision at the practicum site. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PCO 6948 Internship in Counseling
1-6 sh (may be repeated for up to 9 sh of credit)
The student functions as a staff member and participates in the full range of clinical and professional activities of the internship site under supervision. A weekly university based seminar will accompany field placement. Students in the 60sh M.A. Licensure Option must register for more than one term (total of 6sh required) and will complete a minimum of 850 hours of field placement, of which at least 240 will be in direct client contact. An internship paper and portfolio are required. Students in the 45sh M.A. degree program must complete 3sh with at least 300 hours of field placement. Graded on a satisfactory / unsatisfactory basis only. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PUBLIC ADMINISTRATION Courses
PAD 3003 Public Administration in American Society
3 sh (may not be repeated for credit)
Effective administration of government agencies, nonprofit organizations and other civil institutions is necessary if American democracy is to thrive. Addresses that challenge by examining the administration of governmental and nonprofit organizations using both traditional concepts (e.g. administrative theory, civil service systems, human relations movement) and more contemporary concepts (the new public administration, reinventing government).

PAD 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PAD 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PAD 4949 Cooperative Education
0 sh (may not be repeated for credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on a satisfactory / unsatisfactory basis only. Master level student and permission of director of Cooperative Education is required.

PAD 5107 Modern Public Organization Theory
3 sh (may not be repeated for credit)
Analysis of contemporary theories of organizations applicable to individual, group and system levels. Public organizations treated generically with examples and applications primarily drawn from the public and nonprofit sectors. May not be taken for credit by students having credit for MAN 5204 or SOP 5617.

PAD 5146 The Nonprofit Profession
3 sh (may not be repeated for credit)
Overview of the field of nonprofit organizations from a management perspective. Human resource management (including working with volunteers and professionals), public relations, board relations, daily operations, financial matters, and ethics.

PAD 5386 Leadership, Community, and Change
3 sh (may not be repeated for credit)
An action research based course that imparts the knowledge and competencies required for the promotion of community change based upon techniques for diagnosis of community needs, evaluation of related community resources, planning intervention based on needs and resources, and implementation and evaluation of program results, all in the context of best leadership practices.

PAD 5434 Leadership
3 sh (may not be repeated for credit)
Leadership styles and techniques of people in all levels of government - executive, legislative and administrative and in the community in general. Will attempt to help students assess their own strengths and weaknesses as leaders and determine a strategy for that development.
PAD 5605 Administrative Law
3 sh (may not be repeated for credit)
Explores the legal foundations and administration of public service administrative law. Focuses on the development of the American administrative state; legislative and judicial controls over agency discretionary power; the limits of judicial review; the legality of administrative action; agency rule-making and administrative discretion of public managers; and the liability of public managers for unlawful acts.

PAD 5635 Government Contract Law
3 sh (may not be repeated for credit)
Government contract law and ethics. Major provisions of the federal Procurement Integrity Act and general federal acquisition contract principles. Authority of contracting officers, delegation of contracting officer authority, and impact of delegation. Procedures for formation of government contracts and contract protest, government property fundamentals, government contract funding and fiscal matters, labor, social, economic, environmental concerns and fraud. Legal aspects of inspection, acceptance, delivery, warranties, changes, terminations and contract disputes.

PAD 5855 Acquisition Administration
3 sh (may not be repeated for credit)
Working knowledge of government contracting policies and procedures needed to evaluate and analyze methods of solicitation and awarding of federal government contracts in the most advantageous manner for the government client.

PAD 5862 Government Cost and Pricing Analysis
3 sh (may not be repeated for credit)
Government Cost and Pricing policies and procedures needed to prepare or evaluate and analyze cost proposals and costs incurred in Federal Government Contracts. Components of government cost and price analysis in federal contracting as defined by the Defense Contracting Auditing Agency (DCAA). Contracts from the contractor's and the federal Contracting Officer's perspective. Indirect costs and cost allocation bases. Methods utilized by the federal government to establish estimates of fair and competitive prices for goods and services.

PAD 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PAD 6041 Public Service Ethics
3 sh (may not be repeated for credit)
Focuses on ethical dilemmas and concerns faced by public managers arising from their exercise of administrative discretionary power. Explores contemporary public service ethical dilemmas by examining teleological and deontological schools of thought applied to case studies and ethics literature. Provides maps and tools to make moral experiences more explicit and consistent.

PAD 6053 Public Administration Professional
3 sh (may not be repeated for credit)
Scope and nature of field of public administration; development of public administration; politics of bureaucracy; dynamics of policy making and implementation.

PAD 6055 Directed Study
1-12 sh (may be repeated for credit)

PAD 6061 Public Administration Research Methods
3 sh (may not be repeated for credit)
Basic ideas of scientific research and how it is used in public administration. Prepares the student as both a consumer and a potential producer of research.

PAD 6137 Project Leadership and Administration
3 sh (may not be repeated for credit)
Conceptualizing and developing project plans incorporating realistic problems to solve, resources, execution strategies, criteria for successful completion, and assessment strategies. Regulation mechanisms such as appropriate goal setting, managing timelines, developing flexible back-up plans, identification of individual and group processes. Focuses on the need for team skills, the responsibility of team members, managing conflict, problem solving, team member assessment. Cases will be examined, multiple projects planned individually and in teams, and various planning models will be examined. Pert and Gantt charting will be covered.

PAD 6227 Public Budgeting
3 sh (may not be repeated for credit)
Detailed study of various budgeting systems and the political processes and environment that impact upon them. Extensive practical work in budget preparation.

PAD 6275 Political Economy of Public Administration
3 sh (may not be repeated for credit)
Consideration of the American political economy including: markets, politics and democracy; market failure and bureaucratic failure; relationships between government and business; public choice theory; privatization and contracting out.

PAD 6335 Strategic Management for Public and Nonprofit Organizations
3 sh (may not be repeated for credit)
An examination of the rationale and methods of strategic management applied to the planning processes of public and nonprofit organizations.

PAD 6417 Public Service Human Resource Management
3 sh (may not be repeated for credit)
An examination of the theories, practices and issues central to contemporary human resource management in public service and nonprofit organizations. This course focuses on leadership issues in public service HRM.

PAD 6425 Public Service Conflict Management and Resolution
3 sh (may not be repeated for credit)
Focuses on managing public disputes and emphasizes the significance of praxis. Explores constructive alternative dispute resolution (ADR) processes and procedures to legalistic, adversarial methods of dispute resolution in the public and nonprofit sectors. Knowledge and skills developed are those needed to analyze complex conflict and dispute situations, shape appropriate processes to involve the right parties, constructively negotiate settlements, select mediators and facilitators, and design dispute resolution programs. Emphasizes conflict management and resolution leadership.

PAD 6706 Public Administration Research Methods
3 sh (may not be repeated for credit)
Basic ideas of scientific research and how it is used in public administration. Prepares the student as both a consumer and a potential producer of research.
PHC 4109 Scientific Basis of Public Health
3 sh (may not be repeated for credit)
An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling. Offered concurrently with PHC 5123; graduate students will be assigned additional work.

PHC 4140 Public Health Planning and Analysis
3 sh (may not be repeated for credit)
This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public's health. The course is also intended to simulate student interest in other public health courses and program offerings. Graduate students will be assigned additional work.

PHC 4340 Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)
An online-multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling. Offered concurrently with PHC 5356; graduate students will be assigned additional work.

PHC 4341 Fundamentals of Occupational Safety and Health
3 sh (may not be repeated for credit)
Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 5355; graduate students will be assigned additional work.

PHC 4363 Occupational Safety and Health in the Health Care Environment
3 sh (may not be repeated for credit)
A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in health care, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Permission is required. Offered concurrently with PHC 5351; graduate students will be assigned additional work.

PHC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
PHC 5050 Biostatistics for Public Health  
3 sh (may not be repeated for credit)  
This is a second course in statistics for students in the Public Health and Allied Health. The topics include descriptive statistics, probability, standard probability distributions, sampling distributions, point and confidence interval estimation, hypothesis testing, power and same size estimation, one and two-sample parametric and non-parametric methods for analyzing continuous or discrete data, simple linear regression, logistic regression and other multivariate methods. The SAS statistical software package will be taught in this class for data management statistical analysis and power calculations. This is a fully online course with its own office hours and discussions. STA 2023 or equivalent is a pre-requisite for this course (see UWF Catalog). It is important to have a good understanding of inferential statistics, such as confidence intervals and test of hypotheses (for two samples).

PHC 5102 Public Health  
3 sh (may not be repeated for credit)  
This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public's health. The course is also intended to stimulate student interest in other public health courses and program offerings.

PHC 5108 Public Health Planning and Analysis  
3 sh (may not be repeated for credit)  
An introduction to geographic information systems (GIS) in healthcare and public health data analysis in the health sciences. This online course covers basic GIS skills through homework and case studies. It is a required course in the proposed Public Health major in the Bachelor of Science in Health Sciences degree program and the undergraduate Medical Informatic Certificate Program.

PHC 5123 Scientific Basis of Public Health  
3 sh (may not be repeated for credit)  
An overview of scientific principles of public health and their application to public health problems with significant state, national and international impact. It is recommended that students have at least one semester of a college science such as, biology or a comparable course before enrolling. Offered concurrently with PHC 4109 Scientific Basis of Public Health; graduate students will be assigned additional work.

PHC 5355 Fundamentals of Occupational Safety and Health  
3 sh (may not be repeated for credit)  
Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 4341; graduate students will be assigned additional work.

PHC 5356 Fundamentals of Industrial Hygiene  
3 sh (may not be repeated for credit)  
An on-line multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 4340; graduate students will be assigned additional work.

PHC 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
PHC 6000 Epidemiology for Public Health Professionals  
3 sh (may not be repeated for credit)  
To enable the student to understand epidemiology as a discipline and how epidemiology, as the basic science of public health, provides information for disease prevention and treatment.

PHC 6005 Disease Transmission in the Urban Environment  
3 sh (may not be repeated for credit)  
Focuses on disease transmission in the urban community and how interaction between human behaviors and environmental changes contribute to the spread of disease in urban areas in developed and developing countries.

PHC 6015 Epidemiological Study Design and Statistical Methods  
3 sh (may not be repeated for credit)  
Experimental, quasi-experimental, observational, survey, surveillance, and qualitative study designs will be reviewed. Methods for reliable and valid data collection and analysis will be covered. An overview of statistical methods for the analysis of public health data will be provided.

PHC 6150 Public Health Policy  
3 sh (may not be repeated for credit)  
The course explores general principles of planning, management, and evaluation of health care programs, policies and interventions implemented by public and private organizations. The basic conceptual frameworks underlying healthcare decision making and assessment of the financing, organization, outcomes and delivery of healthcare services are presented.
PHC 6194 GIS Applications in Public Health
3 sh (may not be repeated for credit)
An online course presenting an overview of geographic information systems for the analysis of public health data. Course imbeds learning how to use GIS software in the context of carrying out projects for visualizing and analyzing health-related data. Part of the Master of Public Health degree program.

PHC 6196 Computer Applications in Public Health
3 sh (may not be repeated for credit)
Provides an overview of various computer applications in public health and introduces modern software systems for analyzing health-related data. Fundamentals of data collection, statistical analysis, interpretation, and reporting results are covered. Technology-based implications for legal and ethical issues are also addressed (including documentation, security, and regulatory requirements). Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching; Training in a health care-related field at the Associate's or Bachelor's level is required. Material and Supply Fee will be assessed.

PHC 6251 Disease Surveillance and Monitoring
3 sh (may not be repeated for credit)
Disease surveillance and monitoring is the systematic collection, analysis, interpretation, and dissemination of data for use in prioritizing, planning, implementing, and evaluating health programs, activities and practices in the United States as well as in other developed and developing countries. Will focus on these fundamental processes and procedures which are utilized to investigate and track infectious and communicable diseases as well as non-infectious chronic diseases.

PHC 6300 Environmental Health
3 sh (may not be repeated for credit)
Students will be given an overview of the chemical, physical, and biological hazards present in our living and working environment and their effects on human health. Credit may not be received in both PHC 6300 and PHC 6018.

PHC 6309 Environmental Health in the Urban Community
3 sh (may not be repeated for credit)
Today, a majority of people live in cities and by 2050 over 75% of the world's population will be urban dwellers. Will provide an overview of the major environmental health issues facing urban areas and their inhabitants. Covers the physical, chemical, and biological hazards present in urban areas and their effects on human health. Credit may not be received in both PHC 6309 and PHC 6415.

PHC 6310 Environmental Toxicology
3 sh (may not be repeated for credit)
Environmental toxicology is the study of the effects of toxic substances on health and the environment. The student will recognize that human survival depends upon the well-being of other species and upon the availability of clean air, water, and food; and anthropogenic, as well as naturally occurring, chemicals can have detrimental effects on living organisms and ecological processes. Concepts to be covered include occurrence of toxicants, damage process and action of toxicants, factors affecting xenobiotic action, defense responses to toxicants, and others. Will also examine chemicals of environmental interest and how they are tested and regulated. Case studies and special topics will be examined.

PHC 6347 Aerospace and Occupational Toxicology
3 sh (may not be repeated for credit)
Part of the MPH program for military residents in Aerospace Medicine.

PHC 6360 Accident Investigation and Risk Management
3 sh (may not be repeated for credit)
Accident Investigation & Risk Management includes an aerospace safety overview, biomechanics of impact, restraint systems, crew protection, and crew escape concepts, aviation and space vehicle crashworthiness, aerospace injury mechanisms, conduct of an accident investigation, forensic concepts, legal issues, and promoting prevention strategies to avoid future accidents. Students in MPH degree program, and need special permission from instructor.

PHC 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHC 6946 Internship in Public Health
3 sh (may be repeated for up to 6 sh of credit)
An internship in a public health agency or setting. Under supervision by an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor, students will work on a problem related to management, development or administration of a program in public health or related to research in public health. A student may only request a waiver for up to 3 hours of the internship credit. A written report on the internship experience is required and the report must be presented before a committee of MPH faculty. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

PUBLIC POLICY Courses

PUP 4004 Public Policy
3 sh (may not be repeated for credit)
Study of how public policy is made, especially at the national level. Focus is on current issues and events including the role of the President, Congress, interest groups, bureaucracy and the public. Extensive use of current news sources in the print, television, and internet media.

PUP 4044 Analytic Techniques for Public Policy
3 sh (may not be repeated for credit)
Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 5045; graduate students will be assigned additional work.

PUP 4244 Natural Resource Policy
3 sh (may not be repeated for credit)
The history of natural resource and environmental policy in the United States and the institutions and processes of American natural resource and environmental policy making. Addresses the ongoing transformations in these broader institutions and processes and considers their linkage to the formulation of public policy as it relates distinctly to natural resources and the natural environment.

PUP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
PUP 5045 Analytic Techniques for Public Policy Analysis
3 sh (may not be repeated for credit)
Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 4044; graduate students will be assigned additional work.

PUP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PUBLIC RELATIONS Courses

PUR 3000 Principles of Public Relations
3 sh (may not be repeated for credit)
Increases understanding of the theory and practice of public relations, functions in organizations, and role in society. Is the foundation course for all other courses in public relations.

PUR 3100 Writing for Public Relations
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Develops professional-level writing skills expected of beginning public relations practitioners. Students practice writing for different audiences and media, such as preparing memos, letters, new releases, crisis communication plans, features, media kits, speeches and newsletters.

PUR 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PUR 4203 Public Relations Law and Ethics
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000
The code of ethics and practice in public relations along with an analysis of ethical issues and trends. Specific legal issues such as privacy, defamation, copyright, and new technology will be covered.

PUR 4400 Crisis Public Relations
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000
Examines crisis public relations planning, preparation, and execution. Focus is on assessment of risk, types of crises, role of and interaction with the media and other publics. Cases are examined to apply what is learned to examples of actual organizational crises. An "ask-the-expert" discussion series presents crisis communication as it relates to corporate, not-for-profit, education, and national-level government public relations.

PUR 4407 Managing Media Relations
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000
The ability to communicate effectively with the media on behalf of an organization is an essential skill for public relations professionals. Techniques and guidelines are provided for the role of organizational media relations manager with emphasis on the spokesperson. An overview of media needs, including communication planning, tips and techniques, and common pitfalls of organizational media relations programs. A considerable portion of the course requires students to participate as spokespersons in various scenario-based, video-tapped exercises.

PUR 4600 Communication Management
3 sh (may not be repeated for credit)
Prerequisite: PUR 3100
Capstone course for public relations and advertising majors. Emphasis on case study analysis and the management of integrated communication programs. Senior status required.

PUR 4800 Communication Research
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
Primary and secondary research methods useful to qualitative and quantitative communication research, applied communication inquiry, and integrated public relations/advertising communication campaigns. Organizational Communication majors are not required to fulfill the prerequisites.

PUR 4801 Public Relations Campaigns
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000 AND PUR 3100
A capstone course designed for graduating seniors, focusing on applying communication and public relations research and theory for a real client. Provides a thorough experience in conducting public relations and integrated communications campaigns and in preparing communication materials. Working in teams, students prepare and conduct the research, planning, implementation and evaluation of an actual campaign for a client. An advanced course requiring full understanding of public relations theory, writing, techniques and research methods. Permission is required. Credit may not be received in both PUR 4801 and PUR 4802.

PUR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PUR 4930 Current Issues and Trends in Public Relations
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000 AND PUR 3100
Focuses on a range of current issues facing the public relations profession from a theoretical and practical perspective. Exploration of selected topics such as emerging trends in the use of technology, diversity and multiculturalism, increased use of social media, and environmental issues impacting the organization. Senior status within the PR major required.

PUR 6408 Emerging Topics in Public Affairs
1.5 sh (may not be repeated for credit)
Examines the complex communication relationships between and among businesses, nonprofit organizations, government agencies, and the media. Focuses on the strategic communication applications in each of these areas.

PUR 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

QUANT METHODS IN BUS. Courses

QMB 6305 Quantitative Methods for Business
3 sh (may not be repeated for credit)
QMB 6305 is a prerequisite for MAR 6815, ECP 6705 and MAN 6511. Provides students with quantitative skills that are required to make business decisions. These skills involve using statistical, forecasting and estimation techniques. Students are expected to use the subject matter for problem sets and exams.
RADIO/TELEVISION Courses

RTV 3200 Television Production
3 sh (may not be repeated for credit)
Studio operations and equipment; theoretical and technical aspects of television production. Credit may not be received in both RTV 3200 and RTV 3200C.

RTV 3210 Radio Production
3 sh (may not be repeated for credit)
Introduction to the tools and techniques of audio production with emphasis on the practical application of theoretical concepts. Credit may not be received in RTV 3210 and either RTV 3210C or RTV 3240C.

RTV 3301 Broadcast Journalism
3 sh (may not be repeated for credit)
Principles and techniques of radio and television news operation. Credit may not be received in both RTV 3301 and RTV 3304.

RTV 3320 Electronic Field Production
3 sh (may not be repeated for credit)
Prerequisite: RTV 3200
Principles and techniques of basic electronic field production for video, film, CD-ROM, and the Internet. Credit may not be received in both RTV 3320 and RTV 3320C.

RTV 3400 History of Television
3 sh (may not be repeated for credit)
Examines the entire television industry from its inception to present day and its social, economic and financial ramifications on societies, especially their inter-relations. The course will also review, compare and contrast both the domestic and international television industries with regard to technical applications and advances, programming, production, and developmental theory and where the industry may be headed.

RTV 3700 Broadcast Management and Regulation
3 sh (may not be repeated for credit)
Management issues in the broadcast industry and governmental regulations that apply to that industry.

RTV 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: RTV 3200 AND RTV 3320 AND (JOU 2100 OR FIL 4102)
Experience in production of a weekly television news program telecast to the local community.

RTV 4221 Advanced Television Production
3 sh (may not be repeated for credit)
Prerequisite: RTV 3200 AND RTV 3320
Applies skills from basic television production and electronic field production in non-news production formats for broadcast on WUWF-TV Channel 4. Production formats include, but are not limited to: interview programs, musical productions, remote event coverage, dramatic anthology, all in either live or taped settings. Will be structured as an actual job. Students will participate in every production setting over the course of a semester in every capacity.

RTV 4323 Documentary Television Practicum
3 sh (may not be repeated for credit)
Prerequisite: RTV 3200 AND RTV 3320
Introduces, defines, and exposes the student through hands-on approach to documentary style television productions by exploring the six foundational styles: Poetic, Expository, Observational, Participatory, Reflexive, and Performative.

RTV 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

RTV 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

READING Courses

REA 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

READING EDUCATION Courses

RED 3310 Literacy Instruction for the Intermediate Learner
3 sh (may not be repeated for credit)
Materials and methods for teaching basic reading and related study skills; emphasis on teaching mastery of decoding skills, conducting guided reading activities, utilizing a wide variety of reading materials in the classroom and relating basic reading skills to content area instruction; includes observation / participation in school settings.

RED 3324 Reading/ESOL Methods and Instruction
3 sh (may not be repeated for credit)
Theory and methods for teaching reading at the middle and secondary school level; emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading and integrating reading and study skills into content area instruction across the middle and secondary school curriculum.

RED 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

RED 4542C Assessment and Differentiated Instruction in Reading
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314 AND RED 3310
Prepares the pre-service teacher in the area of individualized reading and language arts assessment. Individualizing instruction in the areas of language arts (speaking, listening, reading, and written composition) are major components.

RED 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

RED 5515 Classroom Reading Assessments
3 sh (may not be repeated for credit)
An exploration into the theories and appropriate assessment practices by classroom teachers.

RED 5657 Foundations of Reading Theory and Language Cognition
3 sh (may not be repeated for credit)
Provides the student with substantive knowledge of reading theory and language structure and function. Addresses the theoretical foundations for each of the five major components of the reading process. Permission is required.

RED 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
RED 6060 Foundations of Middle and Secondary Literacy
3 sh (may not be repeated for credit)
Emphasizes reading theory and instruction in the middle and secondary grades based on research and classroom practice. Students will examine how particular theories of literacy impact the instructional practices used when teaching reading and writing.

RED 6116 Foundations of Early Literacy
3 sh (may not be repeated for credit)
Emphasizes reading theory and instruction for early and beginning literacy. Students will examine how particular theories of literacy impact instructional practices used when teaching reading and writing in the Pre K - 5 classroom.

RED 6161 Reading Across the Curriculum
3 sh (may not be repeated for credit)
Features techniques and activities for assessing needs and teaching comprehension, vocabulary, and study skills in content areas. Integrates theory with practice and is designed for teachers of content area subjects and reading teachers. Prepares teachers to make instructional decisions based on sound theory, reason, applied knowledge and learner needs.

RED 6240 Differentiating Instruction
3 sh (may not be repeated for credit)
Explores differentiating instruction to meet the needs of all learners and teaches how to prevent or remediate reading difficulties. The focus will be on the interpretation of reading assessment and the implementation of research based instructional practices.

RED 6546 Identifying and Preventing Reading Difficulties
3 sh (may not be repeated for credit)
Prerequisite: EDF 6460
Study and clinical experience to develop competence in determining causes and degrees of reading disabilities, recommending specific corrective or remedial instruction to meet specific needs and preparing case studies.

RED 6658 Foundations and Applications of Differentiated Instruction
3 sh (may not be repeated for credit)
Issues related to differentiated reading instruction. Discusses knowledge and skills concerning differentiated instructional theory, classroom applications, and evaluation techniques used in differentiated instruction. This course meets the Florida Reading Endorsement criteria for competencies 4 and 5.

RED 6747 Research and Trends in Reading
3 sh (may not be repeated for credit)
Review of significant research in reading, introduction to techniques and critical analysis of reading research, review and comparison of trends in development of materials, approaches and reading programs.

RED 6866 Practicum in the Clinical Teaching of Reading
3 sh (may not be repeated for credit)
Prerequisite: RED 6240
Designed to provide a supervised clinical experience in reading assessment and tutoring. Students will conduct a thorough diagnostic screening and provide one-to-one tutoring for a struggling reader.

RED 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

RED 6911 Action Research: Reading
3 sh (may not be repeated for credit)
Prerequisite: RED 6546
An in-depth exploration of the major components related to reading instruction. Includes an action research project. Students will identify a classroom-based reading issue, review the related literature, design and implement an action plan, evaluate, and report the results.

RED 6940 Reading Practicum
3 sh (may not be repeated for credit)
Practical experience in increasing student reading performance with the utilization of appropriate strategies and materials. Emphasizes assessment based instruction for individual and groups of students to prevent, identify, and remediate reading difficulties.

RED 7247 The Organization and Administration of Reading Programs
3 sh (may not be repeated for credit)
Explores the role of the reading supervisor in organizing and implementing reading programs from the pre-elementary through the college level.

REAL ESTATE Courses
REE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

RELIGION Courses
REL 1300 World Religions
3 sh (may not be repeated for credit)
Broad understanding of the major religious traditions. May include Judaism, Christianity, Hinduism, Buddhism, Islam and others. Comparative study of similarities and differences among these traditions.

REL 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

REL 3142 New Perspectives on the Religious Self
3 sh (may not be repeated for credit)
Focus on selected understandings of the nature of the self as a religious being. Various models of the self will be examined.

REL 3145 Women and Religion
3 sh (may not be repeated for credit)
An examination of the complex relationships that exist between women and religion. The roles and status of women in Indigenous Traditions, Hinduism, Buddhism, Judaism, Christianity, and Islam with special attention paid to fundamentalist forms of religion. The methodology is both comparative and cross-cultural. An important feminist value is to privilege the "experiences of others." To that end, we will hear the voices of women themselves. Beginning with the feminist challenge to male, disembodied, and immutable images of the divine, we will discover how religion both limits and empowers women. Meets Multicultural Requirement. Gordon Rule course (Writing).

REL 3158 Religious Experience
3 sh (may not be repeated for credit)
Religious experiences and phenomena from the standpoint of particular approaches in psychology and religion. Such topics as human suffering, wholeness, and mystical awareness will be discussed using the thought of Becker, Keen, Freud and others. (Gordon Rule Course: Wrtg).
REL 3213 Studies in Hebrew Scriptures/Old Testament
3 sh (may not be repeated for credit)
Analysis of literature of ancient Israel, interrelation of faith and history, evolution of ethical monotheism from primitive beginnings to oracles of prophets. (Gordon Rule Course: Wrtg).
REL 3243 Studies in the New Testament
3 sh (may not be repeated for credit)
Exegetical study of literature of the early Christian community with emphasis on life and teaching of Jesus and letters of Paul from variety of theological perspectives. (Gordon Rule Course: Wrtg).
REL 3310 Philosophies of the East
3 sh (may not be repeated for credit)
REL 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
REL 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.
REL 4420 Contemporary Theology
3 sh (may not be repeated for credit)
Types of theology: fundamentalism, liberalism and neo-orthodoxy. Current trends: religious atheism (Nietzsche, Altizer), secular theology (Bonhoeffer, Cox), process theology (Whitehead, Chardin), existential theology (Tillich, Bultmann), personalism (Bertocci, DeWolff), liberation theology (Gutierrez, Boff).
REL 4441 Current Religious Issues
3 sh (may not be repeated for credit)
Significant personal and social concerns viewed from religious perspectives: race relations, medical practices, sexuality, war and terrorism, ecological crisis and non-Western religions.
REL 4592 Development of Christian Thought
3 sh (may not be repeated for credit)
Beginning with the early Christian communities in Rome and Jerusalem, the course explores the development of the Christian faith and thought with an emphasis on the relationship between philosophy and theology. The impact of cultural and social-political changes over the centuries and how they affected life in the Christian communities are examined. Meets Multicultural Requirement.
REL 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
REL 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SCIENCE EDUCATION Courses
SCE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SCE 4310 Teaching Science in the Elementary School
3 sh (may not be repeated for credit)
Processes of science requisite to teaching elementary school science; emphasis upon structure and objectives of school science programs, methods of instruction assessment, and experimental programs. Material and supply fee will be assessed.
SCE 4320 Teaching Science in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Methodology requisite to the effective teaching of science at the middle school level; emphasis on methods and objectives of the middle school science program, use of lab experiences with middle school students, computer strategies and software evaluation, evaluating student progress, current research in science education, and practice teaching experiences; includes participation in school setting. Admitted to Teacher Education and permission is required. Material and Supply Fee will be assessed.
SCE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SCE 5445 Physical Science in Motion: Classroom Applications
3 sh (may not be repeated for credit)
Participants use simple software simulations. Physical science activities focus on relationships between gravity, friction, aerodynamic principles and energy. Three free simple-to-use software programs from NASA Glenn are featured and: 1) control the shape, size, and inclination of the airfoil and atmospheric conditions in which you are "flying"; 2) teach aerodynamics by controlling the conditions of a big league baseball pitch (speed, spin, etc.); and 3) model the design and testing of jet engines, flight conditions, and engine size. Applications to "force and motion" are another focus. The software and material will teach concepts simply, visually and in an exciting manner.
SCE 5805 Electricity and Magnetism
3 sh (may not be repeated for credit)
Explores electricity and magnetism by addressing basic concepts, fundamental misconceptions, and the intimate relationship between magnetism and electricity. Topics include electrostatic charging, charge separation and electric pressure, current electricity and the circuits through which it moves, Ohm's Law, schematic diagrams, and current flows from wall outlets. Permission is required.
SCE 5806 Transfer of Energy
3 sh (may not be repeated for credit)
The National Science Education Standards' approach to energy and its transformation between forms. Topics include common misconceptions in the types and characteristics of energy forms, transformation of energy fundamentals of heat, the Sun and an interdisciplinary approach to light energy, and everyday energy transformation devices such as car engines and air conditioners. Permission is required.
SCE 5807 Forces and Motion
3 sh (may not be repeated for credit)
Engages participants in reviewing the history and development of concepts associated with why things move and how they move in the mechanical world. Simple demonstrations and hands-on inquiry activities connect each week's content area with real-world examples.
SCE 5836 Earth in the Solar System
3 sh (may not be repeated for credit)
Examines the Earth's "place in space" and its relationship to the Sun and other planets of the solar system. Is cross-disciplinary when appropriate and is especially designed for secondary school teachers who are currently teaching or who are preparing to teach courses in middle and high school Earth science. Combines technical explanations of astronomical processes and phenomena with an explanation of the physical composition of the other planets, moons, and celestial objects found in our solar system. The original content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics presented during the course.

SCE 5837 Structure of the Earth
3 sh (may not be repeated for credit)
Examines the physical composition of our planet and the forces both internal and external that continuously shape it. Is cross-disciplinary when appropriate and especially designed for secondary school teachers currently teaching or preparing to teach courses in middle and high school Earth sciences. Combines technical explanations of geologic processes and phenomena with an explanation of the physical composition of matter, minerals, and rock types. The original content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics. Credit may not be received in both SCE 5837 and SCE 5835.

SCE 5842 Aquatic Ecology for Teachers
3 sh (may not be repeated for credit)
Aquatic Ecosystems engages participants in reviewing and comparing aquatic environments, investigating the dynamics of ecological interactions, and addressing the impact of human activity. Each week's content addresses main science concepts, illustrative examples, inquiry activity ideas, resource extensions, opportunities to learn more, and connections to teaching and learning in grades 4-9 science classrooms.

SCE 5853 Chemistry Through Inquiry
3 sh (may not be repeated for credit)
The course focuses on the National Science Education content standards for physical science and "science as inquiry" for K-4 and 5-8. As teachers do hands-on science investigations, read science background, and participate in discussion they will enhance their own scientific content knowledge and develop an inquiry-based approach to science teaching.

SCE 6017 Science Instruction in the Elementary School
3 sh (may not be repeated for credit)
Theory and practice of elementary school science education, including history, philosophy, research, curricula, and instructional strategies. Demonstration teaching, individualized instruction and action research. Credit may not be received for both SCE 6017 and SCE 6117.

SCE 6265 Science Instruction in the Middle and Secondary School
3 sh (may not be repeated for credit)
Prerequisite: EDM 6944 OR ESE 6944
Assists middle and secondary level teachers to develop theoretical understanding and skills necessary to teach in a manner consistent with current reform efforts in science education. Focuses on three components of understanding science teaching and learning: 1) the nature of science, its history and philosophy, 2) how students learn science, and 3) the role of the teacher in creating a safe learning environment. Admission to Teacher Education and permission is required. Credit may not be received in both SCE 6265 and SCE 6625. Material and Supply Fee will be assessed.

SCE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SCE 8980 Ed.D. Dissertation in Biological Science
1-18 sh (may be repeated for up to 36 sh of credit)
Major independent research in biological science education designed especially for candidates in the Ed.D. curriculum and instruction program with specialization in science. Dissertation will reflect intensive research produced by the student and collaboratively developed with the student's graduate committee. Graded on satisfactory / unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required. Permission is required.

SOCIAL ORGANIZATIONS Courses

SYO 3100 The Family
3 sh (may not be repeated for credit)
Social and psychological aspects of interpersonal relationships within the family. Emphasis on modern problems of family.

SYO 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 4530 Inequality in America
3 sh (may not be repeated for credit)
Social classes and class relations, changing forms and patterns of inequality in American society.

SYO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOCIAL PROCESSES Courses

SYP 3630 Popular Culture
3 sh (may not be repeated for credit)
Analysis of the social foundations and cultural ramifications of mass culture with primary reference to American society.

SYP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOCIAL PSYCHOLOGY Courses

SOP 3004 Social Psychology
3 sh (may not be repeated for credit)
Survey of theory, method, and research results in areas of social psychology, such as attitude formation and change, social perception/cognition, impression formation, social influence, interpersonal attraction and relationships, aggression and pro-social behavior, and group dynamics. Application in areas such as work or health behavior, legal settings, or environmental psychology may also be included.

SOP 3730 Psychology, Culture, and Society
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
The study of social processes within a cultural context. Topics include non-verbal behavior, the construction of social reality, communication, personal relationships, social influence, discrimination and prejudice, group dynamics, organizational culture and behavior, implications for health and wellness.

SOP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOP 4702 Psychology and Gender
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Addresses the construction of gender as a psychological construct. The psychological construct of gender is considered from biological, social, and individual perspectives. Lecture, discussion, readings, and participative learning methods are used.

SOP 5609 Current Issues in Industrial-Organizational Psychology
1 sh (may be repeated for up to 2 sh of credit)
Topics of current interest in industrial-organizational psychology. May include panel discussions, site visits to local organizations, guest speakers, individual student research presentations, or discussions led by the professor. Industrial-organizational psychology students must enroll for two consecutive terms.

SOP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOP 6069 Advanced Social Psychology
3 sh (may not be repeated for credit)
Contribution of social psychology to understanding of human behavior: emphasis is on theory and research in major areas such as attitude, perception and attribution, attraction, altruism, group behavior, etc.

SOP 6668 Organizational Change and Development
3 sh (may not be repeated for credit)
Prerequisite: INP 6397 AND SOP 6669
Organizational development: change agency, role of self in O.D., change theory, feedback methodology, relationship building, team building and quality, Lab learning methodology. Expanded emphasis on field work and application can follow as MAN 6943. May not be taken for credit by students having credit for MAN 6285.

SOP 6669 Advanced Organizational Psychology
3 sh (may not be repeated for credit)
Seminar reviewing much of the recent research literature in areas of organizational psychology, including leadership, motivation, job performance, job satisfaction, role behavior in work settings and communications.

SOP 6776 Human Sexuality and Sex Therapy
3 sh (may not be repeated for credit)
Major emphasis is given to research regarding a broad range of sexual dysfunctions and analyses of specific therapeutic interventions. Various styles of sexual expression are also examined in terms of their social and psychological implications. Assumes prior knowledge of counseling theory and practice.

SOP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOCIAL STUDIES EDUCATION Courses

SSE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SSE 4113 Social Studies for Elementary Teachers
3 sh (may not be repeated for credit)
Instructional methods and materials for teaching a contemporary program in social studies in the elementary school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies.

SSE 4324 Teaching Social Studies in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Instructional methods and materials for teaching a contemporary program in the social studies, including classroom management, citizenship education, global education and current trends and approaches to teaching social studies; includes observation/participation in middle and secondary school settings.

SSE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SSE 5045 Teaching Social Studies for the Intermediate Learner
3 sh (may not be repeated for credit)
Instructional methods and materials for teaching a contemporary program in social studies in middle and high school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies. Permission is required.

SSE 6326 Teaching Social Studies in Middle and Secondary Level Education
3 sh (may not be repeated for credit)
Prerequisite: EDM 6944 OR ESE 6944
Analysis and evaluation of new programs and practices in teaching middle and secondary school social studies in terms of rationale, structure of disciplines and teaching strategy models; development, implementation and demonstration of creative teaching techniques designed to improve pupils' and teachers' understandings of and attitudes toward the study of social studies. Admission to Teacher Education and permission is required.

SSE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SSE 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOCIAL WORK Courses

SOW 2192 Understanding Relationships in the 21st Century
3 sh (may not be repeated for credit)
Human relationships with a focus on the interrelatedness and effects of underlying theoretical principles as they relate to individual, family and group interactions. (General Studies: SS / BEH).

SOW 3103 Human Behavior in Social Environment
3 sh (may not be repeated for credit)
Prerequisite: BSC 1005 OR BSC 1085 OR BSC 1086
Social personality and cognitive development, normal and abnormal, normative and non-normative crisis and gender issues with an emphasis on cultural diversity. Importance of social work intervention and treatment with individual, family, and community.

SOW 3113 Human Behavior in Organizations and Communities
3 sh (may not be repeated for credit)
Introduces the future practitioner to the concept of change agent within organizations, institutions, and communities. Prepares the student with academic concepts on community organization as a prelude to the practice course. Emphasis is placed on the student's ethical responsibilities to the client, organizational structure of human service agencies and the elements common to them. Students will understand structural and organizational differences between profit and nonprofit agencies. Students will experience organizational obstacles to planned change. The dynamics of gender, class, race, ethnicity, and sexual orientation are examined in relationship to how they are played out within the organizational context.

SOW 3203 Introduction to the Field of Social Work
3 sh (may not be repeated for credit)
Survey of the social work profession from its roots to contemporary practice with a descriptive focus on its values, knowledge bases, skills, and fields of practice. Emphasis is on generalist social work and social policy structures which sustain society. Introduces the relationship of social problems to social policy and to social service delivery systems.

SOW 3313 Work With Individuals and Families
3 sh (may not be repeated for credit)
One of four practice courses designed to prepare the student for generalist social work. Emphasis is on the values, knowledge, and skills necessary for effective assessment and intervention on the micro level, and is reflected in several areas, including the worker / client relationship, assessment, strategies and implementation techniques, the social worker's use of self, the phases of the helping process, and evaluation. Using the systems approach, emphasis is placed on social, cultural familial, and environmental influences on the functioning of individuals and families. Permission is required.

SOW 3314 Case Management
3 sh (may not be repeated for credit)
Designed to help students develop a general overview of case management and how it is defined and practiced in a variety of settings, such as juvenile justice programs, mental health programs, and nonprofit community agencies.

SOW 3322 Work With Groups
3 sh (may not be repeated for credit)
One of a series of four courses designed to prepare a student for generalist social work practice. The student will acquire the knowledge base, values and skills necessary for working with groups at the beginning professional level. The focus will be on developing the knowledge base, values and practice skills needed to use the problem solving approach to work with diverse populations within various types of groups. Stages of groups and activities that can enhance the group process will be explored. Permission is required.

SOW 3350 Interviewing and Recording
3 sh (may not be repeated for credit)
Practice in interviewing techniques and in precise, descriptive, and accurate writing techniques for practitioners in social work, psychology, and other helping professions. (Gordon Rule Course: Wrtg).

SOW 3503 Introduction to Generalist Practice
3 sh (may not be repeated for credit)
Prerequisite: SOW 3203 AND SOW 3350
One of four practice courses designed to prepare the student for generalist social work. Through agency experience, classroom instruction, and introspective discussion, students develop self-awareness, beginning skills and knowledge, and a professional attitude. Students are introduced to a social agency setting, the varying needs and vulnerabilities of clients served, the problem solving process, and the development of basic knowledge and skills necessary in helping relationships with systems of various sizes. Restricted to social work majors. Permission is required.

SOW 3650 Introduction to Child Welfare
3 sh (may not be repeated for credit)
Prepares social workers and others to enter the field of child welfare with a better understanding of the history of this movement and the types of services and programs designed to assist children and families. Also introduces and provides information to any interested person regarding the social problems of children and the availability of services to children in need.

SOW 3783 Human Trafficking
3 sh (may not be repeated for credit)
The purpose of this course is to educate social work students on human trafficking and develop a framework for professional intervention. This course is designed to examine the human trafficking phenomenon of modern day slavery of men, women, and children. Course content will include the examination of domestic and international policy, the differences in labor and sexual trafficking, and the scope and prevalence of human trafficking as an international concern. The socio-political, cultural, and economic issues that contribute to the increased phenomenon of trafficking with women and children will be explored as well as the traumatic effects on victims, families, and the community. The social workers role in providing intervention and advocacy services will be explored.

SOW 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SOW 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SOW 4111 Adolescents At Risk
3 sh (may not be repeated for credit)
Explores environmental and societal factors that contribute to risky behaviors of adolescents such as substance use, delinquency, sexual activity, and violent behavior, and others. Characteristics of high risk and low risk youth are discussed including the relationship of these characteristics to adolescent development. Prevention, intervention, and treatment approaches are discussed.

SOW 4141 Social Aspects of Family Violence
3 sh (may not be repeated for credit)
Introduces basic concepts, principles, and methods for understanding and identifying family violence. Topics include an historical overview; the impact of domestic violence on the community and on the woman, children, and man involved; the identification of emotional, physical, and sexual aspects of abuse; safety planning and levels of lethality; an introduction to effective intervention.

SOW 4232 Analysis of Social Service Policy
3 sh (may not be repeated for credit)
Prerequisite: SOW 4403
Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills. Offered concurrently with SOW 5218; graduate students will be assigned additional work.

SOW 4233 Human Diversity and Social Justice
3 sh (may not be repeated for credit)
Prerequisite: SOW 4232 AND SOW 4403
Examines the impact of social, economic, and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political, and economic justice. Offered concurrently with SOW 5629; graduate students will be assigned additional work.

SOW 4242 Families and Family Treatment
3 sh (may not be repeated for credit)
Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 5243; graduate students will be assigned additional work.

SOW 4403 Social Work Research Foundations
3 sh (may not be repeated for credit)
Prerequisite: SOW 3350
An introduction to research methodology in the evaluation of social work practice and program evaluation.

SOW 4510 Social Work Field Instruction
1-9 sh (may not be repeated for credit)
Prerequisite: SOW 3103 AND SOW 3113 AND SOW 3203 AND SOW 3313 AND SOW 3322 AND SOW 3350 AND SOW 3503 AND SOW 4232 AND SOW 4403
Co-requisite: SOW 4522
Field education experience in social service agency with a qualified professional supervisor. A minimum of 400 hours is required. Restricted to social work majors. Graded on a satisfactory/unsatisfactory basis only. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required. Material and Supply Fee will be assessed.

SOW 4522 Senior Seminar
3 sh (may not be repeated for credit)
Prerequisite: SOW 3103 AND SOW 3113 AND SOW 3203 AND SOW 3313 AND SOW 3322 AND SOW 3350 AND SOW 3503 AND SOW 4232 AND SOW 4403
Co-requisite: SOW 4510
Designed to integrate previously learned beginning generalist practice concepts, values, knowledge, attitudes and skills with practice. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required.

SOW 4674 Social Issues and Intervention Strategies in Social Work Practice with Older Adults
3 sh (may not be repeated for credit)
Embraces an interdisciplinary approach to intervention strategies to eliminate or ameliorate problems/crises faced by aging clients. Demographics are addressed.

SOW 4679 Response to Disasters in the Community
3 sh (may not be repeated for credit)
The course is designed to provide the student with an understanding of disasters; man made and natural and their affect of the individual and community. Focus will be on preparation and response to disaster affected populations. Previous disaster responses will be critiqued in efforts to learn how to better prepare for future disasters. Basic human needs will be examined and how best a community can help to logistically provide for those needs. In addition, populations with special needs will be examined throughout all phases of the life cycle. Mental Health response will be addressed including cognitive/ emotional stages people experience following a disaster.

SOW 4700 Substance Abuse Prevention and Treatment: Special Issues
3 sh (may not be repeated for credit)
Historical, legal, ethical, and social issues relating to drug abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 5710; graduate students will be assigned additional work.
SOW 4740 Dimensions of Death and Dying: Special Issues
3 sh (may not be repeated for credit)
Assists the student, both personally and as a professional helping others, to approach death and dying with enhanced knowledge, sensitivity, and less dread and denial. Examines historical, social, legal, cultural, and interpersonal aspects of death and bereavement within the context of professional practice. Offered concurrently with SOW 5745; graduate students will be assigned additional work. Credit cannot be received for both SOW 4682 and SOW 4740.

SOW 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOW 5105 Human Behavior in the Social Environment I
3 sh (may not be repeated for credit)
Provides an understanding of social functioning throughout all phases of the life cycle by examining the interaction between the biological deterrents of growth and development and various systems of our social environment. Focus is on the interrelatedness and effects of individuals, families and groups and of genetic, emotional and societal systems and values that foster or impede social functioning.

SOW 5106 Human Behavior in the Social Environment II
3 sh (may not be repeated for credit)
Familiarizes students with the academic concepts of macro assessment and community organization through planned change processes. Emphasis is placed on the social worker's role as a change agent, strategies and models for community organizing, and ethical responsibility to the client, organization, community, and the profession.

SOW 5128 Cognitive Behavioral Therapy
3 sh (may not be repeated for credit)
Prerequisite: SOW 5305
This course focuses on cognitive behavioral therapy, clinical decision making, advanced clinical interventions, while building on a generalist approach to social work practice. The course utilizes the clinical-community concentration prerequisites and an understanding of normal development and psychopathology as a foundation for advanced practice. It examines ways in which cognitive behavioral theory and model of intervention with individuals, families and groups can be tailored to client needs. The course addresses work with clients across the life cycle who are experiencing a variety of problems and difficulties. Methods of enhancing adaptive functioning and resiliency through cognitive behavioral therapy are emphasized. Permission is required.

SOW 5149 Social Work Practice In The Military
3 sh (may not be repeated for credit)
A comprehensive and in depth examination of the practice of military social work. The course provides a historical context and a thorough review of the specific practice of social work in the U.S. military.

SOW 5218 Analysis of Social Service Policy
3 sh (may not be repeated for credit)
Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills. Offered concurrently with SOW 4232; graduate students will be assigned additional work.

SOW 5241 Advanced Child Welfare Practice
3 sh (may not be repeated for credit)
Elective course focusing on understanding child abuse and neglect that is designed to provide advanced direct practice (clinical) knowledge and skills necessary for working in public or private child welfare settings with multiple risk families, and in collaboration with multiple providers and systems. The course will address the historical perspective on child maltreatment, and the role of the family in today's society. Department Permission is required.

SOW 5243 Families and Family Treatment
3 sh (may not be repeated for credit)
Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 4242; graduate students will be assigned additional work.

SOW 5305 Generalist Practice I
3 sh (may not be repeated for credit)
First course in a two course sequence which covers generalist social work practice. Basic generalist practice skills with individuals, families, and groups. Basic communications and interviewing skills are introduced and practiced. Tasks and skills required in the beginning practice: preparation, engagement, first interviewing skills, and case documentation. The process of collecting relevant social, psychological, cultural, economic, and biological data from individuals, families, and groups and organizing and analyzing data for problem formulation. Historical and contemporary perspectives of the case management process are highlighted focusing on advocacy roles. Practice skills and the application of those skills through the use of interactive exercises and role plays.

SOW 5309 Prevention and Intervention Strategies for Children Ages 0-5 and Their Families
3 sh (may not be repeated for credit)
Generalist practice methods for children 0-5 and their families. An overview of developmental, psychological, sociological and legal issues. Strategies for prevention and intervention. Offered concurrently with SOW 4303; graduate students will be assigned additional work.

SOW 5324 Generalist Practice II
3 sh (may not be repeated for credit)
Introduces the knowledge base, values and skills necessary for working with groups at the beginning professional level. Develops the knowledge base, values, principles, and practice skills needed to work with diverse populations within various types of groups. Stages of groups and activities will be explored that can enhance the group process and its purpose towards achieving its objectives.

SOW 5356 Play Therapy: Theory and Techniques
3 sh (may not be repeated for credit)
Students will learn the theoretical underpinnings of play therapy and the techniques by which the theory is practiced. Permission is required.
SOW 5386 Occupational Social Work  
3 sh (may not be repeated for credit)  
An overview of Occupational Social Work for graduate-level students including historical trends and emerging issues. The course will address the scope of Occupational Social Work practice, including strategies for macro- and micro-levels of intervention. The needs of specific populations and will be examined. The core technologies of the Employee Assistance Program (EAP) practitioner and resources for professional development will be identified. Permission is required.

SOW 5404 Social Work Research Foundations  
3 sh (may not be repeated for credit)  
An introduction to research methodology in the evaluation of social work practice and program evaluation. Offered concurrently with SOW 4403; graduate students will be assigned additional work.

SOW 5532 Foundation Year Field Instruction and Integrative Seminar I  
3 sh (may not be repeated for credit)  
Integrates foundation curriculum social work course content and 400 hours field education experience in order for students to function as generalist social work practitioners. Issues related to social work values and ethics, diversity, social and economic justice, populations at risk, human behavior and the social environment, social welfare policy and services, practice and research are examined within the context of the student's field education experiences. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

SOW 5614 Domestic Violence and the Social Work Practice  
3 sh (may not be repeated for credit)  
An examination of the history and dynamics of intimate partner violence including a discussion of theories, various forms of domestic violence, its impact, consequences and factors that exacerbate violence. Prevention and intervention strategies will be discussed along with policies that influence this social problem. Throughout the course, the focus will be to learn effective strategies that empower each family member to recover and/or change positively. The consideration of social work values and ethics, as well as the concerns of disadvantaged groups will be stressed.

SOW 5629 Human Diversity and Social Justice  
3 sh (may not be repeated for credit)  
Examines the impact of social, economic and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political and economic justice. Offered concurrently with SOW 4233; graduate students will be assigned additional work.

SOW 5710 Substance Abuse Prevention and Treatment: Special Issues  
3 sh (may not be repeated for credit)  
Historical, legal, ethical, and social issues relating to substance abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 4700; graduate students will be assigned additional work.

SOW 5757 The History, Philosophy, and Theory of Social Work Practice  
3 sh (may not be repeated for credit)  
Introduces the student to the Social Work Profession and the history, philosophy, theory, and development of social work practice. Perspectives on social welfare, social work as a profession, and core concepts will be introduced. Content will cover aspects of social work practice including poverty, child welfare, criminal justice, health and mental health, homelessness, and aging.

SOW 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

SOW 6116 Evaluation and Treatment of Trauma-Related Conditions  
3 sh (may not be repeated for credit)  
In-depth examination into the impacts of trauma on individuals, couples, families, and communities. Specific attention is given to learning how to assess and treat individuals who have been exposed to recent or previous traumatic events. Using multiple case scenarios, participants will be introduced to empirically-supported interventions for treated Acute Stress Disorder and Post-Traumatic Stress Disorder. They will also learn about the impacts of these conditions on partner relationships and other family members. The course also outlines know efforts to foster resiliency among these individuals and families. Department Permission is required.

SOW 6125 Psychopathology for Social Work  
3 sh (may not be repeated for credit)  
Patterns of human behavior and psychosocial functioning commonly conceptualized as psychopathology. Addresses such concepts as function, mental health, mental illness, normality and abnormality. Prevalent categories of psychiatric disorders are considered as to their labeling process, differentiating characteristics, explanatory theories and relevance for social work practice.

SOW 6297 Ethical Decision Making in Social Work  
3 sh (may not be repeated for credit)  
Students will explore further the history of Social Work ethics and values and will address relevant ethical theoretical frameworks. Emphasis will be placed on students embracing professional standards of practice, legal requirements, and self-awareness regarding professional ethical behavior. Students will examine in-depth the ethical decision-making process. Department Permission is required.

SOW 6326 Social Work Intervention with Groups  
3 sh (may not be repeated for credit)  
The advanced social work practitioner is required to demonstrate group skills in a wide variety of practice situations. The focus of this course is on the design and implementation of group treatment services for at risk populations of varying ages, social situations and composition. Students will be afforded the opportunity to develop a clear sense of the scope, uses and skills of group work in the social work profession. Department Permission is required.
SOW 6345 Social Work Leadership, Management and Supervision
3 sh (may not be repeated for credit)
Introduction to the values, principles and functions that provide the foundation for effective leadership and management practice in the field of social work. Students will receive an overview of styles and skills used in social work leadership, management and supervision which are appropriate to both clinical and community social work practice settings. This course will provide students with values, principles and strategies for leading teams, problem-solving, and supporting multicultural and diverse staffing in social work agencies. Department Permission is required.

SOW 6366 Advanced Play Therapy Methods
3 sh (may not be repeated for credit)
Prerequisite: SOW 5356
This course will focus on the goals of group and filial play therapy. In group play therapy, topics include the role of the play therapist, selection of group members, planning/structuring of sessions, and developmentally responsive play and expressive arts activities. In filial play therapy, also known as Child Parent Relationship Therapy (CPRT), the focus is on intervention skills designed to improve parent-child relationships using a group parent-training format. Students will be expected to use play therapy kit created during SOW 5356. Department Permission is required.

SOW 6432 Evaluation of Social Work Practice
3 sh (may not be repeated for credit)
Practice evaluation using simple subject design and program evaluation that is grounded in social science and social work research literature. Particular attention will be paid to the ethical issues of conducting research, especially with oppressed or vulnerable populations.

SOW 6475 Applied Research
3 sh (may not be repeated for credit)
Students plan, design, and conduct a research project in conjunction with the student's field placement. Special emphasis is on the conduct and use of empirical research in applied settings.

SOW 6535 Advanced Year Field Instruction and Integrative Seminar I
3 sh (may not be repeated for credit)
Integrates theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Graded on a satisfactory/unsatisfactory basis only. Material and Supply Fee will be assessed.

SOW 6536 Advanced Year Field Instruction and Integrative Seminar II
3 sh (may not be repeated for credit)
This is the second of two advanced master's level field internship and integrative seminars. Assists social work graduate students in integrating theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Graded on a Satisfactory/Unsatisfactory basis only. Material and Supply Fee will be assessed.

SOW 6548 Advanced Seminar in Clinical Social Work Practice
3 sh (may not be repeated for credit)
Capstone course in clinical-community social work practice. Student analysis of practice with individuals, families, and group through a written and oral presentation of case material. Focus is on refinement of intervention skills relying on field practicum experience for integration of learning. Integration of knowledge from the Clinical Practice courses and Field Instruction. Students will prepare and present a case from their internship for oral presentation and demonstrate ability to organize and select appropriate treatment strategies for a specific client, family, or group. A broad range of field placements will provide diverse clients and a range of clinical issues. Students are expected to show evidence of critical thinking and self-awareness in written and oral presentations.

SOW 6609 Chronic Illness and Social Work
3 sh (may not be repeated for credit)
Exploration of chronic illness, including death, dying, life, and living, whether with respect to their own feelings, or that of clients with whom they might work, utilizing the systems perspective. We will focus on illness, care giving, the dying process, and grief and bereavement across the life span. In addition, we will consider the impact of gender, culture, religion, etc., on the topics. Furthermore, we will explore characteristics, special emphasis on resiliency, that allow us to survive, and, if fact, often thrive in the face of life’s traumas and tragic events, especially when provided with support and education. We will fulfill the goals and objectives of the course through the use of literature, videos, class discussion, presentations, guest speakers, assignments, and experiential activities. Department Permission is required.

SOW 6618 Clinical Practice I
3 sh (may not be repeated for credit)
Builds on the knowledge base of generalist social work practice. Emphasizes advanced assessment of clients across the life span, trauma assessment, and beginning evaluation of practice skills. Treatment planning with individuals, families, and groups is stressed. Building on the generalist practice base for analyzing and interpreting bio-psycho-socio-spiritual content, interpreting and implementing professional values and ethics, and utilizing the professional helping relationship. Introduces an advanced clinical practice base of clinical-community social work.

SOW 6619 Clinical Practice II
3 sh (may not be repeated for credit)
Clinical decision-making and advanced clinical interventions by building on a generalist approach to social work practice. Utilizes the clinical community concentration prerequisites to examine normal development and psychopathology as a foundation for advanced practice. Examines specific theories and models of intervention with individuals, families, and groups that can be tailored to client needs. Addresses work with clients across the life cycle with diverse issues. The impact of poverty, racism, sexism, and manifestations of institutionalized oppression upon clients and workers are addressed at an advanced level. Methods of enhancing adaptive functioning and resiliency are emphasized. Students will be expected to demonstrate clinical expertise, an understanding of social work ethics and values, incorporate client preferences, utilize critical thinking skills, and apply empirical evidence to practice decisions.
SOW 6626 Spiritually Sensitive Social Work Practice
3 sh (may not be repeated for credit)
Framework to assess and discuss spiritual and religious concepts in social work practice. Students will develop a spiritually sensitive knowledge base to respond competently and ethically with clients of all religious traditions and spiritual practices. Students will learn to incorporate spiritually sensitive social work practices with individuals, families, groups, and communities. Students will integrate and demonstrate competent assessment, including interviewing skills, necessary in spiritual dialogue in social work practice. Department Permission is required.

SOW 6656 Child and Adolescent Treatment
3 sh (may not be repeated for credit)
Familiarization with a range of child and adolescent psychological disorders typically seen in social work clinical practice. Emphasis will be placed on development, diagnostic issues, theoretical formulations, causes, treatment, and research findings related to each of these conditions. The course will utilize lecture, guest speakers, videos and classroom activities. Permission is required.

SOW 6678 Grief and Loss
3 sh (may not be repeated for credit)
Introduction to the current and historical perspectives of death, dying and bereavement. It will address experiences and responses to a variety of deaths including perinatal death, death of a child, death following a terminal illness, suicide, homicide, and military related death. The Hospice movement's history and goals will be part of the curriculum. Special attention will be given to how other cultures and religions view death and ethical dilemmas related to death. Department Permission is required.

SOW 6714 Addictions Treatment
3 sh (may not be repeated for credit)
Discussion of the major models and approaches to treatment of addictions used today, including Harm reduction model, Bio-psycho-social-spiritual model and other evidenced based treatment approaches. Specific treatment interventions from models will be discussed throughout. Department Permission is required.

SOW 6916 Mind/Body Practice and Positive Psychology
3 sh (may not be repeated for credit)
A focus on research from the last 25 years that has revolutionized our knowledge of brain function, its relation to overall coping, and specific practices that promote resilience and well-being. It will be an important contribution to the social work curriculum at the master's level because it revolves around a strengths perspective that social work has always embraced, as well as teaching the advanced practitioner specific skills that s/he can use to help clients in the process of improving their lives. The course will be richly multicultural and will also include ancient wisdom from the humanities that supports this new evidence-based field of mind-body interaction. Department Permission is required.

SOCIOLOGICAL ANALYSIS Courses

SYG 2000 Introduction to Sociology
3 sh (may not be repeated for credit)
Fundamental principles concerning social relationships, social interaction and social structure. (General Studies Course: SS / SOC).

SYG 2010 Current Social Problems
3 sh (may not be repeated for credit)
Major social issues affecting individuals in groups in modern industrial societies. Not open to students with Social Problems as lower division course. (General Studies Course: SS / SOC).

SYA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOCIOLOGY OF DEMOG/AREA Courses

SYD 3810 Introduction to Women's Studies
3 sh (may not be repeated for credit)
Examination of the economic, political, social and cultural positions of women in the past and now in American society. Also examines social roots of their self-concepts, values, beliefs and perceptions.

SYD 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD 4800 Sociology of Sex Roles
3 sh (may not be repeated for credit)
Changing sex roles in American society with particular attention to socialization and sex-differentiated roles in social institutions.

SYD 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SOCIOLOGY: GENERAL Courses

SYG 2000 Introduction to Sociology
3 sh (may not be repeated for credit)
Fundamental principles concerning social relationships, social interaction and social structure. (General Studies Course: SS / SOC).

SYG 2010 Current Social Problems
3 sh (may not be repeated for credit)
Major social issues affecting individuals in groups in modern industrial societies. Not open to students with Social Problems as lower division course. (General Studies Course: SS / SOC).

SYG 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SPANISH LANGUAGE Courses

SPN 1120C Spanish I
4 sh (may not be repeated for credit)
For students with no knowledge of Spanish or with less than two years of high school Spanish. Lays a foundation for speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 1121C Spanish II
4 sh (may not be repeated for credit)
Continuation of SPN 1120C. Continues development of skills in speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPN 2200 Intermediate Reading and Translation
3 sh (may not be repeated for credit)
For students who have previous experience in Spanish, but are not yet prepared for advanced work in the language.

SPN 2210 Intermediate Composition & Conversation
3 sh (may not be repeated for credit)
Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200.

SPN 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPN 3400 Advanced Stylistics
3 sh (may not be repeated for credit)
Increasing and improving language skills. Classes conducted in Spanish. Meets Multicultural requirement.

SPN 3410 Composition and Conversation
3 sh (may not be repeated for credit)
Skill in writing and speaking Spanish.

SPN 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPN 4500 Spanish Civilization
3 sh (may not be repeated for credit)
Cultural and historical background of Spain. Meets Multicultural requirement.

SPN 4520 Latin American Culture and Civilization
3 sh (may not be repeated for credit)
Cultural and historical backgrounds of Latin American literature. Meets Multicultural requirement.

SPN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPANISH LIT:WRITINGS Courses

SPW 3190 Topics in Hispanic Literature
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: SPN 2200
An introduction to the literary analysis of selected Hispanic Texts, using readings and film, discussions and writing assignments. Normally offered in Spanish (it could also be taught in English), it will be aimed at intermediate to native Spanish speakers with an interest in Hispanic--Spanish and / or Latin American--literature. It will enhance language skills and foster an appreciation of Hispanic culture, adding the challenge of applying critical analysis to selected texts in Hispanic literature.

SPW 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPW 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPW 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPEECH COMMUNICATION Courses

SPC 2608 Basic Communication Skills
3 sh (may not be repeated for credit)
Emphasizes the link between the fundamental theories in speech communication and effective public speaking. Includes practical training and study in public presentation skills, audience analysis, speech construction and problem solving using lecture and experiential learning format. Credit may not be received in both SPC 2608 and SPC 2016. (General Studies Course: HUM / VAL).

SPC 3301 Interpersonal Communication
3 sh (may not be repeated for credit)
Emphasizes the link between interpersonal communication skills and relationship building in personal and professional contexts. Includes components on self-awareness, impression management, rapport building, developing intimacy, managing conflict, ethical use of interpersonal power, diversity issues, leadership, and using technology to facilitate interpersonal communication. Involves hands-on service learning project that provides the opportunity to practice interpersonal skills in a professional setting.

SPC 3593 Practicum in Forensics
1-3 sh (may be repeated for up to 10 sh of credit)
Active forensics participation through library research, topic analysis, discussion, practice and travel to intercollegiate tournaments. Permission is required. Credit may not be received in both SPC 3593 and SPC 3594.

SPC 3605 Speech Writing, Analysis, and Delivery
3 sh (may not be repeated for credit)
Prerequisite: SPC 2608
Practical application in writing, analyzing, and delivering speeches for a variety of professional and social rhetorical situations.

SPC 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SPC 4513 Argumentation and Debate
3 sh (may not be repeated for credit)
Provides studies in the theories of argumentation and debate, with many opportunities for practice. Students will be introduced to a variety of formal and informal debate formats. Theories of argumentation drawn from classical & contemporary sources, with application to practice, including: arrangement / construction, evaluation, oral delivery, and appreciation of forms or argument with consideration of their logical, ethical, and persuasive force. The content includes coverage of the fundamental principles and practices of critical reasoning and public logic. Designed for students interested in legal, academic, professional or political realms of communication and advocacy.

SPC 4540 Propaganda and Persuasion
3 sh (may not be repeated for credit)
Explores persuasion theory of persuasive activity at a variety of turns in the modern world. Special focus is on social movements, political campaigns and advertising. Seeks to gain a clearer understanding of how persuasive strategy works, from where it emerges and why and how we are affected by it.

SPC 4640 American Public Address
3 sh (may not be repeated for credit)
The character of public discussion has been the key factor in the construction of community in the United States. Public discourse defines the fashion and terms in which we shape communities, including how we legitimate leaders, grant authority and create public space. This course is about the variety of ways in which Americans have used their voices to live their lives in communities. Over the 265 years covered by this course, the variety is a rich mix of voices which in different ways understood and responded to the world they experienced.

SPC 4650 Political Communication
3 sh (may not be repeated for credit)
An introduction to the field of political campaign communication, including advertising, speech making, debates, and journalist coverage of campaigns. Course dedicates a significant amount of attention to strategic communication in campaign contexts.

SPC 4680 Rhetorical Criticism
3 sh (may not be repeated for credit)
The rationale, methods, and applications of rhetorical criticism. Goal is to improve understanding and evaluation of real-world persuasive communication. Lecture and reading materials are divided into two main units. First is the general nature of both rhetoric and criticism, providing a basic conceptual framework for the identification and analysis of rhetorical artifacts. Second is a survey of nine contemporary critical approaches: cluster criticism, fantasy-theme criticism, feminist criticism, genre criticism, ideological criticism, metamorphic criticism, narrative criticism, pentadic criticism, generative criticism.

SPC 4710 Intercultural Communication
3 sh (may not be repeated for credit)
Explores issues related to intercultural communication processes. Considers the important role of context (social, cultural, and historical) in intercultural interactions. The goal is to develop an understanding of the process of communicating across cultural boundaries. Operates from the premise that culture is both a producer and product of communication, and, therefore, an appreciation of communication processes is an essential factor in promoting positive intercultural relations.

SPC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPC 6646 Strategic Approaches to Presentational Speaking
3 sh (may not be repeated for credit)
Emphasizes advanced rhetorical theory, executive-level presentational speaking skill set development, and a diverse array of analytic tools used for context and public audience analysis. Focuses on the strategic application of these analytic and performance tools to instances of public and professional advocacy.

SPC 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPEECH EDUCATION Courses

SED 5340C College Teaching of Speech Communication
3 sh (may not be repeated for credit)
Guides students through theory, techniques and experiential learning environments related to the college teaching of speech communication. Permission is required.

SPORTS MANAGEMENT Courses

SPM 3004 Introduction to Contemporary Sport Management
3 sh (may not be repeated for credit)
Introduction to the field of sport management required for all students in the major and available to students interested in working in the sport industry. Provides an overview of sport management rather than detailed instructions about how to manage sport enterprises. It serves as a foundation for students' further studies in various subject areas in the field/profession of sport management, such as sport marketing, sport law, sport facility and event management, economics of sport, sport finance, etc.

SPM 3104 Sport Facility and Event Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
An introduction to sports facilities that focuses on elements of planning, design, and management, while examining event management functions related to maintenance, security, operations, and evaluation. Emphasis will be focused on problem solving utilizing class discussions, guest speakers, and facility site visitations as feasible. Open only to Juniors and Seniors.

SPM 3306 Sports Marketing
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
Topics and issues involved in the promotion and marketing of sporting events, products, and services will be discussed. Examination of the evolution, theories, and practical applications of marketing strategies and current issues relative to social, political, ethical, and cultural environments will be presented. Open only to Juniors and Seniors.
SPM 3403 Sport Media
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting. Open only to Juniors and Seniors.

SPM 4003 Sport Management Careers Seminar
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
Designed to prepare and assist students entering the workforce by completing a field experience and participating in classroom discussions. Students will learn job seeking skills including job searching, creating quality application documents, interviewing, networking, and professionalism. The primary objective of this course is to have students secure their ideal internship. It is taken the semester prior to students' internship/capstone course. Must complete 12 hours of SPM 3/4000 level courses.

SPM 4503 Economic Issues in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
Introduction to the fundamental concepts of sport economics and economic strategies in the sport industry. Students' knowledge of sport products and practical skills for evaluating economic decision making as part of a sports management team are developed. Open only to Juniors and Seniors.

SPM 4505 Principles and Issues in Sport Finance
3 sh (may not be repeated for credit)
Prerequisite: ACG 3082 AND SPM 3004 AND (ECO 2013 OR ECO 3003)
Students will gain the knowledge necessary to successfully financially manage budget, account, ascertain funding, and navigate other complex sport finance issues. The specific financial implications of managing a sport related business are covered. Open only to Juniors and Seniors.

SPM 4604 Governance in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
A study of the growing spread and development of sport throughout the world as well as how the governing bodies involved affect the structure, organization, and delivery of sport. Open only to Juniors and Seniors.

SPM 4723 Sport Law and Risk Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 4723
An introduction to the legal concepts that may significantly affect one's career in management of amateur or professional sports, and of other areas in sport operations. Topics of discussion primarily focus on the legal issues involved in business practices in the sport industry using a case analysis format. Open only to Juniors and Seniors.

SPM 4945 Senior Capstone Experience in Sport Management
6 sh (may not be repeated for credit)
This capstone experience for Sport Management majors provides opportunities for students to put theory into practice through active participation in an appropriate sport organization. While students are able to gain some experience in the field supervised by practitioners in the sport industry, academic support from faculty is provided to ensure students accomplish the goals and objectives planned by the student, the academic instructor, and the field supervisor. Students will complete a capstone project that should advance their learning experience, as well as potentially benefit the sport organization for which they work. Departmental permission is required. Approval by academic adviser and program director is required.

STATISTICS Courses

STA 2023 Elements of Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114 OR MAC 1140 OR MAT 1033 OR MGF 1106 OR MGF 1107 OR 22 ACT Math OR 520 SAT Math
Fundamental statistical concepts. Probability, inference, estimation, hypothesis testing. (Gordon Rule Course: Applied Math) and (General Studies Course: MAT / MO).

STA 3162C Applied Statistics
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Inferential statistics from an applied point of view. Probability and sampling distributions, confidence intervals and hypothesis testing, ANOVA, correlation, simple and multiple linear regressions. SAS computer techniques. Lab required. (Gordon Rule Course: Applied Math).

STA 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

STA 4173 Biostatistics
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
A second course in statistics for students in the Biological Sciences. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Offered concurrently with STA 5176; graduate students will be assigned additional work. (Gordon Rule Course: Applied Math).

STA 4321 Introduction to Mathematical Statistics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Probability, conditional probability, distributions of random variables, distribution of functions of random variables, limiting distributions, multivariate probability distributions. (Gordon Rule Course: Applied Math). Offered concurrently with MAP 5XX1 (Introduction to Mathematical Statistics I); graduate students will be assigned additional work.
STA 4322 Mathematical Statistics II
3 sh (may not be repeated for credit)
Prerequisite: STA 4321
Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 5326; graduate students will be assigned additional work. (Gordon Rule Course: Applied Math).

STA 4664 Introduction to Statistical Quality Control
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
Covers control charts, capability indices, and related topics used in process control. (Gordon Rule Course: Applied Math).

STA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

STA 5166 Special Topics in Statistics
3 sh (may not be repeated for credit)
Introduction to one- and two-way ANOVA; nonparametric methods, correlation and linear regression analysis. Introduction to SAS.

STA 5176 Statistical Modeling
3 sh (may not be repeated for credit)
A second course in statistics for students in the Mathematical Sciences Graduate Program. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Students will use matrix algebra to derive some properties of regression diagnostics, in addition to using the method of least squares to derive optimal estimators in linear models. This course is offered concurrently with STA 4173; graduate students will be assigned additional work.

STA 5206 Analysis of Variance
3 sh (may not be repeated for credit)
Statistical methods useful in design and analysis of experiments in physical, biological, and social sciences. Analysis of variance including randomized blocks, Latin square, factorial arrangements, regression. Offered concurrently with STA 4202. Graduate students will be assigned additional work.

STA 5326 Mathematical Statistics II
3 sh (may not be repeated for credit)
Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 4322; graduate students will be assigned additional work.

STA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

STA 6235 Modeling in Regression
3 sh (may not be repeated for credit)
Prerequisite: STA 5176
Several advanced topics in regression are covered, such as nonlinear regression, influence diagnostics, Eigensystem analysis of X'X matrix, logistic regression, ridge regression, robust regression, and generalized linear models.

STA 6246 Design and Analysis of Experiments
3 sh (may not be repeated for credit)
Further concepts in design and analysis of planned experiments with emphasis on confounding and fractional replications of factorial experiments; composite designs; incomplete block designs; estimation of variance components.

STA 6507 Nonparametric Statistics
3 sh (may not be repeated for credit)
Extensive coverage of goodness-of-fit tests, location problems, association analysis and general nonparametric topics.

STA 6607 Operations Research I
3 sh (may not be repeated for credit)
Mathematical probability models and distributions; linear programming models; the simplex method; duality and sensitivity analysis; inventory models; queuing theory; simulation.

STA 6608 Operations Research II
3 sh (may not be repeated for credit)
Decision theory and games, PERT / CPM, Markovian decision process, integer programming, dynamic programming, reliability and maintenance.

STA 6666 Statistical Quality Control I
3 sh (may not be repeated for credit)
Procedures used in acceptance sampling and statistical process control are based on concepts and theory from probability and statistics. Introduces the applications of these procedures, investigates them from the standpoint of their statistical properties and develops the methodology for construction, evaluation and comparison of procedures.

STA 6707 Multivariate Methods
3 sh (may not be repeated for credit)
Prerequisite: STA 6707
Multivariate extensions of Chi-Square and t-tests; discrimination and classification procedures; applications to diagnostic problems in biological, medical, anthropological and social research; multivariate analysis of variance; factor analysis and principle components analysis.

STA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
STA 6930 Proseminar in Statistics
1 sh (may not be repeated for credit)

Each M.A. candidate (except those who choose the thesis option), shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory / unsatisfactory basis only. MA candidacy and permission is required.

STA 6971 Thesis
1-6 sh (may be repeated for up to 8 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

STUDENT DEVELOP SERVICES Courses

SDS 6345 Educational and Vocational Guidance
3 sh (may not be repeated for credit)
Socio-psychological forces influencing career choice; identification, selection and use of educational and career guidance resources; use of decision-making concepts and skills in choosing educational and occupational alternatives.

SDS 6425 PK-12 Guidance and Counseling for Diverse Populations
3 sh (may not be repeated for credit)
Designed to enable guidance counselors to consult with teachers and students to address race, class, gender, sexual orientation, disabilities, and other social injustice differences in children and adolescents.

SDS 6620 Administration, Curriculum, and Instruction for Guidance Counselors
3 sh (may not be repeated for credit)
Designed to provide students with an introduction to the counselor's role in the school improvement process and the philosophies of educational reform and accountability. Examines the role of classroom management and organization to promote PK-12 learning. Additionally, introduces the basic technologies that can be used by guidance counselors to facilitate student learning.

SDS 6642 A Survey of Literature in College Student Personnel
3 sh (may not be repeated for credit)
A seminar style survey of seminal books and articles in the field of college student personnel services (student affairs leadership and administration).

SDS 6647 Foundations of Counseling Principles for Student Affairs Administration
3 sh (may not be repeated for credit)
Focuses on basic counseling concepts and applications essential for effective student affairs practice and how these skills are best used in a student service setting. Serves as a professional preparation course in which students will have the opportunity to learn the basics of counseling skills including developing basic listening, conflict resolution, interviewing, and referral skills.

SDS 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

STUDENT LIFE SKILLS LEARN Courses

SLS 1106 Freshman Year Experience
2 sh (may not be repeated for credit)
Assists first-time-in-college students to make a favorable transition to the university setting, to adjust to the academic demands that will be made of them within a university environment, and to investigate the possibilities of personal and intellectual growth.

SLS 1109 Academic Foundations Seminar
3 sh (may not be repeated for credit)
An introduction to students' first two years at the University that is designed to prepare them for a successful college experience. Provides the necessary knowledge and experiences for them to be successful personally and academically during their college years and beyond.

SLS 2531 Academic Retention Seminar
2 sh (may not be repeated for credit)
Assists students with their re-entry into the University following academic suspension by self-assessment of previous academic performance and development of a personalized academic plan. Permission is required.

SLS 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SLS 2942 Disney Field Experience
1 sh (may not be repeated for credit)
Paid work experience at Walt Disney World coupled with a College Program Course of the students' choosing. Engages students in a rigorous and challenging professional academic program to advance career research with an emphasis on exploration, analysis, and application. Graded on satisfactory / unsatisfactory basis only. Permission is required.

SLS 2948 Service Learning Field Study I
1-3 sh (may not be repeated for credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SLS 3273 Applied Leadership Development
3 sh (may not be repeated for credit)
Supplements and enhances students' leadership and personal development skills. Through readings, discussions, presentations and projects, students apply leadership theories and practices to their organization and everyday lives. Permission is required. Offered Fall semester only.
SLS 3948 Service Learning Field Study II
1-3 sh (may not be repeated for credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

TAXATION Courses

TAX 3021 Tax For Decision Makers
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Coverage of tax topics and how they influence financial and business decisions. Available to non-accounting majors only.

TAX 4001 Tax Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Principles of federal income taxation as provided in Internal Revenue Code and regulations; added concentration on principles applicable to individuals. Landmark cases and significant current treasury releases discussed. Credit may not be received in both TAX 4001 and TAX 4002.

TAX 4012 Corporate Income Tax
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earnings, distributions, reorganizations, liquidations, and Subchapters. In addition, the formation, operation, and termination of partnerships will be studied. Offered concurrently with TAX 5105; graduate students will be assigned additional work.

TAX 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TAX 5105 Corporate Income Tax
3 sh (may not be repeated for credit)
Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earnings, distributions, reorganizations, liquidations, and Subchapters. Offered concurrently with TAX 4012; graduate students will be assigned additional work.

TAX 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TAX 6065 Tax Data Bases, Research and Procedure
3 sh (may not be repeated for credit)
Interpretative sources of tax laws and their interrelationships plus an analysis of federal tax procedures at the judicial and administrative level.

TAX 6405 Estate Gift and Trust Taxation
3 sh (may not be repeated for credit)
Estate and gift taxation and Subchapter J with emphasis on family tax planning.

TAX 6875 Special Topics in Taxation
3 sh (may not be repeated for credit)
An advanced course in taxation of individuals and business entities. Intended for students interested in advanced tax issues. Emphasis is placed on topics usually not covered in other tax courses. Ideally suited for exploring the constantly changing federal tax law. Permission is required.

TAX 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TEACH ENG AS A SECOND LANG Courses

TSL 4080 ESOL Principles and Practices
3 sh (may not be repeated for credit)
Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 5085; graduate students will be assigned additional work.

TSL 4081 Empowering Teachers to Teach English to ESOL Students
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This is the second of two courses designed to provide students with information and skills concerning the education of students who have limited English proficiency. The course addresses cross-cultural understanding and methods of teaching English to speakers of other languages. It also focuses on the role of applied linguistics in second language teaching and the role and function of assessment of ESOL students.

TSL 4140 ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This course builds on knowledge and skills developed in the prerequisite course. It will extend understanding of various ways that language and culture affect second language learners’ participation and learning in K-12 classrooms. This course covers the study of curriculum and materials development for English Language Learners (ELL), reviews the educational theories of language acquisition, learning and literacy, and provides class participants with knowledge of ESOL methodologies. This course will introduce ESOL program models and materials and will cover the integration of language and content. Instruction of second language learners and practical application of course material will be emphasized throughout the class. Offered concurrently with TSL 5142; graduate students will be assigned additional work.
TSL 4251 Applied Linguistics
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This course aims to provide the basis linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar considered necessary to teach English to English Language Learner (ELL). Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. Students will participate in the process of applying the linguistics, psycholinguistics, and sociolinguistics to teaching English as a second language with emphasis on pronunciation, intonation, structural analysis, morphophonemic, and decoding from print to sound. In addition, students will apply the knowledge gained to perform contrastive analysis and will use error analysis on the interference problems found with the ESOL students. The course addresses cross cultural understanding and methods of teaching English to speakers of other languages but focuses on the role of applied linguistics in second language teaching and the assessment of ESOL students. Offered concurrently with TSL 5250; graduate students will be assigned additional work.

TSL 4340 Methods of Teaching ESOL
3 sh (may not be repeated for credit)
Prerequisite: TSL 4140
Based on the fundamentals acquired in the prerequisite course, students will learn the history of approaches in language learning and teaching, transitional methods and the most current methods and approaches in teaching English as an additional language. Students will also examine the approaches that are believed to be most effective in teaching English Language Learners (EELs) with and emphasis on the four language modes as well as the development of vocabulary in L2. Offered concurrently with TSL 4345.

TSL 4441 Testing and Evaluation
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate widely used language tests, construct and administer language tests, and examine how test scores are used in educational settings. The use of authentic assessment for English Language Learners and the unique role of language will be a focus. Offered concurrently with TSL 5440; graduate students will be assigned additional work.

TSL 4520 Cross Cultural Communication and Understanding
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
Develops awareness and understanding of the cultures represented by the different language minorities within Florida and the nation; provides an emphasis on research that will enable participants to plan and implement curriculum, instruction, and assessment activities to meet special needs of linguistically and culturally diverse students.

TSL 5085 ESOL Principles and Practices
3 sh (may not be repeated for credit)
Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 4080; graduate students will be assigned additional work.

TSL 5142 ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)
Covers the study of curriculum and materials development for second language learners. It reviews the educational theories of language acquisition, learning and literacy. It provides class participants with knowledge of the various types of curricula, and the problems and solutions inherent in standardized curricula. Will also introduce ESOL program models currently used in Florida. Students will receive the necessary skills to select and use appropriate ESOL instructional strategies, materials, and classroom use, and to develop their own ESOL instructional units, materials and technologies. Offered concurrently with TSL 4140; graduate students will be assigned additional work. Credit may not be received in TSL 5142 and either TSL 6145 or TSL 5145.

TSL 5250 Applied Linguistics
3 sh (may not be repeated for credit)
Aims to provide the basic linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar needed to teach English to second language learners. Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. The participants will apply the knowledge gained to do contrastive analysis and will use error analysis on interference problems found with ESOL students. This will take place during a practicum in EFL or ESOL environment. Offered concurrently with TSL 4251; graduate students will be assigned additional work. Credit may not be received in both TSL 5250 and TSL 6250.

TSL 5345 Methods of Teaching ESOL
3 sh (may not be repeated for credit)
Prerequisite: TSL 5142
Based on the fundamentals acquired in the prerequisite course, students will learn the history of approaches in language learning and teaching, transitional methods and the most current methods and approaches in teaching English as an additional language. Students will also examine the current approaches that are believed to be most effective in teaching English Language Learners (ELLs) with an emphasis on the four language modes as well as the development of vocabulary in L2. Offered concurrently with TSL 4340 (Methods of Teaching ESOL); graduate students will be assigned additional work. Offered Fall and Spring semester only.
Co-requisite: TPP 2250L Musical Theatre Vocal Theory Lab  
1 sh (may not be repeated for credit)  
Co-requisite: TPP 2250  
The Lab will provide students the opportunity to execute their skills in music readiness by demonstrating assigned concepts on the piano. These will be directly applied to music they are preparing to perform.

TPP 2250 Acting for the Camera  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 2100  
Adapting the craft of acting to the needs of the TV or film camera. Work in a studio on scenes, daytime serials, commercials. Permission is required. Material and supply fee will be assessed.

TPP 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
TPP 3121 Acting Improvisation  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 2100 OR TPP 2110  
Study of improvisational technique through games and exercises.

TPP 3155 Acting II  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 2110  
Continues development of the fundamentals of acting through work on scenes from contemporary American theatre. Further develops student's understanding of the various acting philosophies and techniques of Hagen and Stanislavski.

TPP 3221 Audition Techniques  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 2110  
Techniques for audition in theatre, musical theatre, television, and film including resume preparation and an overview of opportunities in professional acting and graduate school.

TPP 3250 Musical Theatre Performance  
3 sh (may not be repeated for credit)  
Serving as the capstone to the Musical Theatre B.F.A. Combines the study of vocal technique with acting technique to create a performance ensemble to tour to various venues throughout the region.

TPP 3252C Music Theatre Scene Study  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 3155  
Students will work on scenes and songs from musical theatre repertoire of different styles and / or eras. Work will involve partner work and / or work in small groups.

TPP 3257 Musical Theatre Voice  
1 sh (may be repeated for up to 8 sh of credit)  
Prerequisite: TPP 2250  
Vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and interpretation of songs for musical theatre production.

TPP 3260 Acting for the Camera  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 3260  
Adapting the craft of acting to the needs of the TV or film camera. Work in a studio on scenes, daytime serials, commercials. Permission is required. Material and supply fee will be assessed.
TPP 3310 Play Directing
3 sh (may not be repeated for credit)
Prerequisite: TPP 3155 AND TPP 3650
This course is an introduction to the art and craft of directing for the stage. Class work is aimed at teaching new directors the fundamentals of analyzing the text, communicating effectively with actors, working on different types of stages, and creating a cohesive production concept. This course requires rehearsal time outside of regularly scheduled class hours.

TPP 3650 Script Analysis
3 sh (may not be repeated for credit)
Prerequisite: THE 2300
Exploration of a variety of styles and historical periods of play scripts through reading and analysis of the text as the basis of performance and production.

TPP 3743C Music Theatre Voice for Actors
1 sh (may be repeated for up to 4 sh of credit)
Prerequisite: TPP 2250
Students will learn vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and song interpretation. Students will work both in groups and individually in front of the class.

TPP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TPP 4113 Acting III
3 sh (may not be repeated for credit)
Prerequisite: TPP 1282 AND TPP 3155
Developing the actor's timing, vocal, and physical skill to create characters in plays from Restoration, French farce, Theatre of the Absurd, etc. Credit may not be received in both TPP 4113 and TPP 4141.

TPP 4143 Acting: Styles II
3 sh (may not be repeated for credit)
Prerequisite: TPP 1282 AND TPP 3155
Emphasis on creating requiring skill with language.

TPP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THEATRE PRODUCTION AND ADM Courses

TPA 2000 Design for the Theatre
3 sh (may not be repeated for credit)
Play analysis for visual elements and expression. Stylistic sources as springboards to the design idea. Development of visual concepts for productions.

TPA 2200 Technical Theatre
3 sh (may not be repeated for credit)
Co-requisite: TPA 2290L
Methods of constructing and rigging scenery for the stage. Basic scene painting techniques. Stage lighting equipment and its use. Lab required.

TPA 2248 Introduction to Stage Makeup
3 sh (may not be repeated for credit)
Basic principles of the art of stage makeup. Practice in the design and execution of makeup for various purposes. Material and Supply Fee will be assessed.

TPA 2290L Technical Theatre Laboratory
1 sh (may not be repeated for credit)
Co-requisite: TPA 2200
A practical laboratory for application of technical theatre skills. Material and supply fee will be assessed.

TPA 3020 Lighting Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 3344
Introduction to the work of the lighting designer through theoretical design projects and light lab projects. The theoretical designs cover the design process that the lighting designer uses to light a theatrical production. Each theoretical design introduces new concepts and challenges for the designer. The light lab projects build your ability to understand light and how to use light in a theatre situation. Projects also build in complexity and add to the overall design experience.

TPA 3060 Scene Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 2000 AND TPA 3344
Scene design is a complex combination of artist, painter, sculptor, actor, and director. Designers need to be able to envision the script and translate it to a three dimensional space, interpret how the actor is going to move in the space and how the director will compose the stage picture. Course examines those aspects of design and through theoretical projects explores visualizing a script in theatrical space.

TPA 3223 Lighting Technology
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200
Advanced study of the lighting equipment, dimmers, control, and other electronics used in the Theatre.

TPA 3230 Costume Construction
3 sh (may not be repeated for credit)
Techniques of patterning, cutting, fitting, draping, and basic construction of stage costumes. Material and supply fee will be assessed.

TPA 3313 Scenic Technology
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200
Advanced study of theatrical construction techniques, rigging, materials, hardware, and their use in the Theatre. In addition, the study of drafting for construction drawing, budgeting, time estimations and theatre safety.

TPA 3344 Drafting for the Stage
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200
Drafting is a very important communication tool for designers and technicians in the theatre, allowing them to give precise directions on how a project is to be implemented. Students gain an understanding of drafting tools to effectively communicate ideas in a clear and precise form. Offered Spring semester only.
TPA 3601 Stage Management  
3 sh (may not be repeated for credit)  
Prerequisite: THE 2000  
Stage Managers work with things and people. Course clarifies the things to work with as a Stage Manager and the techniques needed to work effectively with them. Discusses different methods to use with the myriad of people and personalities encountered in the Theatre. Improvisation and class discussion are employed to examine how to work more effectively with everyone on a production.

TPA 4021C Lighting Design II  
3 sh (may not be repeated for credit)  
Prerequisite: TPA 3020  
Advances the study of the design process involved in lighting design. Theoretical design projects and light lab projects are used to give the student challenges in the classroom that can be directly translated to the design process. Theoretical projects in a variety of design venues and types of theatre with lab projects that further build the designer's resources.

TPA 4045 Costume Design I  
3 sh (may not be repeated for credit)  
Prerequisite: TPA 4260  
Introduction to theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size. Permission is required.

TPA 4046 Costume Design II  
3 sh (may not be repeated for credit)  
Prerequisite: TPA 4045  
Advanced theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size.

TPA 4061 Scene Design II  
3 sh (may not be repeated for credit)  
Prerequisite: TPA 3060  
Advanced projects in scene design examine the challenges involved in designing in a variety of different venues and types of production. Expands the designer's tools to communicate their design idea to the director.

TPA 4077 Scene Painting  
2 sh (may not be repeated for credit)  
Practice in various techniques of scene painting. Consideration of pigments, color mixing, kinds of paints, paint equipment and its care. Material and supply fee will be assessed.

TPA 4504 Performing Arts Administration  
3 sh (may not be repeated for credit)  
Various aspects involved in the administration of a Performing Arts Organization. Special attention will be paid to the interrelationship in both goals and administration among various performing arts institutions including theatres, opera companies, and symphonies. Lectures and class discussion will provide an overview of the different areas of non-profit performing arts administration (including organizational structures, marketing, fundraising, grant writing, financial management, and producing) and applying these skills to the unique needs of a theatre company or other performing arts organization.

TPA 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

TPA 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

THEATRE STUD Gen RESO Courses  

THE 2000 The Theatre Experience  
3 sh (may not be repeated for credit)  
Role of theatre in contemporary American culture. Arts and craft of theatre, including drama, criticism, acting and production. (General Studies Course: HUM / FA).

THE 2300 Survey of Dramatic Literature  
3 sh (may not be repeated for credit)  
Survey of play scripts representing a succinct history of Western drama. (General Studies Course: HUM / FA), (Gordon Rule Course: Wrtg).

THE 2905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

THE 2925 Play Production  
1 sh (may not be repeated for credit)  
Study and participation in the preparation and production of plays and/or musicals. Material and Supply Fee will be assessed.

THE 3090 Theatrical Production & Performance  
1 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: TPA 2200  
Individualized study in all areas of theatrical production and performance through apprenticeship on departmental productions during a semester. Completion of all lower division common prerequisites is required. Material and Supply Fee will be assessed.

THE 3112 History of Theatre I  
3 sh (may not be repeated for credit)  
Theatre history from origins through the eighteenth century.

THE 3113 History of Theatre II  
3 sh (may not be repeated for credit)  
Theatre history from eighteenth century through the present.

THE 3243 Musical Theatre History  
3 sh (may not be repeated for credit)  
History and development of musical theatre from origins to present.

THE 3306 Dramatic Literature II  
3 sh (may not be repeated for credit)  
Prerequisite: THE 2300  
A survey of play scripts representing important contributions from various genres of Western Theatre from the Greeks through contemporary Drama.

THE 3481 Dramaturgy  
3 sh (may not be repeated for credit)  
Prerequisite: TPP 3650  
An overview of various dramaturgical principles in a theatrical text. The topics are the relationship between text and co-text, the time-space relations, levels of narration, character construction, the adaptation from literature to stage, and the relationship of the text to society and art.

THE 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)
THE 4260 Costume History
3 sh (may not be repeated for credit)
Historical periods of costume and fashion from ancient times to the present, their relation to theatre history, and potential use as sources for theatrical costume design.

THE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE 4970 Senior Project
3 sh (may not be repeated for credit)
Preparation and completion of performance or design presentation as culminating project for the Bachelor of Fine Arts or Bachelor of Arts degree. Permission is required.

THE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TRANSPORTATION LOGISTICS Courses
TRA 3153 Strategic Transportation Management
3 sh (may not be repeated for credit)
Presents the fundamental elements necessary to plan transportation systems. It examines the importance of transportation in the economy and the strategic and operational roles of transportation in supply chains. Emphasis is placed on domestic and global transportation operations, services pricing, carrier selection, equipment and shipment planning, transportation execution systems, intermodal operations, security, and expanded services in distribution.

ZOOLOGY Courses
ZOO 3556 Biology of Coral Reefs
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Overall, the aim of this course is to highlight the organization, structure, productivity, and biological diversity of the coral reef ecosystem. Special attention and focus will be given to environmental and anthropogenic disturbances.

ZOO 3558 Coral Reefs
3 sh (may not be repeated for credit)
Coral Reefs is a non-biology major course designed to provide a general overview of tropical and sub-tropical coral reefs to students with an interest in these fascinating ecosystems, but who lack a strong theoretical background in the biological sciences. Covers basic concepts dealing with the structure, formation, biology and ecology of Atlantic and Pacific coral reefs. Students will be presented with interactive exercises, projects, and module-assessments throughout the course that will reinforce major biological concepts and promote critical thinking.

ZOO 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ZOO 4254 Marine Invertebrate Zoology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: ZOO 4254L
Survey of the invertebrates, with emphasis on systematics, morphology, physiology and ecology. Labs include detailed study of types and exposure to diversity, using live and preserved specimens, and exposure to techniques used in zoological research. Emphasis is on local marine species. Material and supply fee will be assessed for corresponding lab.

ZOO 4254L Marine Invertebrate Zoology Lab
0 sh (may not be repeated for credit)
Co-requisite: ZOO 4254
Corresponding lab for Marine Invertebrate Zoology.

ZOO 4304 Marine Vertebrate Zoology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: ZOO 4304L
Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab.

ZOO 4304L Marine Vertebrate Zoology Lab
0 sh (may not be repeated for credit)
Co-requisite: ZOO 4304
Corresponding lab for Marine Vertebrate Zoology.

ZOO 4454 Elasmobranch Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: ZOO 5452; graduate students will be assigned additional work
Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 5452; graduate students will be assigned additional work.

ZOO 4457 Fish Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: ZOO 5458; graduate students will be assigned additional work.
Classic and contemporary topics in fish physiology discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 5458; graduate students will be assigned additional work.

ZOO 4458 Marine Mammalogy
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 5486; graduate students will be assigned additional work.

ZOO 4459 Marine Vertebrate Zoology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: ZOO 4459L
Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab.

ZOO 4459L Marine Vertebrate Zoology Lab
0 sh (may not be repeated for credit)
Co-requisite: ZOO 4459
Corresponding lab for Marine Vertebrate Zoology.

ZOO 4485 Marine Mammalogy
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 5486; graduate students will be assigned additional work.
ZOO 4513 Animal Behavior
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Contemporary view of animal behavior including discussion of sensory and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 5514; graduate students will be assigned additional work.

ZOO 4880C Fisheries Biology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 5881C; graduate students will be assigned additional work.

ZOO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ZOO 5305 Marine Vertebrate Zoology
4 sh (may not be repeated for credit)
Co-requisite: ZOO 5305L

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab. Offered Concurrently with ZOO 4304; Graduate students will be assigned additional work.

ZOO 5305L Marine Vertebrate Zoology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: ZOO 5305

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab. Offered concurrently with ZOO 4304L; Graduate students will be assigned additional work.

ZOO 5452 Elasmobranch Biology
3 sh (may not be repeated for credit)

Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 4454; graduate students will be assigned additional work.

ZOO 5458 Fish Physiology
3 sh (may not be repeated for credit)

Classic and contemporary topics in fish physiology discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 4457; graduate students will be assigned additional work.

ZOO 5486 Marine Mammalogy
3 sh (may not be repeated for credit)

Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology, and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 4485; graduate students will be assigned additional work.

ZOO 5514 Animal Behavior
3 sh (may not be repeated for credit)

Animal behavior including discussion of sensory biology and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.

ZOO 5881C Fisheries Biology
4 sh (may not be repeated for credit)

Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 4880C; graduate students will be assigned additional work.

ZOO 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
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