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About UWF

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• 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.

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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 of UWF’s upcoming accreditation visit in 2019, 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://www.fldoe.org/core/fileparse.php/7721/urlt/universitywestflorida.pdf). (http://www.fldoe.org/core/fileparse.php/7721/urlt/universitywestflorida.pdf)

Supporting Documentation:
The UWF School of Education Report Card:
Title II Report (http://catalog.uwf.edu/pdf/UniversityofWestFloridaEPIITitleIIInstitutionReportCard_2010_11Data.pdf)

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, Social Sciences and Humanities
The College of Arts, Social Sciences, and Humanities at the University of West Florida is committed to the educational enrichment and professional development of students. The college’s mission is to provide:

- distinctive programming that serves quality students through engaging high-impact practice in and beyond the traditional classroom
- distinctive faculty activity that advances the academic enterprise and enriches the campus discussion, and
- distinctive partnerships that meet local and regional needs and contribute to intellectual life of the community.

The college supports its faculty and staff through strategically investing its resources, highlighting efforts and success, soliciting additional sources of funding, broadening and reinforcing its alumni network, and connecting educational effort with student outcomes to showcase UWF as an intellectual and cultural center of excellence.

College of Business
The mission of the College of Business is to provide a high quality, student-oriented, 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 success in business and society and contributes to the advancement of the educational and economic development of the Northwest Florida region.

College of Education and Professional Studies
The mission of the College of Education and Professional Studies 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.

College of Health
The mission of the College of Health (COH) is to provide a high quality education to current and future health and wellness professionals in a learning environment infused with interprofessional education, innovative research, hands-on practicums, and diverse engaging community activities. COH promotes the production of highly competitive graduates as judged by the highest academic standards in the fields of health.

Hal Marcus College of Science and Engineering
The mission of the Hal Marcus College of Science and Engineering (HMCSE) at the University of West Florida is to provide innovative programs of excellence in education, research, and public and professional service at both the undergraduate and graduate levels. The College promotes the production of highly competitive graduates as judged by the highest academic standards in the fields of science, technology, engineering, and mathematics (STEM).

University College
University College is focused on establishing relationships with incoming students by helping them to build a firm academic foundation. Students will be provided with academic and social support as well as high impact learning opportunities as they make the journey to graduation.

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: Committing 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

Each student should be aware of the dates and deadlines in the current official Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines) as published on the Office of the Registrar website (http://uwf.edu/offices/registrar). The Academic Calendar contains dates and deadlines for admission applications, changes in residency status, class registrations, fee payments, grade forgiveness options, pass/fail options, course registration changes (drop/add), course withdrawals, and graduation applications.
Campuses

In this section:

- Pensacola Campus (http://uwf.edu/about/location/university-locations)
- Emerald Coast Campuses (http://uwf.edu/emeraldcoast)
- Online Campus (http://onlinecampus.uwf.edu)
- Southern Regional Education Board's (SREB) Electronic Campus (http://electroniccampus.org)
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 (term 2/18/2010 - 1/6/2017)
- Dean Colson (term 1/6/2010 - 1/6/2017)
- Daniel Doyle, Jr. (term 3/10/2014 - 1/6/2017)
- Patricia Frost (term 1/6/2010 - 1/6/2017)
- Tonnette Graham, (Chairman, Florida Student Association)
- Morteza "Mori" Hosseini (term 1/6/2010 - 1/6/2017)
- H. Wayne Huizenga, Jr. (term 1/10/2013 - 1/6/2020)
- Alan Levine, (term 1/10/2013 - 1/6/2020)
- Wendy Link (term 1/10/2103 - 1/6/2020)
- Edward Morton (term 1/10/2103 - 1/6/2020)
- Katherine Robinson (term 8/4/2014 - 7/31/2016)
- Pam Stewart (Commissioner of Education)
- Fernando J. Valverde (term 12/18/2015 - 1/6/2019)

UWF Board of Trustees
- Lewis Bear, Jr., Chair
- Dick Baker
- Greg Britton
- Dave Cleveland
- Ted Fox, Faculty Senate President
- Robert Jones
- Suzanne Lewis
- LuTimothy May
- Daniel McBurney, SGA President
- Mort O'Sullivan, III, Vice Chair
- Jay Patel
- Bob Sires
- Bentina Terry

Executive Officials
- Judith A. Bense, President
- Martha Saunders, Provost and Executive Vice President
- Kevin Bailey, Vice President for Student Affairs
- Steve Cunningham, Vice President for Finance and Administration
- Brendan Kelly, Vice President for University Advancement
- George Ellenberg, Vice Provost
- Pam Northrup, Senior Associate Provost and CEO Innovation Institute
- Kim LeDuff, Associate Vice Provost; Chief Diversity Officer; Dean, University College
- John (Jay) Clune, Associate Vice Provost for Academic Programs
- Joffery Gaymon, Associate Vice President for Enrollment Affairs
- Rick Harper, Associate Vice President for Center for Research and Economic Opportunity
- Janice Gilley, Assistant Vice President, Government and Community Relations
- Pat Lott, General Counsel
- Steven Brown, Dean, College of Arts, Social Sciences, and Humanities
- William Crawley, Dean, College of Education and Professional Studies
- Robert Dugan, Dean, University Libraries
- Michael Huggins, Dean, Hal Marcus College of Science and Engineering
- Ermalynn Kiehl, Dean, College of Health
- Timothy O'Keefe, Dean, College of Business

Faculty

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

Faculty Emeriti
http://uwf.edu/offices/academic-affairs-division/award-winners---names/emeritus/

Campus Crime Information

University Police
- Argo Alert
- Campus Escort
- Emergency Management

Refer to information on UWF Police (http://uwf.edu/offices/police).

Campus Sex Crime Prevention Act

This federal law (http://offender.fdle.state.fl.us/offender/LegalBulletin.jsp#CSCPA) 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.

**Student Ombudsperson**

**Student Ombudsperson**
Refer to Dean of Students Office, Student Ombudsperson (http://uwf.edu/offices/dean-of-students/dean-of-students/student-ombudsperson).

**Student Advocate**
Refer to Dean of Students Office, Student Advocate (http://uwf.edu/offices/dean-of-students/dean-of-students/student-advocate).
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. 10)
• Admission Policies (p. 12)
• International Graduate Admission (p. 13)
• General Readmission (p. 15)
• Appeal of Admission Denial (p. 15)

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. ) 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%20with%20Records%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 unless otherwise specified by the graduate program to which you are applying. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program or if it may be waived. The University of West Florida accepts the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), and the Graduate Management Admissions Test (GMAT). 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
program:

the following eligibility requirements at the time of entering the ABM to begin taking approved graduate courses, is contingent on meeting Admission to the ABM program, which allows undergraduate students towards the completion of both the bachelor's and master's degree program may apply up to 12 graduate (5000-6000 level) credit hours degrees at an accelerated pace. Undergraduate students in this performing undergraduate students at the University an opportunity to be considered for enrollment in the desired semester. The Accelerated Bachelor's to Master's (ABM) programs allow high-

Departmental Requirements

Some departments have additional admission requirements such as auditions, portfolios, goal statements, letters of recommendation, departmental 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>
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<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
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<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.
- Before the student can persist to the master's degree, during the semester prior to undergraduate graduation, students must submit the standard graduate application for admission (or the express admission application) to the Graduate School including:
  - The application processing fee (unless submitting the express admission application)
  - Official copy of all non-UWF transcripts
  - Acceptable graduate admission test score. If submitting an express admission application, students should check with their department to make sure a graduate admission test score is required.
- Students who are a part of the ABM program cannot be conditionally admitted into the graduate program; they must either be provisionally or fully admitted into the graduate program.

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
• 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. 14) 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 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. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program or if it may be waived. 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 specialization to which the student is applying. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for the specialization to which the student is applying. Test scores must be no more than five years old.

• 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. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program or if it may be waived. 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 at the department's discretion. Students admitted for graduate study must meet the following criteria:

1. Earn at least a grade of "B" on each of those courses during the semester(s) where the student is admitted on a conditional basis.
   OR
2. Earn a semester grade point average above a 3.0, earning no less than a C+ on any given course, during the semester(s) where the student is admitted on a conditional basis.

Failure to accomplish the above may result in the removal of his/her status to pursue graduate study. Admission on a conditional basis should not be routine.

Departments may establish standards that exceed the University conditional admission requirements.

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/approvals
- 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)
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. Funds for one year of study and living expenses must be documented and approved by the University before an I-20 is issued.

The "Confidential Financial Statement" (http://uwf.edu/offices/university-college/departments/international-programs/international-student-services/forms) form must be completed, signed by the student, and certified 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. 16) 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/offices/university-college/departments/international-programs/international-student-services/forms) must meet a number of requirements as listed on the "Health Insurance Compliance Form" (http://uwf.edu/offices/university-college/departments/international-programs/international-student-services/forms), 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

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<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
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<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 Student Office's J-1 Exchange Student Admission (http://uwf.edu/offices/university-college/departments/international-programs/international-student-services/exchange-student-resources) webpage.

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 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 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 UW-F/REG. 3.003 (http://uwf.edu/trustees/procedures/documents/UW-F%20REG%203.003%20Admission%20of%20Applicants%20with%20Records%20of%20Criminal%20Conduct%20or%20Misconduct%20at%20Educational%20Institutions.pdf).

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
After Admission

Apply for Financial Aid
Refer to information on Financial Aid (http://uwf.edu/offices/financial-aid).

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 (http://uwf.edu/offices/military-veteran-resource-center).

Mandatory Immunization Health History Form
The University of West Florida (UWF), in compliance with Florida Statute (1006.69) and Florida Board of Governors Regulations (6.001 & 6.007), requires the completed UWF Mandatory Immunization Health History Form to be submitted to UWF Student Health Services as a prerequisite to matriculation or registration.

It is requested that the UWF Mandatory Immunization Health History Form be submitted to Student Health Services at least three (3) weeks prior to registration for timely processing. Late, incomplete, or inaccurate information may delay registration.

Follow these links for more information: Mandatory Immunization Health History Form (http://uwf.edu/offices/student-health-services/immunizations/uwf-online-immunization-form), and UWF Student Health Services (http://uwf.edu/offices/student-health-services).

Immunization Requirements
Refer to information on UWF Immunization Policy (http://uwf.edu/offices/student-health-services/immunizations/uwf-immunization-policy).

Immunization Exceptions/Waivers
Refer to information on UWF Immunization Exceptions and Waivers (http://uwf.edu/offices/student-health-services/immunizations/uwf-immunization-exceptions-and-waivers).

Submission of Documentation
Return the completed Mandatory Immunization Health History Form (http://uwf.edu/offices/student-health-services/immunizations/uwf-online-immunization-form) to Student Health Services (http://uwf.edu/offices/student-health-services) (SHS) via:

- **Drop Off**: Drop the form in the Immunization box at the front entrance of the Student Wellness Center (Building 960)
- **Email**: immunizations@uwf.edu
- **Fax**: (850) 857-6100 or
- **Mail**: University of West Florida, 11000 University Pkwy, Building 960 - Suite 106, Pensacola, Florida, 32514

MyUWF
New students may check their admission status through MyUWF (http://uwf.edu/offices/help-desk/myuwf-and-argonet/myuwf) at my.uwf.edu. Once admitted, students may also check their financial aid status (https://confluence.uwf.edu/display/public/Viewing+Financial+Aid+Status) and register for classes (http://uwf.edu/go/registration) through MyUWF.

Register for Classes
Refer to information on Registration Policies and Procedures (p. 36). A Registration Guide (https://confluence.uwf.edu/display/public/Student+Registration+Checklist) to assist with the 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 (http://uwf.edu/offices/business-auxiliary-services/nautilus-card/nautilus-card-overview). Refer to information on Tuition and Fees (p. 22).

Obtain Parking Permit
Parking a vehicle on campus requires a parking permit (http://uwf.edu/offices/business-auxiliary-services/parking-and-transportation/parking-permits) 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; refer to the Student Handbook (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 (http://uwf.edu/offices/dean-of-students/office-of-student-rights-and-responsibilities/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. Also refer to Appeals and Grievances (http://uwf.edu/offices/dean-of-students/dean-of-students/student-appeals-processes).

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.

**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.
Financial Aid

The Office of Student Financial Aid and Scholarships coordinates the awarding of scholarships, grants, work-study and loans through Federal, State and Institutional funds. We strive to provide access to higher education by reducing financial barriers so our students are able to achieve their goals.

Applying for Aid

To apply for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA), available online at www.fafsa.ed.gov and enter UWF’s school of 003955. Once the FAFSA is processed, the results will be transmitted electronically to UWF and the results will also be e-mailed to the student. We encourage students closely review the SAR. Students must reapply for financial aid each academic year by submitting a new FAFSA. More information on the application process is available here (http://uwf.edu/offices/financial-aid/applying-for-aid/steps-to-apply/)

Types of Aid

Your UWF aid package will be made up of a combination of awards depending on your academic standing, grade level, residency status, dependency status and financial need. Awards including scholarships, grants, waivers, loans and work study opportunities are all part of what makes a UWF education affordable.

Scholarships and grants are non-repayable aid, while a loan is borrowed money that must be repaid, often with interest. We offer employment opportunities in the form of work study for undergraduate students and assistantships for graduate students. The UWF Human Resources Office also offers student employment. Please visit jobs.uwf.edu for a complete list of Student OPS job openings.

For a complete list of types of aid offered at UWF, please visit our website, http://uwf.edu/offices/financial-aid/

Cost of Attendance

Two semester student budgets are used to determine financial aid awards. A student’s Cost of Attendance is based on their level, undergraduate or graduate, their residency and if they living arrangements: on campus, off-campus or commuter. Cost of Attendance charts are available here (http://uwf.edu/offices/financial-aid/cost-of-attendance/cost-of-attendance/)

Important Requirements

- Students are awarding assuming full-time enrollment status. Awards will be cancelled or prorated to a lower amount if a student decides to enroll less than full-time.
- Professors must confirm attendance in each course prior to aid being eligible to disburse.
- Federal regulations dictate that financial aid only be awarded for courses that count toward the student’s degree. Additional courses, or non-required courses, are not funded and cannot be used to determine enrollment status and financial aid eligibility.
- Repeat coursework regulations apply for federal financial aid recipients. Federal aid can be awarded to repeat a course one time (if you previously passed it); however, if a course is repeated a 3rd time, the course will not count for federal financial aid eligibility. Please contact the Financial Aid Office if you must repeat a course (that you previously passed) for a 3rd time.
- Students maintain Satisfactory Academic Progress(SAP) to be eligible for financial aid. Complete SAP policy and appeals process available here (http://uwf.edu/offices/financial-aid/satisfactory-academic-progress/satisfactory-academic-progress/)
- All communication regarding financial aid is sent to the student’s UWF e-mail account.
- For more information on financial aid requirements, please visit our website (http://uwf.edu/offices/financial-aid/
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).

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.

Educational Objective

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

Yellow Ribbon

The University of West Florida is an approved participating Yellow Ribbon Institution for the 2016-2017 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), and also who are not eligible for the C.W. Young Veteran tuition Waiver. Yellow Ribbon will be granted to the first 250 qualified students on a first-come, first-served basis.

UWF VetSuccess on Campus

The VetSuccess on Campus program is a collaborative effort between the U.S. Department of Veterans Affairs (VA) and the University of West Florida (UWF). The goal of the program is to help military Veterans and eligible dependents of military Veterans make a smooth transition to university life and to successfully complete their educational goals. Our VetSuccess Coordinator can assist all students with all things related to VA.

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 deferment 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>
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<tr>
<th>Semester (Year)</th>
<th>1 Term</th>
<th>2 Term</th>
<th>3 Term</th>
<th>4 Term</th>
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<tbody>
<tr>
<td>Fall 2016</td>
<td>Nov 19</td>
<td>Sep 20</td>
<td>Nov 10</td>
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<tr>
<td>Spring 2017</td>
<td>Apr 8</td>
<td>Feb 7</td>
<td>Apr 4</td>
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<tr>
<td>Summer 2017</td>
<td>Jun 14</td>
<td>Jun 14</td>
<td>Jul 29</td>
<td>Jul 13</td>
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</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 (http://catalog.uwf.edu/graduate/academicpolicies/general/#academicstanding) 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 U.S. 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
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.

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<tr>
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<tbody>
<tr>
<td>Fall 2016</td>
<td>8/22-12/02</td>
<td>8/22-10/07</td>
<td>10/12-12/02</td>
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<td>1/09-02/24</td>
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<tr>
<td>Summer 2017</td>
<td>05/015-08/11</td>
<td>05/15-06/27</td>
<td>06/29-08/11</td>
<td>06/14-08/11</td>
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**Congressman C. W. "Bill" Young Veteran Tuition Waiver Program**

Honorary discharge 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 (DD214) and documentation of residence 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.

The form to request this waiver can be found by going to this website: http://uwf.edu/media/university-of-west-florida/offices/financial-services/forms/Veteran-Out-of-State-Fee-Waiver.pdf.

Completed applications, along with the requested documentation must be submitted to the Cashier's office. Assistance in retrieving lost DD214s can be found by visiting the Military and Veterans Resource Center.
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 Legislature, Florida Board of Governors, 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.

2016-2017 Tuition and Fees


Payment of Fees

Fees may be paid by any of the following methods:

- **Tuition and fees, housing, mandatory meal plans and the University ID card may be paid online using your checking or savings account through MyUWF (https://my.uwf.edu). 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 (https://my.uwf.edu). 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 Customers BankMobile VIBE account will also be assessed a convenience fee.**

- **Students may elect to pay with a Foreign Currency online through MyUWF (https://my.uwf.edu). WesternUnion, a respected leader in the realm of currency exchange, provides a mechanism to facilitate foreign currency payments.**

- **A parent portal is 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, the University ID card 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 Student Financial Services FAQs (http://uwf.edu/offices/financial-services/FAQs/student-financial-services-faq). 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, including loans and scholarships, that are complete prior to the beginning of each term will be disbursed by the Financial Aid office and refunded 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 BankMobile (UWF’s contracted refund management partner) to be refunded 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 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 health center charges.

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
BankMobile for refunding according to the student's refund preference.

Refund Selection Kit —DO NOT DISCARD

All degree seeking students will receive a Refund Selection Kit 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 University. Address changes can be made in MyUWF (https://
my.uwf.edu).

The packet includes a Personal Code. Students can use the
alphanumeric Personal Code to begin refund preference selection.
Once logged into the system via the website, the following options are
available for refunds:

1. Electronic deposit to another account, or
2. Electronic deposit to a BankMobile VIBE account.

Note: If students choose the BankMobile VIBE account they will
be sent the BankMobile VIBE debit card. Students who choose the
Electronic deposit to another account and plan to subsequently
transfer funds to a foreign financial institution must contact the Student
Accounts Office.

UWF Payment Plan

Eligible students may pay current term tuition and fees, housing,
mandatory meal plan, and the University ID card with a UWF payment
plan. All of these charges will automatically be included in the plan.
You cannot choose to exclude some charges. Eligible charges will be
reduced by the amount of available financial aid, private scholarships,
private loans and third party billing arrangements. The University
offers payment plans with a variable number of installment payments
dependent on the month of enrollment in the plan. Enrollment in
the plan is completed through your CashNet account. Select the
UWF Payment Plan link in CashNet. 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 UWF Payment Plan. A $15
service charge will be added to all payment plans. Contact the Student
Accounts Office at (850) 474-3037 for 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 agency
payment 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 the agency payment 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, 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 do so will result in the assessment of
a $100 late payment fee or cancellation of classes. Refer to Student
Financial Services (http://uwf.edu/offices/financial-services/student-
financial-services/student-accounts-cashiers) for more information.

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 fee and may receive a tuition and fees waiver. 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. No academic credit
will be awarded in classes for which fees are waived. Refer to Senior
Citizen Tuition Fee Waivers (http://uwf.edu/offices/registrar/tuition--
fees/senior-citizen-tuition-waiver) for detailed policies and procedures.
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. Refer to Student Financial Services (http://uwf.edu/offices/financial-services/student-financial-services/student-accounts-cashiers) for more information and waiver form.

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. Certain self-funded degree programs are eligible subject to availability. Refer to State Employee Tuition Fee Waivers (http://uwf.edu/offices/registrar/tuition--fees/state-employee-tuition-waiver) for detailed policies and procedures.

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. Refer to Student Financial Services (http://uwf.edu/offices/financial-services/student-financial-services/student-accounts-cashiers) for more information and waiver form.

Congressman C.W. "Bill" Young Veteran Tuition Waiver Program
A person who is an honorably discharged veteran of the United States Armed Forces, the United States Reserve Forces, or the National Guard; or entitled to and uses educational assistance provided by the United States Department of Veterans Affairs for a term beginning after July 1, 2015 and who physically resides 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. Other persons must present documentation as proof that they physically reside in Florida. Refer to C. W. Bill Young Out of State Waiver (http://uwf.edu/offices/military-veteran-resource-center/scholarships--waivers/cw-young-veterans-out-of-state-fee-waiver) for waiver form.

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, summer) without payment of tuition or mandatory fees. Employees may also assign up to six of their undergraduate credit hours or up to three graduate credit hours to their dependents. 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. 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. Certain self-funded programs are eligible subject to the availability of funds. Refer to Human Resources (http://uwf.edu/offices/human-resources) for more information.

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

Third Party Billings
Deferment 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 at 850-474-3038 or stuacct@uwf.edu.

Appeal for Late Fee Assessments and Refunds

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

All appeals must be submitted in writing or by email utilizing the Fee Appeal Form (http://uwf.edu/media/university-of-west-florida/offices/financial-services/forms/Fee-Appeal-Form.pdf). The appeal form with supporting documentation should be submitted to Student Accounts, Bldg 20E, or emailed to feeappeal@uwf.edu. Failure to provide adequate supporting documentation will result in a delay of the appeal. An appeal for refund of tuition and fees requires that the student be officially withdrawn from the course (or courses) prior to being reviewed by the Fee Appeals Committee.

Appeals are reviewed for the existence of extenuating circumstances that may have prevented the student from meeting his/her obligations in a timely fashion. The following circumstances may warrant approval of the appeal; however success of the appeal rests on the facts in each individual case:

1. Call to or enlisted in active duty military service within the semester.
2. Death of the student or death in the immediate family (parent, spouse, child, sibling).
3. 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.
4. Administrative/University error.

Circumstances generally not sufficient to support an appeal include, but are not limited to:

1. Not being aware of registration and/or tuition due dates.
2. Insufficient financial aid or financial hardship.
3. Lack of familiarity with UWF system or procedures.
4. Withdrawal from a class (or classes) to avoid failure or low grades.
5. Withdrawal from a class (or classes) because of dissatisfaction with an instructor.

Note: Withdrawal appeals (academic or medical) that are submitted to the Registrar's or Dean of Students Offices at the end of the semester, or withdrawals approved retroactively for a previous semester, will generally not be considered for a refund of tuition.

The submission of a fee appeal does not guarantee approval. In addition, the submission of an appeal does not extend the due date for outstanding tuition and fees or other charges while awaiting a decision by the Fee Appeals Committee. Charges not paid by the due date will be assessed the late payment fee.

If the appeal is denied, the decision of the Fee Appeals Committee may be appealed first to the University Controller, then to the Vice President for the Finance and Administration Division, as designee of the President, who has final authority within the University.
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
- Florida incorporation
- 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
- Proof of reliance upon Florida sources of support
- 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.
- Qualified beneficiary under the terms of the Florida Pre-Paid College Program. (Undergraduate Students only)
- 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.(Graduate Students only)
• 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. (Graduate Students only)

• 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.

• U.S. citizens living outside the U.S. who are teaching at a Department of Defense Dependent School or in an American International School and who enroll in a graduate level education program which leads to a Florida teaching certificate.

• 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 undergraduate students should contact the Office of Undergraduate Admissions and new graduate students should contact the Graduate School. 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, according to the Federal Income Tax Code (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. 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. 42)

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, Social Sciences and Humanities, College of Business, College of Hal Marcus Science and Engineering, College of Health, and College of Education and 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 STUDENT: A student who currently is not a candidate for a degree or diploma.

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. A student must be in good academic standing in order to graduate.

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.

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 sent 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 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. If reinstatement is approved, and the student fails to achieve a semester GPA of higher than 3.0 within the semester of reinstatement, the student will be suspended from the program.

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. A student must be in good academic standing in order to graduate.

Academic Probation

A student’s cumulative GPA must be at least 3.25 (on a 4.0 scale) for all courses taken at UWF. A grade of “S” (satisfactory) is not considered in the evaluation of academic standing. Students who do not maintain a cumulative UWF GPA of 3.25 are placed on academic probation. Students will be notified of any change to their academic status. 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.

Academic Suspension

Students who do not achieve a cumulative UWF GPA of 3.25 within the probationary semester will be suspended from the program. Written notification will be sent to the student. 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. Students should consult the Ed.D. Program Office for requirements for the Preliminary Examination and continued enrollment in the program.

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. 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. Remitted students are responsible for the degree requirements in effect at the time of reapplication.

If reinstatement is approved, and the student achieves a semester UWF GPA of higher than 3.25, but the cumulative UWF GPA is less than 3.25, the student will continue on academic probation following the probation rules. If reinstatement is approved, and the student fails to achieve a semester GPA of higher than 3.25 within the semester of reinstatement, the student will be suspended from the program.

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. 11) 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 cannot 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. 15) 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 (p. 51) 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 (p. 42) in the Graduation and General Degree Requirements section of this Catalog.

**Doctoral Program**

Refer to the Doctor of Education Degree Requirements (p. 43) 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, or is already enrolled if the disclosure is for purposes of the student’s enrollment or transfer.

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

• Degree(s) earned at UWF

The information listed below has been designated by the University asdirectory 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

• Degree(s) earned at UWF

The information listed below has been designated by the University asdirectory 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 on line 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 on 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 "G" (deferred) will be given until the final thesis has been approved by the Graduate School and submitted to ProQuest.

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/Doctoral
All coursework (including transferred credit) must be completed within seven years from the date of admission to UWF. The department may recommend that UWF and transferred courses which are older than the seven 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.

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.

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: http://uwf.edu/president/policies/ or http://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 that 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, http://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 requirement substitution policy, contact the college dean of the program.

Registration Appeals

The Office of the Registrar reviews appeals related to late registration and schedule adjustments (drop/add). Contact: University Registrar, Building 18.

Other Appeals

Other appeal processes, including those listed below can be found at the University Appeals Process webpage (http://uwf.edu/appeals).

- Academic probation or suspension appeals (http://uwf.edu/trustees/procedures/documents/UWFREG3.008AcadProbSuspReinst_000.pdf)
- Late class or University withdrawal appeal (http://uwf.edu/offices/registrar/registration/withdrawals-)
- Waiver of graduation requirement appeal (http://uwf.edu/offices/dean-of-students/dean-of-students/student-appeals-processes)
- Reinstatement after removal for non-payment appeal (http://uwf.edu/offices/dean-of-students/dean-of-students/student-appeals-processes)
- Fee appeals (http://uwf.edu/offices/dean-of-students/dean-of-students/student-appeals-processes)
- Repeat course surcharge waiver appeal (http://catalog.uwf.edu/graduate/academicpolicies/registration/#repeatcoursesurcharge)
- Discrimination, harassment and retaliation complaints (http://uwf.edu/ohr/EEAA/InvestigationProcedure.pdf)
- Financial aid appeals (satisfactory academic progress and other financial aid related appeals) (http://www.uwf.edu/finaid/appealinfo.cfm)
- Grade appeals (http://catalog.uwf.edu/graduate/academicpolicies/grades/#gradeappeal)
- Housing charges appeals (http://uwf.edu/housing/onlineforms/appealchargeform.cfm)
- Housing Cancellation appeals (http://uwf.edu/housing/onlineforms/appealchargeform.cfm)
- Library fine appeals (http://libguides.uwf.edu/content.php?pid=232298&sid=2346104)
- Parking fine appeals (http://uwf.edu/parking/appealsprocess.cfm)
- Residency for in-state tuition appeals (http://uwf.edu/offices/dean-of-students/dean-of-students/student-appeals-processes)

- Student conduct code appeals (http://uwf.edu/osrr/documents/BOTApprovedStudentCodeofConduct-2010edition.pdf)

Registration Policies and Procedures

Course offering information is available at uwf.edu/registrar.

Academic Advising

The University of West Florida is committed to quality academic advising to assist all students in attaining their educational goals. Graduate students are advised by faculty in their program department. All students are encouraged to seek academic advising on a regular basis.

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

A registration hold 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.), financial responsibility (https://confluence.uwf.edu/display/public/Financial+Responsibility+Statement), administrative discipline, failure to comply with the immunization requirements, etc. A registration hold must be lifted or deleted prior to registration. For more information on viewing holds, click here (https://confluence.uwf.edu/display/public/Viewing+Holds).

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 late registration fee. Students who are not registered for at least one class before the first day of the term will be assessed a nonrefundable 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, six semester hours is considered full-time for all semesters. 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 six 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 Education and 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 Clearing House 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>6 SH or more</td>
<td>6 SH or more</td>
</tr>
<tr>
<td>Half-Time</td>
<td>3-5 SH</td>
<td>3-5 SH</td>
</tr>
<tr>
<td>Less than Half-Time</td>
<td>0-2 SH</td>
<td>0-2 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 students enrollment status is reported based on the level of the non-degree program.

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/Search+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

Master's

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.

Specialist/Doctoral

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. Directed studies are available for approved subject area prefixes and levels and are designated by the last three digits of the course number.

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.

Cancellation of Registration

Students are not permitted to drop their last remaining course using the online portal. Students may cancel registration (last remaining course will be dropped) by notifying the Office of the Registrar in writing prior to the last day of drop/add. Students who cancel their registration 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).

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

Individual Class Withdrawal

After the drop/add period, a student may withdraw from an individual course(s) 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. Refunds are not issued for individual course withdrawals. Students may process withdrawals online through the "Registration Menu" 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 the Registrar in writing before the published deadline(s) in the Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines). 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)

Students should contact the Office of the Registrar to withdraw from their final course (considered an University Withdrawal). 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.

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 late withdrawal 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/offices/registrar/registration/withdrawals-) 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 20. 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 home page (http://uwf.edu/offices/registrar).

**Final Examinations**

Exams are scheduled during the Final Examination week of the fall and spring semesters. It is the student's responsibility to review the final exam schedule and know when/where the exam may occur. The final exam schedule can be found here (https://confluence.uwf.edu/display/public/Final+Exam+Schedule).

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 may occur (see the Academic Calendar) (p. 5). The final exam schedule can be found here (https://confluence.uwf.edu/display/public/Final+Exam+Schedule).

**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 the pre-registered course(s) after the fact. Students should contact the Office of the Registrar for specific details and forms (http://uwf.edu/offices/registrar/tuition--fees/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 for detailed information and forms (http://uwf.edu/offices/registrar/tuition--fees/senior-citizen-tuition-waiver).

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>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2.0</td>
</tr>
<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>
<tr>
<td>P</td>
<td>Pass</td>
<td>**</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>**</td>
</tr>
<tr>
<td>TR</td>
<td>Withdrawal with full refund</td>
<td>**</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
<td>0.0</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawed</td>
<td>**</td>
</tr>
<tr>
<td>X</td>
<td>Audit</td>
<td>**</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 (p. 5)).

Grade Changes
Students graduating from UWF having earned a letter grade of “F, D, D+, C-, C, C+, B-, 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-transcripts/transcripts) on the Office of the 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.

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
Master's
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.

Specialist/Doctoral
A specialist or doctoral program may include up to two courses with a maximum total of six semester hours of directed studies.

Nontraditional Credit - Credit by Proficiency
At the request of a department and with the approval of the College Dean and Graduate School, 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 enrolled at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
- Completion of a minimum of 30 semester hours in an approved program;
- Completion of a minimum of 15 semester hours of coursework at the 6000 level or above;
- Completion of a minimum of 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 master's 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 enrolled 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 enrolled 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 a minimum of 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 a minimum of 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;
- All degree requirements must be completed 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 by another department 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 enrolled 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;
• All degree requirements must be completed within seven years from 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 "Dissertation Template" and the "Structural Guidelines for Traditional Proposals and Dissertations" provided in the "ARGO DOCS 12 STEPS: DISSERTATION SUBMISSION". All dissertations must be produced in electronic format (unless a hard copy is required by the individual department). Deadlines for submission of dissertations to the Graduate School can be found in the "ARGO DOCS 12 STEPS: DISSERTATION SUBMISSION".

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 ProQuest.

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. 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 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**

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 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, 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. 36) in the General Policies section of this Catalog.
Online Campus

The Academic Technology Center is responsible for The University of West Florida (UWF) Online Campus and supports all fully online, blended, and web-conferencing undergraduate and graduate degree and certificate programs. The Online Campus website (uwf.edu/online) provides one-stop shopping to distance learning students for information, advising, admissions procedures, course registration, and helpful tips and links to the same quality services and student support available on all UWF campuses.

Online Campus Programs

The UWF Online Campus offers over 500 online course sections each semester that lead to over 40 different undergraduate and graduate (http://uwf.edu/online/what-we-offer/undergraduate) and graduate (http://uwf.edu/online/what-we-offer/graduate) degrees as well as credit-earning certificate (http://uwf.edu/online/what-we-offer/certificates) programs. Students enrolling in Online Campus programs will experience interactive, personalized strategies for online course delivery as well as access to the Online Campus staff ready to provide additional assistance as needed.

Out-of-State Tuition Waivers

Admittance to any of the Online Campus 40+ degree or certificate programs provides the opportunity to apply for an out-of-state tuition waiver (http://uwf.edu/online/we-are-affordable/waiver-info) that substantially reduces tuition for non-Florida residents. Online Campus tuition and fees (http://uwf.edu/online/we-are-affordable/tuition-fees) include a $15 per credit hour charge for every online course.

Online Campus Student Support

The Online Campus staff can serve as the primary point of contact for fully online student needs and may be contacted for assistance at: online@uwf.edu, 1-888-529-1823 (toll free), or locally at (850) 473-7209. Online students requiring more specialized support services will be transferred internally to the appropriate campus point of contact.
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 (http://uwf.edu/offices/research-sponsored-programs)

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 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/offices/student-organizations/) 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 fifteen sports: men’s teams in baseball, basketball, cross country, football (to debut Fall 2016), 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 85 total GSC championships, including a record 8 conference championships in the 2013-14 season. The Argonauts have won 8 national team championships and 13 individual 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.

Title IX of the Education Amendments of 1972

Title IX of the Education Amendments of 1972 prohibits discrimination based on sex and/or gender in federally funded programs or activities. The University of West Florida does not discriminate on the basis of sex and/or gender in its educational programs or activities. The University’s policies related to Title IX are the Sexual Misconduct and Gender-Based Discrimination Policy (P-14.01-11/13) and the University Policy Prohibiting Discrimination, Harassment and Retaliation (P-13.03 -05/10).

In addition, most University employees (both faculty and staff) are considered Responsible University Employees under the Sexual Misconduct and Gender-Based Discrimination Policy. Responsible University Employees are defined as any employee with the authority to address student-on-student sexual misconduct, or any employee who a student may reasonably perceive to have the authority to address student-on-student sexual misconduct. Responsible University Employees are required to immediately notify the University’s Title IX Coordinator in the event that a student or employee discloses any alleged sexual violence, sexual misconduct, or gender-based discrimination to him or her.

For inquiries concerning the application of Title IX and the federal regulations associated with the law, or to inquire regarding your status or responsibilities as a Responsible University Employee, please contact the Title IX Coordinator (contact information below). Students or employees who believe that they are being discriminated against or harassed on the basis of sex and/or gender can seek advice, assistance, report incidents, and/or file complaints with any of the following individuals:

Karen Rentz, PHR
Director of Equal Opportunity and Compliance
Title IX Coordinator
Building 20E
(850) 474-2175, krentz@uwf.edu

Brandon Frye, Ph.D
Assistant Vice President for Student Affairs/Dean of Students
Deputy Title IX Coordinator
Building 21
(850) 474-2384, bfrye@uwf.edu

Meghan Barter
Associate Athletic Director
Deputy Title IX Coordinator
Building 54
(850) 474-3055, mbarter@uwf.edu

Ruth Davison, Ph.D
Director of Residence Life and Housing
Deputy Title IX Coordinator
Building 19
(850) 474-2463, rdavison@uwf.edu

Additional Information about Title IX can be obtained from the Office for Civil Rights (OCR), Department of Education. OCR’s contact information is available through:

http://www.hhs.gov/ocr/about-us/index.html or 1-800-421-3481
Student Services and Resources

Bookstore – The Official UWF Bookstore
- Official UWF Bookstore
- Online Ordering
- Rental Books
- Bookstore Deferment Program
Refer to information on the UWF Bookstore (http://uwf.edu/offices/business-auxiliary-services/bookstore/uwf-bookstore-overview).

UWF Libraries
Library Information and Campus Locations (http://catalog.uwf.edu/undergraduate/libraries)

Career Services
Internships and Cooperative Education (http://uwf.edu/offices/career-services/students/experiential-learning); Refer to information on Career Services (http://uwf.edu/offices/career-services).

Child Care
Refer to information on Educational Research Center for Child Development (http://uwf.edu/offices/educational-research-center-for-child-development) (ERCCD).

Copy Services
Refer to information on Copy Services (http://uwf.edu/offices/business-auxiliary-services/copy-service/copy-service-overview).

Counseling and Wellness
Counseling and Wellness Services has two areas: Counseling and Psychological Services (http://uwf.edu/offices/counseling-psychological-services) and Wellness Services (http://uwf.edu/offices/wellness-services).

Dining Services
Refer to information on Dining Services (http://uwf.edu/offices/business-auxiliary-services/dining-service/dining-services-overview).

Disability Services for Students
Refer to information on the Student Disability Resource Center (http://uwf.edu/offices/student-disability-resource-center).

Equity, Diversity & International Affairs
- 21st Century Scholars
- Academic Center for Excellence
- TRiO/Student Support Services Program
Refer to information on Equity, Diversity & International Affairs (http://uwf.edu/offices/university-college/departments/equity-diversity).

21st Century Scholars
Refer to information on 21st Century Scholars (http://uwf.edu/offices/cutla/supporting-pages/where-to-send-students-for-help).

Academic Center for Excellence
Refer to information on the Academic Center for Excellence (ACE) (http://uwf.edu/offices/university-college/departments/advising-retention/ace/what-we-do).

TRiO/Student Support Services Program
Refer to information on TRiO Student Support Services (http://uwf.edu/offices/university-college/departments/equity-diversity/trio/what-we-do).

Health Services
Refer to information on Student Health Services (http://uwf.edu/offices/student-health-services).

Housing and Residence Life
Refer to information on Housing and Residence Life (http://uwf.edu/offices/housing-and-residence-life).

ID/Nautilus Card
Refer to information on Nautilus Card (http://uwf.edu/offices/business-auxiliary-services/nautilus-card/nautilus-card-overview).

Information Technology Services

Parking and Transportation Services
- Parking on Campus
- UWF Trolley
- ECAT Bus Service
Refer to information on Parking and Transportation (http://uwf.edu/offices/business-auxiliary-services/parking-and-transportation/parking-on-campus-overview).

Postal Services
Refer to information on UWF Postal Services (http://uwf.edu/offices/business-auxiliary-services/postal-services/postal-services-overview).

Recreation and Sports Services
- The Fitness Center
- Intramural Sports
- Sports Clubs
- Outdoor Adventures
- Aquatic Center
- Recreational Equipment
Refer to information on Recreation and Sports Services (http://uwf.edu/offices/recreation-and-sports-services).
Skills Improvement Centers

- **The Mathematics and Statistics Tutoring Laboratory**
  
  Refer to information on the Mathematics and Statistics Tutoring Laboratory (http://uwf.edu/cse/departments/mathematics-and-statistics/mathstat-tutor-lab).

- **UWF Writing Lab**
  
  Refer to information on the Writing Lab (http://uwf.edu/cassh/support-resources/writing-lab).

University Testing Center

Refer to information on the University Testing Center (http://uwf.edu/offices/testing-center).

Vending Services/Beverage Rights

Refer to information on Vending Services (http://uwf.edu/offices/business-auxiliary-services/vending-services/vending-services-overview).
Graduate Degrees and Areas of Specialization

For information on UNDERGRADUATE DEGREES see the Undergraduate Catalog.

Master’s Degrees

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.A.</td>
<td>Master of Arts</td>
</tr>
<tr>
<td>M.Acc.</td>
<td>Master of Accountancy</td>
</tr>
<tr>
<td>M.B.A.</td>
<td>Master of Business Administration</td>
</tr>
<tr>
<td>M.Ed.</td>
<td>Master of Education</td>
</tr>
<tr>
<td>M.H.A.</td>
<td>Master of Healthcare Administration</td>
</tr>
<tr>
<td>M.P.H.</td>
<td>Master of Public Health</td>
</tr>
<tr>
<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. 52)
  - Professional Accountancy
  - Professional Taxation
- Administration, M.S.A. (p. 53)
  - Acquisition & Contract Administration
  - Human Performance Technology
  - Leadership in Public Service and Nonprofit Administration
  - Public Administration
- Anthropology, M.A. (p. 55)
  - Anthropology
  - Historical Archaeology
- Biology, M.S. (p. 57)
  - Biology (thesis)
  - Biology (non-thesis)
- Business Administration, M.B.A. (p. 58)
  - MBA General
  - Accounting
  - Business Analytics
  - Entrepreneurship
  - Hospitality and Tourism Leadership
- Computer Science, M.S. (p. 64)
  - Computer Science
  - Database Systems
  - Software Engineering
- Criminal Justice, M.S. (p. 66) *
- Curriculum & Instruction, M.Ed. (p. 66)
  - Elementary Education Comprehensive
  - Middle Level Education Comprehensive
  - Reading Instruction
  - Secondary Education Comprehensive
- Educational Leadership, M.Ed. (p. 69)
- English, M.A. (p. 70)
  - Creative Writing
  - Literature
- Environmental Science, M.S. (p. 72)
- Exceptional Student Education, M.A. (p. 73)
  - Exceptional Student Education Comprehensive - Special & Alternative Education
  - Exceptional Student Education Comprehensive - Applied Behavior Analysis
- Geographic Information Science, M.S. (p. 74)
- Health, Leisure & Exercise Science, M.S. (p. 76)
  - Exercise Science
  - Physical Education
- Health Promotion, M.S. (p. 77)
  - Health Promotion and Worksite Wellness
  - Psycho-Social
- Healthcare Administration, M.H.A. (p. 78)
- History, M.A. (p. 78)
  - Early American Studies
  - History
  - Public History
- Information Technology, M.S. (p. 81)
  - Cybersecurity
  - Database Management
- Instructional Design and Technology, M.Ed. (p. 81) *
  - Instructional Design and Technology
  - Technology Leadership
- Mathematics, M.S. (p. 83)
- Nursing, M.S.N. (p. 85)
  - Leadership and Management
  - Education
- Political Science, M.A. (p. 86)
- Psychology, M.A. (p. 87)
  - Applied Experimental
  - Counseling - Licensed Mental Health Counselor
• Industrial-Organizational
• Public Health, M.P.H.  (p. 90)
• Reading Education, M.Ed.  (p. 92)
• Social Work, M.S.W.  (p. 93)

Educational Specialist Degrees
• Curriculum & Instruction, Ed.S.  (p. 94)

Doctoral Degrees
• Curriculum & Instruction, Ed.D.  (p. 95)
  • Administrative and Leadership Studies
  • Curriculum and Assessment
  • Diversity Studies
  • Higher Education
  • Instructional Design and Technology
  • Physical Education and Health
  • Sciences & Social Sciences

*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
  • Human Performance Technology
  • Leadership in Public Service and Nonprofit Administration
  • Public Administration

• Business Administration, M.B.A.
  • General
  • Accounting
  • Business Analytics
  • Entrepreneurship
  • Hospitality and Tourism Management
  • Human Resources Management
  • Information Security Management
  • Supply Chain Logistics Management

• Computer Science, M.S.
  • Database Systems
  • Software Engineering

• Curriculum & Instruction, M.Ed.
  • Elementary Education Comprehensive
  • Middle Level Education Comprehensive
  • Reading Instruction
  • Secondary Education Comprehensive

• Educational Leadership, M.Ed.
  • Educational Leadership Certification

• English, M.A.
  • Creative Writing
  • Literature

• Exceptional Student Education, M.A.
  • Applied Behavioral Analysis Education
  • Special and Alternative Education

• Geographic Information Science, M.S.

• Instructional Technology, M.Ed.
  • Instructional Design and Technology
  • Technology Leadership

• Healthcare Administration, M.H.A.

• 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
• Curriculum & Instruction, Ed.S.

Doctoral Degrees
• Curriculum & Instruction, Ed.D.
  • Curriculum and Assessment
  • Instructional Design and 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:

Business Analytics (p. 60)
Civics Educator Certificate (p. 86)
Data Science (p. 65)
Database Systems (p. 64)
Entrepreneurship (p. 60)
Geographic Information Science - Archaeology (p. 74)
Graduate Business Foundations (p. 61)
Graduate Certificate in GIS (p. 74)
Graduate Geospatial Cybersecurity (p. 64)
Health Communications Leadership (p. 64)
Health Informatics (p. 84)
Health Informatics, Advanced (p. 84)
Health Psychology (p. 90)
Historic Preservation Studies (p. 80)
Hospitality and Tourism Leadership (p. 62)
Human Resources Management (p. 61)
Human Performance Technology (p. 83)
Information Security Management (p. 61)
Instructional Design and Technology (p. 81)
Not-For-Profit Administration (p. 55)
Professional Accountancy (p. 52)
Public Health/Emergency Management (p. 91)
Public Health/Environmental Health (p. 91)
Public Health/Infection Control (p. 92)
Public Health/Occupational Safety and Health (p. 92)
Supply Chain Logistics Management Graduate (p. 60)
Teacher Ready (p. 69)
Virtual Educator (p. 83)

Graduate Certificates Available at the UWF Online Campus:

• Business Analytics (p. 60)
• Civics Educator Certificate (p. 86)
• Data Science (p. 65)
• Database Systems (p. 64)
• Entrepreneurship (p. 60)
• Graduate Certificate in GIS (p. 74)
• Geographic Information Science - Archaeology (p. 74)
• Graduate Business Foundations (p. 61)
• Health Informatics (p. 84)
• Health Informatics, Advanced (p. 84)
• Hospitality and Tourism Leadership (p. 62)
• Human Resources Management (p. 61)
• Information Security Management (p. 61)
• Instructional Design and Technology (p. 81)
• Public Health/Emergency Management (p. 91)
• Public Health/Environmental Health (p. 91)
• Public Health/Infection Control (p. 92)
• Public Health/Occupational Safety and Health (p. 92)
• Supply Chain Logistics Management Graduate (p. 60)
• Teacher Ready (p. 69)
• Virtual Educator (p. 83)

Accounting

The Master of Accountancy (MAcc) is an included program in the University’s accreditation by AACSB International.

The MAcc 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 MAcc 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.

Degree Requirements:
Candidates admitted to the MAcc program are required to complete all courses with a grade of “C” (2.0) or better, and are required to maintain an overall graduate and MAcc GPA of 3.0 (B) or better. Core MAcc courses that are not compliant with the time to degree policy must be reviewed to determine proficiency.

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 MAcc program is gained by demonstrating proficiency in the college’s core curriculum and the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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

A minimum grade of “C” (2.0) is required for all proficiency courses. 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. 10) 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

* The graduate admission test may be waived for the following:
  • Applicants who have earned a BSBA in Accounting from UWF with an undergraduate GPA of 3.25 or higher.
  • Applicants who have passed all four parts of the CPA examination as documented by the National Association of State Board of Accountancy (NASBA).
  • Applicants who have earned a business related master’s degree from an AACSB accredited institute.

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

The Graduate Certificate in Professional Accountancy is not available to students pursuing the Master of Accountancy or the MBA with Accounting emphasis.

Candidates pursuing the Graduate Certificate in Professional Accountancy are required to complete all Certificate courses with a grade of "C" or better, and maintain an overall GPA of 3.0 or better. Normally, transfer courses cannot be used to satisfy requirements for completion of graduate certificates in the College of Business.

The University’s six-year policy on “Time to Degree: Master’s” applies to completion of coursework for graduate certificates in the College of Business.

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 four specializations from which students may choose: Acquisition and Contract Administration, Human Performance Technology, Leadership, and Public 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</th>
<th>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</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 5870</td>
<td>MBA Foundations: e-Business Systems</td>
<td></td>
</tr>
<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Or advisor approved GEB course relating to specialization</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

The Graduate Certificate in Professional Accountancy is available online.

Students pursuing the Graduate Certificate in Professional Accountancy must have completed a bachelor’s degree in accounting, or the equivalent.

The University of West Florida - Graduate
• 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

** The requirement for submission of one of the graduate admission tests will be waived by the department for those students with a minimum of a 3.25 cumulative undergraduate GPA.

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

** Acquisition and Contract Administration Specialization (24 sh)

PAD 5635 Government Contract Law 3
PAD 5855 Acquisition Administration 3
PAD 5862 Government Cost and Pricing Analysis 3
PAD 6227 Public Budgeting 3
PAD 6275 Political Economy of Public Administration 3
6000 level advisor approved Advanced Contract Administration Electives 6
Capstone Experience 3
Choose an advisor approved advanced administration elective, internship or faculty supervised project

Total Hours 24

** 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 (http://catalog.uwf.edu/graduate/instructionaltechnology/#humanperformancetechnologycertificate).

** Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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
• 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

The graduate admission test may be waived for the following:
Applicants must have an undergraduate GPA of 3.0 or higher. The waiver will apply to applicants applying to all Master’s level programs (M. Ed. in IT, MSA in HPT, ETMS) offered by the department.

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

** HPT Specialization (24 sh)

EME 5355 Instructional Design for HPT 3
EME 6357 Instrument Design for Performance Technology 3
EME 6426 HPT Interventions 3
EME 6427 Implementing HPT Interventions 3
EME 6428 Evaluating HPT Interventions 3
EME 6429 Human Performance Improvement 3
EME 6946 Field Experiences in Instructional and Performance Technology (Capstone) 3
Advisor approved electives (choose from the following):
EME 6000 Advanced HPT Electives 6
EDF 6404 Educational Statistics I +
EDF 6481 Educational Research
EDF 6408 Integrated Technology Learning Environments
EME 6414C Web-Based Instructional Tools for Educators
EME 6628 Contract Administration: Large Scale Instructional Technology Systems

Total Hours 24

* Strongly recommended as additional courses for students who plan to pursue a specialist or doctoral degree.

** Leadership in Public Service and Nonprofit Administration Specialization

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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 (minimum score-50th percentile)**:
  • Graduate Record Examination (GRE)
  • Miller Analogies Test (MAT)
  • Graduate Management Admissions Test (GMAT)
• Undergraduate cumulative 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
• List of 3 references
** - The requirement for submission of one of the graduate admissions tests will be waived by the department for those students with a minimum of a 3.25 cumulative undergraduate GPA.

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

See Program Requirements

### Leadership in Public Service and Nonprofit Administration Specialization (24 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5146</td>
<td>The Nonprofit Profession</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5434</td>
<td>Leadership</td>
<td>3</td>
</tr>
<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>PAD 6335</td>
<td>Strategic Management for Public and Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6417</td>
<td>Public Service Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6425</td>
<td>Public Service Conflict Management and Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6946</td>
<td>Administration Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

** Total Hours: 24 **

### 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. 10) 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
- 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

** - The requirement for submission of one of the graduate admissions tests will be waived by the department for those students with a minimum of a 3.25 cumulative undergraduate GPA.

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

See Program Requirements

### Public Administration Specialization (24 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5107</td>
<td>Modern Public Organization Theory</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5605</td>
<td>Administrative Law</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>PAD 6417</td>
<td>Public Service Human Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5434</td>
<td>Leadership</td>
<td>3</td>
</tr>
<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 6041</td>
<td>Public Service Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

** Total Hours: 24 **

### Not-For-Profit Administration Certificate

** Department: Legal Studies, Public Administration and Sport Management**

** 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5146</td>
<td>The Nonprofit Profession</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6335</td>
<td>Strategic Management for Public and Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>GEB 5509</td>
<td>Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit Organizations</td>
<td>1.5</td>
</tr>
<tr>
<td>or EME 6358</td>
<td>Evaluation for MSA Professionals</td>
<td>1.5</td>
</tr>
</tbody>
</table>

** 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 ongoing 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. 10) 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 graduate 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</th>
<th>Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6110</td>
<td>Advanced Method and Theory in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6286</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>
</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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 4211</td>
<td>Combined Archaeological Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>ANG 4824</td>
<td>Terrestrial Archaeological Field Methods</td>
<td>3</td>
</tr>
<tr>
<td>ANG 4835</td>
<td>Maritime Archaeological Field Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**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

**Research**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6971</td>
<td>Anthropology Thesis</td>
<td>3</td>
</tr>
</tbody>
</table>

* 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 2511-L</td>
<td>Biological Anthropology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>ANT 3101</td>
<td>Principles of Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANT 3212</td>
<td>Peoples and Cultures of the World</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following Archaeological Field Methods:

- ANT 4121 Combined Archaeological Field Methods 1-9
- 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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5172</td>
<td>Historical Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 5173</td>
<td>Historical Research Methods in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6110</td>
<td>Advanced Method and Theory in Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Policies, Practices and Archaeology in Historic Preservation</td>
<td>3</td>
</tr>
</tbody>
</table>
requirements for regular admission: described in the Admissions section (p. 10) of the catalog, the in addition to the University graduate admission requirements

Admission Requirements

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

- Biology Specialization (thesis)
- Biology Specialization (non-thesis)

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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 on the old GRE score format, or Verbal score of at least 151 and Quantitative score of at least 152 on the new GRE format.
- 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 area must have satisfactorily completed all upper and lower division core classes (or equivalents) required of UWF biology undergraduates.
- 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.
- Applicants for the thesis track must have a faculty member who has agreed to provide laboratory space and serve as the applicant’s major advisor. Applicants are urged to speak with prospective faculty advisors prior to the application deadline date. Prior to registration, students in the non-thesis tracks must consult with the faculty advisor assigned to oversee the program into which the student has been accepted.

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:
  - BSC 6002L: Contemporary Laboratory Skills 4
  - BSC 6840: Professional Development in Biology 3
  - BSC 6971: Thesis 1-6
  - PCB 5924: Biology Seminar 1
  - PCB 6074: Experimental Design in Biology 3
  - 5000/6000 level advisor approved electives 16
- 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.
Earn a grade of “B-” or better in all courses in the program.
• Minimum scores of 151 Verbal and 152 Quantitative on new GRE required for admission into the program.

Biology Specialization (Non-thesis)
The General Biology non-thesis master’s degree is a flexible graduate degree that allows students to tailor coursework to their specific interests. The degree does not require completion of a thesis. The core required courses provide a foundation in experimental design, lab techniques, and other aspects of graduate-level knowledge. Directed study hours allow for hands-on experiences within a more restricted time frame than a thesis. A large number of elective hours allow students to shape the degree to support their future goals. For example, individuals interested in medical oriented fields can choose electives in Microbiology, Immunology, etc.; while individuals interested in environmental work can choose electives in Ecology, and Environmental Studies.

Minimum scores of 151 Verbal and 152 Quantitative on new GRE required for admission into the program.
Prior to registration the student will meet with the program advisor and discuss a plan for completing the required course work.
The student must complete 36 semester hours of course work composed of the required selections on the list below, and from graduate electives approved by the non-thesis advisor.

Earn a grade of “B-” or better in all courses in the program.

PCB 5924 Biology Seminar 1
BSC 6002L Contemporary Laboratory Skills 4
BSC 6840 Professional Development in Biology 3
PCB 6905 Directed Study 5
5000/6000 level electives 20
PCB 6074 Experimental Design in Biology 3

Total Hours 36

The student must complete an exit interview with the non-thesis advisor, which will include a written and oral summary of a paper from the original literature. The interview and summary of the paper will be used as the assessment of the program.

Business
The Master of Business Administration (M.B.A.) is an included program in the University's accreditation by AACSB International.

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. Students may select from eight areas of emphasis:
• M.B.A. General
• M.B.A. with Accounting emphasis
• M.B.A. with Business Analytics emphasis
• M.B.A. with Entrepreneurship emphasis
• M.B.A. with Hospitality and Tourism Leadership emphasis
• M.B.A. with Human Resources Management emphasis
• M.B.A. with Information Security Management emphasis
• M.B.A. with Supply Chain Logistics Management emphasis

The program of study leading to the M.B.A. degree is a 33-36 semester hour program depending on the area of emphasis.

Admission to the M.B.A. program does not require an undergraduate business degree. However, foundation-level proficiency in the major functional areas of business is required to be successful in the program. For all areas of emphasis, these foundational proficiencies can be completed quickly through accelerated foundations. Approximately one-third of students enter with no previous business course work.

For the Accounting area of emphasis, the equivalent of significant undergraduate course work in Accounting is required in addition to the foundational proficiencies. For the Supply Chain Logistics Management area of emphasis, at least one undergraduate course related to supply chain logistics is required in addition to the foundational proficiencies. For the Human Resources Management area of emphasis, an undergraduate course in human resources management or the MBA foundational proficiency course in human resources management is required.

The M.B.A. program of study is designed to provide both a general view of business and a specialized focus through development of a portfolio and selection of an area of emphasis. Prior to registration, students must choose an industry for their portfolio.

The portfolio provides opportunity to focus in-depth research in an industry selected by the student. Four of the MBA Core courses require projects that are included in the student’s portfolio.

ECP 6705 Advanced Managerial Economics 3
FIN 6406 Financial Management 3
MAR 6815 Marketing Management 3
ISM 6137 Business Analytics 3

During the final semester of the M.B.A. program, students are required to submit their portfolios for review by the program 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. 10) 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 two 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 graduate admission test may be waived for MBA applicants that meet one of the following:
• GPA of at least 3.25 or higher.
• GPA of at least 3.0 and at least three (3) years relevant work experience in an organization (for-profit or non-for-profit) that would normally require an undergraduate degree to obtain or experience at running an entrepreneurial business.
• GPA of at least 2.75 and at least (8) years of relevant work experience with increasing levels of responsibility.
• Passed all four parts of the CPA examination as documented by the National Association of State Board of Accountancy (NASBA).
• Completion of UWF’s Graduate Business Foundation Certificate with a GPA of 3.25 or higher.

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 major functional areas of business: accounting, business communications, business ethics, economics, finance, management, management information systems, marketing, and statistics.

For each of the eight areas of emphasis, candidates are expected to have completed the equivalent of the following UWF BSBA Core courses. (Courses that are not compliant with UWF’s time-to-degree policy must be reviewed to determine proficiency.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</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>
<tr>
<td>GEB 3213</td>
<td>Writing for Business: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ISM 3011</td>
<td>e-Business Systems Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2203</td>
<td>Calculus with Business Applications</td>
<td>3</td>
</tr>
<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

For those candidates who have no prior undergraduate core business course work or those who still need select prerequisites, the College offers Accelerated MBA Foundation Courses that provide a way for candidates to quickly meet the foundational proficiencies needed to begin the MBA Core Courses. The Accelerated MBA Foundation option is 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.

For the Accounting emphasis, in addition to proficiency in the major functional areas of business, candidates are expected to have completed the equivalent of the following UWF courses. (Courses that are not compliant with UWF’s time-to-degree policy must be reviewed to determine proficiency.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 3202</td>
<td>Supply Chain Logistics Management</td>
<td>3</td>
</tr>
<tr>
<td>or TRA 3153</td>
<td>Strategic Transportation Management</td>
<td></td>
</tr>
<tr>
<td>or MAN 3504</td>
<td>Operations Management</td>
<td></td>
</tr>
</tbody>
</table>

For the Human Resources Management emphasis, in addition to proficiency in the major functional areas of business, candidates are expected to have completed the equivalent of one of the following UWF courses. (Courses that are not compliant with UWF’s time-to-degree policy must be reviewed to determine proficiency.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 3301</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>or GEB 5816</td>
<td>MBA Foundations: Principles of Human Resources Management</td>
<td></td>
</tr>
</tbody>
</table>

MBA Core Courses

The M.B.A. Core courses are required for all eight areas of emphasis.

First Level

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5878</td>
<td>Business Process Integration</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5930</td>
<td>Information Resources and Industry Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 6895</td>
<td>Business and Public Policy (For the Business Analytics emphasis, QMB 6305 Quantitative Methods for Business; For Human Resources Management emphasis, MAN 6317 Strategic Issues in Human Resources Management; For Information Security Management emphasis, ISM 6326 Information Systems Auditing and Control)</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6309</td>
<td>Accounting Aspects of Business Policy Determination (For the Accounting emphasis, ACG 6308 Advanced Managerial Accounting)</td>
<td>3</td>
</tr>
</tbody>
</table>
MAN 6156  Management and Organizational Behavior  3
Total Hours  12

Second Level
ECP 6705  Advanced Managerial Economics  3
FIN 6406  Financial Management  3
MAR 6815  Marketing Management  3
ISM 6137  Business Analytics  3
Total Hours  12

Third Level
MAN 6721  Strategic Management and Policy Formulation  3
Total Hours  3

Normally, the College of Business will not accept transfer credits as equivalent to UWF 5000/6000 level business-related courses from institutions not accredited by AACSB International.

MBA General Additional Required Courses
QMB 6305  Quantitative Methods for Business  3
MAN 6511  Operations Management Problems  3
Total Hours  6

Accounting Area of Emphasis Required Courses
ACG 6856  Advanced Auditing  3
ACG 6805  Seminar in Financial Accounting  3
TAX 5105  Corporate Income Tax  3
or BUL 5831  Commercial Law

Students who have previously completed BUL 5831 - Commercial Law, or the equivalent should take TAX 5105 - Corporate Tax.
Total Hours  9

Business Analytics Area of Emphasis Required Courses
ISM 5404  Business Intelligence Applications  3
ISM 5208  Business Data Management  3
ISM 6136  Big Data Mining: A Managerial Perspective  3
Total Hours  9

Note: Business Analytics area of emphasis requires QMB 6305 Quantitative Methods for Business in lieu of MBA Core course ECP 6805 Business Analytics and ISM 6136 Big Data Mining: A Managerial Perspective in lieu of MBA Core course ISM 6026 Management of Information Systems and Technology.

Entrepreneurship Area of Emphasis Required Courses
GEB 5118  New Ventures  3
GEB 5116  Venture Development  3
MAN 5806C  Small Business Management Consulting  3
Total Hours  9

Hospitality and Tourism Leadership Area of Emphasis Required Courses
HMG 5466  Hospitality Financial Analysis & Revenue Optimization  3
HMG 5506  Service Experience Marketing for Hospitality Management  3
HMG 5296  Strategic Leadership in Hospitality Management  3
Total Hours  9

Human Resources Management Area of Emphasis Required Courses
MAN 5331  Compensation and Benefits  3
MAN 5351  Recruitment and Selection  3
MAN 5347  Performance Management  3
Total Hours  9

Note: Human Resources Management area of emphasis requires MAN 6317 Strategic Issues in Human Resources Management in lieu of MBA Core course GEB 6895 Business and Public Policy.

Information Security Management Area of Emphasis Required Courses
ISM 5327  Legal, Ethical, and Human Aspects of Cybersecurity  3
ISM 5328  Cybersecurity Risk Management  3
ISM 5222  Business Data Communication  3
Total Hours  9

Note: Information Security Management area of emphasis requires ISM 6326 Information Security Auditing and Control in lieu of MBA Core class GEB 6895 Business and Public Policy.

Supply Chain Logistics Management Area of Emphasis Required Courses
TRA 5159  Seminar in Supply Chain Logistics Strategy  3
TRA 5206  Logistics Systems and Analytics  3
MAN 5619  Global Logistics Management  3
Total Hours  9

Certificates
Business Analytics Certificate
ISM 5404  Business Intelligence Applications  3
ISM 5208  Business Data Management  3
ISM 6136  Big Data Mining: A Managerial Perspective  3
ISM 6137  Business Analytics  3
Total Hours  12

The Graduate Certificate in Business Analytics is available online.
The Graduate Certificate in Business Analytics is not available to students pursuing the MBA with the Business Analytics emphasis.
Candidates pursuing the Graduate Certificate in Business Analytics are required to complete all Certificate courses with a grade of "C" or better, and maintain an overall GPA of 3.0 or better.
Normally, transfer courses cannot be used to satisfy requirements for completion of graduate certificates in the College of Business.
The University’s six-year policy on “Time to Degree: Master’s” applies to completion of coursework for graduate certificates in 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.

**Prerequisites:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<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 5873</td>
<td>MBA Foundations: Financial Management II</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5874</td>
<td>MBA Foundations: Financial Management III</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>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Core Certificate:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5118</td>
<td>New Ventures</td>
<td>3</td>
</tr>
<tr>
<td>GEB 5116</td>
<td>Venture Development</td>
<td>3</td>
</tr>
<tr>
<td>MAN 5806C</td>
<td>Small Business Management Consulting</td>
<td>3</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5870</td>
<td>MBA Foundations: e-Business Systems</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>
</tbody>
</table>

**Hospitality and Tourism Leadership**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMG 5296</td>
<td>Strategic Leadership in Hospitality Management</td>
<td>3</td>
</tr>
<tr>
<td>HMG 5466</td>
<td>Hospitality Financial Analysis &amp; Revenue Optimization</td>
<td>3</td>
</tr>
<tr>
<td>HMG 5506</td>
<td>Service Experience Marketing for Hospitality Management</td>
<td>3</td>
</tr>
</tbody>
</table>

• Students pursuing the Graduate Certificate in Hospitality and Tourism Leadership must have completed a bachelor’s degree in Hospitality, Tourism, or the equivalent.

• The Graduate Certificate in Hospitality and Tourism Leadership is not available to students pursuing the MBA with Hospitality and Tourism Leadership emphasis.

• Candidates pursuing the Graduate Certificate in Hospitality and Tourism Leadership are required to complete all Certificate courses with a grade of "C" or better, and maintain an overall GPA of 3.0 or better.

• Normally, transfer courses cannot be used to satisfy requirements for completion of graduate certificates in the College of Business.

• The University’s six-year policy on “Time to Degree: Master’s” applies to completion of coursework for graduate certificates in the College of Business.

**Human Resources Management Certificate**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 5331</td>
<td>Compensation and Benefits</td>
<td>3</td>
</tr>
<tr>
<td>MAN 5351</td>
<td>Recruitment and Selection</td>
<td>3</td>
</tr>
<tr>
<td>MAN 6317</td>
<td>Strategic Issues in Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>MAN 5347</td>
<td>Performance Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 12

The Graduate Certificate in Human Resources Management is available online.

The Graduate Certificate in Human Resources Management is not available to students pursuing the MBA with Human Resources Management emphasis.

Candidates pursuing the Graduate Certificate in Human Resources Management are required to complete all Certificate courses with a grade of "C" or better, and maintain an overall GPA of 3.0 or better.

Normally, transfer courses cannot be used to satisfy requirements for completion of graduate certificates in the College of Business.

The University’s six-year policy on “Time to Degree: Master’s” applies to completion of coursework for graduate certificates in the College of Business.

**Information Security Management Certificate**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 5327</td>
<td>Legal, Ethical, and Human Aspects of Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>ISM 5328</td>
<td>Cybersecurity Risk Management</td>
<td>3</td>
</tr>
</tbody>
</table>
Hospitality and Tourism Leadership Certificate

Supply Chain Logistics Management Graduate Certificate

Department: Marketing and Economics

Semester Hours: 9

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 5222</td>
<td>Business Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6326</td>
<td>Information Systems Auditing and Control</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

The Graduate Certificate in Information Security Management is not available online.

The Graduate Certificate in Information Security Management is not available to students pursuing the MBA with the Information Security Management emphasis.

Candidates pursuing the Graduate Certificate in Information Security Management are required to complete all Certificate courses with a grade of "C" or better, and maintain an overall GPA of 3.0 or better.

Normally, transfer courses cannot be used to satisfy requirements for completion of graduate certificates in the College of Business.

The University’s six-year policy on “Time to Degree: Master’s” applies to completion of coursework for graduate certificates in the College of Business.

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, service, citizenship and career services.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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

EDF 6481 Educational Research 3
EDH 5040 The American College Student: Theories and Trends 3
EDH 5070 Assessment Issues in College Student Affairs 3
EDH 6045 Theories of College Student Development 3
EDH 6368 Multicultural Competence in Student Affairs 3
EDH 6369 Capstone Seminar in Student Affairs 3
EDH 6405 Legal Issues in Higher Education 3
EDH 6505 Budgeting, Finance, and Governance in Higher Education 3
EDH 6634 Introduction to College Student Personnel 3
EDH 6948 Internship in Higher Education 6
SDS 6647 Foundations of Counseling Principles for Student Affairs Administration 3

Choose two of the following: 6

COM 6207 Advanced Communication Leadership
COM 6129 Assessing Organizational Dynamics
EDA 7217 Effective Communication Techniques
EDF 6404 Educational Statistics I
INP 6385 Group Dynamics in Organizations
MAN 5116 Management of Diversity
MAN 6156 Management and Organizational Behavior
SDS 6345 Educational and Vocational Guidance

Other appropriate graduate level coursework approved by advisor

Total Hours 42

Communication Arts

The M.A. in Strategic Communication & Leadership is an innovative, interdisciplinary program that provides in-depth knowledge of communication strategies that stimulate ongoing innovation, team-building, empowerment, and service excellence. Students in the program are actively engaged in roundtable discussions, projects, and specialized research about communication challenges and career options that interest them. Classes focus on leadership techniques and actual communication challenges using an integrated approach grounded in research, goal-setting, teamwork, strategy-building, ongoing assessment, and an appreciation for diversity and innovation. The program involves a mix of theory and research, skills training, and current issues in a range of contexts including media, health, public affairs, politics, nonprofits, and computer-mediated environments. The master's degree includes 12 graduate-level courses and an optional four-course certificate in Health Communication Leadership, one of the fields of highest career growth in the country.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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 152 and Analytical Writing score of at least a 4.0
  • Miller Analogies Test (MAT) scaled score of at least 400
  • Graduate Management Admissions Test (GMAT) composite score of at least 400
  • Minimum undergraduate cumulative GPA of 3.2 on a 4-point scale
  • Undergraduate degree in related field
  • Submission of Departmental Admission Application
  • Submission of two letters of reference
  • Submission of current curriculum vita (CV)/ résumé

* The graduate admission test may be waived for the following:

Applicants must have a bachelor's degree in Communications with a GPA of 3.5 or higher on a 4.0 scale or have made at least an A in 9 or more credit hours of graduate coursework in our department either as non-degree seeking students or as a student in other graduate program.

Interested persons should apply to the University through the Graduate School and contact the Department of Communication to request a departmental application.

Foundational Proficiencies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5005</td>
<td>Introduction to Graduate Studies in Communication</td>
</tr>
</tbody>
</table>

Total Hours 1.5

Major Courses

Core Principles

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6207</td>
<td>Advanced Communication Leadership</td>
</tr>
<tr>
<td>COM 6525</td>
<td>Strategic Communication</td>
</tr>
</tbody>
</table>

Total Hours 6

Discovery Methods

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6312</td>
<td>Advanced Communication Research Methods</td>
</tr>
<tr>
<td>JOU 6115</td>
<td>Interviewing and Information Gathering</td>
</tr>
</tbody>
</table>

Total Hours 3

Strategic Applications

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5206</td>
<td>Communication Training</td>
</tr>
<tr>
<td>COM 6129</td>
<td>Assessing Organizational Dynamics</td>
</tr>
<tr>
<td>SPC 6646</td>
<td>Strategic Approaches to Presentational Speaking</td>
</tr>
</tbody>
</table>

Total Hours 9

Strategic Communication Contexts (complete a total of 12 s.h.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5025</td>
<td>Health Communication</td>
</tr>
<tr>
<td>COM 5993</td>
<td>Special Topics in Communication</td>
</tr>
<tr>
<td>COM 6024</td>
<td>Emerging Topics in Health Communication</td>
</tr>
<tr>
<td>COM 6210</td>
<td>Emerging Topics in Nonprofit Organizational Communication</td>
</tr>
<tr>
<td>COM 6625</td>
<td>Emerging Topics in Communication Law and Ethics</td>
</tr>
</tbody>
</table>

Total Hours 12

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

The Computer Science specialization offers a flexible and innovative curriculum that blends theoretical foundations of computer science with state-of-the-art computing technologies. Students starting this specialization typically have an undergraduate degree in Computer Science but may come from another scientific discipline. The program provides students with knowledge and skills in algorithmic programming, software development, and research of computational methods for creating innovative solutions. This specialization offers two focus areas in cybersecurity and data analytics, as well as other advanced topics in Computer Science. The specialization prepares students for doctoral studies and careers in cybersecurity, data analytics, and other computing fields.

The program can be completed face-to-face or fully online. All courses are offered using Elluminate, a synchronous delivery tool, that enables distance students to attend live lectures and facilitates live interaction between the instructor and online students. For distance students to succeed in our hybrid program, it is strongly recommended that they attend lectures synchronously via Elluminate and take advantage of opportunities for interaction with their instructors and peers.

All courses must be completed with a grade of "C" or better.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 6415</td>
<td>Advanced Computer Systems and Networks</td>
<td>3</td>
</tr>
<tr>
<td>COP 6025</td>
<td>Advanced Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COT 5930</td>
<td>Computer Science Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 12 credit hours from:

- Cybersecurity focus:
  - CIS 6394 Digital Forensics
  - CNT 6519 Wireless Network Security

- Data Analytics focus:
  - CAP 5771 Data Mining
  - CAP 6782C Big Data Analytics in the Cloud

- General CS topics:
  - CAP 5600 Introduction to Artificial Intelligence
  - CAP 5701 Computer Graphics and Simulation

5000/6000 level advisor approved electives

Choose one of the following:

- 6 semester hours
  - CIS 6971 Thesis
  - COT 6931 Computer Science Project (normally 3 sh in two consecutive semesters)

<table>
<thead>
<tr>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</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
The Certificate in Data Science combines advanced computer programming and database system architectures with statistical analyses and modeling. This program is designed to address the need for a skill set that includes programming, computational, and analytical skills, all of which is applicable to business, healthcare, as well as many other fields.

**Admission Requirements:**
Participants must have a B.S. degree in computer science, the mathematical sciences, or a related field with a grade point average of 3.0 or higher. Additionally, participants must complete the GRE with at least a 150 score for both verbal and quantitative parts.

**Program Requirements:**
Students admitted to the certificate program must successfully complete the five courses (for a total of 15 semester hours) listed below earning a grade of "C" or better in each course, and secure a combined grade point average of 3.0 or higher.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>STA 5176</td>
<td>Statistical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MAP 5471</td>
<td>Advanced Probability and Inferences</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Students are expected to complete the program in at most 3 semesters.

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<td>STA 5176</td>
<td>Statistical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>MAP 5471</td>
<td>Advanced Probability and Inferences</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Graduate Geospatial Cybersecurity Certificate**

**Department:** Computer Sciences

**Method of Instruction:** Online and Face-to-face

**Semester Hours:** 15
Potential success of each applicant:

In addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of “C” or better in each course, and secure a combined grade point average of 3.0 or higher for the courses required by the certificate.

The certificate is composed of seven courses for a total of 22 semester hours, as shown below.

<table>
<thead>
<tr>
<th>Required Courses (Common Core) (22 hrs):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
</tr>
<tr>
<td>GIS 5050+L</td>
<td>Geographic Information Systems (+Lab)</td>
</tr>
<tr>
<td>CIS 6379</td>
<td>Applied Information Security</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
</tr>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
</tr>
</tbody>
</table>

Total Hours: 22

**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: an internship 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 internship option (Option 1) requires 15 credit hours of required coursework, a 3 credit hour internship, plus an additional 6 credit hours minimum of criminal justice electives and 9 credit hours of criminal justice or noncriminal justice electives. The area paper option (Option 2) requires 15 credit hours of required coursework, a 3 credit hour area paper, plus an additional 6 credit hours minimum of criminal justice electives and 9 credit hours of criminal justice or noncriminal 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 nine hours of unrestricted electives and/or 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. 10) 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 5008</td>
<td>Criminal Justice Theory</td>
</tr>
<tr>
<td>CCJ 6061</td>
<td>Criminological Theory</td>
</tr>
<tr>
<td>CCJ 6704</td>
<td>Research Methodology</td>
</tr>
<tr>
<td>CCJ 6705</td>
<td>Analysis of Quantitative and Qualitative Data</td>
</tr>
</tbody>
</table>

Select One:

- CCJ 5506 | Criminal Justice Administration | 3 |
- CCJ 6745 | Policing and Society | 3 |
- CJC 6021 | Penology | 3 |
- CJL 5521 | Courts and Society | 3 |

One of the following options: 18

Option 1

- CCJ 6946 | Criminal Justice Internship | 3 |
- Two CCJ, CJC, CJE, CJL, CJJ, or DSC Electives | 3 |
- Three Unrestricted Electives | 3 |

Option 2

- CCJ 6910 | Criminal Justice Area Paper | 3 |
- Two CCJ, CJC, CJE, CJL, CJJ, or DSC Electives | 3 |
- Three Unrestricted Electives | 3 |

**Total Hours:** 33

**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, and Secondary Education Comprehensive, students will choose a cognate area in conjunction with an advisor. The M.Ed. in Curriculum and Instruction offers eight pre-approved cognates: Elementary; Middle-level; Secondary; Career & Technical; Instructional Technology; ESOL; Reading Endorsement; and a Professional Training Option. Students pursuing the Professional Training Option must be enrolled in either the Middle Level Education Comprehensive or the Secondary Education Comprehensive Specializations. Course requirements for each cognate are listed below. Students enrolled in the Reading Instruction specialization will not choose a cognate.
Instead, they will complete the coursework listed below for the 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. 10) 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

*** The graduate admission test may be waived for the following:

- Applicants must have an undergraduate GPA of 3.0 or higher from an accredited institution.

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 of Teacher Education and Educational Leadership’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 to the Professional Training Option 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 Department of Teacher Education and Educational Leadership 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 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.

A grade of C or better is required for all coursework to be applied to the degree program.

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.

Required Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6288</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>EDG 6918</td>
<td>Research Practicum (should be taken next-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>9</strong></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 chair. 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.

Required Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6288</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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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</tr>
<tr>
<td>EDG 6918</td>
<td>Research Practicum (should be taken next-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>9</strong></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 chair. 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.

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. 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total 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 Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</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>
<tr>
<td>RED 6060</td>
<td>Foundations of Middle and Secondary Literacy</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>RED 6240</td>
<td>Differentiating Instruction</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Identifying and Preventing Reading Difficulties</td>
<td>3</td>
</tr>
<tr>
<td>RED 6747</td>
<td>Research and Trends in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6866</td>
<td>Reading Practicum</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

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.

Required Core
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>3</strong></td>
</tr>
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Educational Investigative Sequence
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
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</thead>
<tbody>
<tr>
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<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>
<td>EDG 6918</td>
<td>Research Practicum (should be taken next-to-last semester)</td>
<td>3</td>
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<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>9</strong></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 chair. 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, 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 chair.

Career and Technical Cognate
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
</tr>
</thead>
<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>
<tr>
<td>ECW 6561</td>
<td>Selection and Guidance of Career and Technical Studies</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECT 6669</td>
<td>Trends and Issues in Career and Technical Education</td>
<td>3</td>
</tr>
<tr>
<td>ECW 6695</td>
<td>School Involvement and Community Relations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Elementary Education Cognate
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Choose four from the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EME 5316</td>
<td>Instructional Technology Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5345</td>
<td>Teaching Pupils to be Effective Writers</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5468</td>
<td>Literature for Children and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>MAE 6115C</td>
<td>Teaching Mathematics in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SCE 6017</td>
<td>Science Instruction in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5085</td>
<td>ESOL Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>Advisor approved elective</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

ESOL Cognate
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSL 5142</td>
<td>ESOL Curriculum and Materials Development</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5250</td>
<td>Applied Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5345</td>
<td>Methods of Teaching ESOL</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5440</td>
<td>Testing and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>
Reading Endorsement Cognate

The Department of Teacher Education and Educational Leadership 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 Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 5515</td>
<td>Classroom Reading Assessments (Spring)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6060</td>
<td>Foundations of Middle and Secondary Literacy (Fall)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Early Literacy (Fall)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6240</td>
<td>Differentiating Instruction (Spring)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Secondary Education Cognate

Choose four of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 5316</td>
<td>Instructional Technology Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5468</td>
<td>Literature for Children and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>LSF 5308</td>
<td>Foundations of Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>MAE 6361</td>
<td>Teaching Mathematics in Middle Level and Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>SCE 5265</td>
<td>Science Instruction in the Middle and Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>SSE 6326</td>
<td>Teaching Social Studies in Middle and Secondary Level Education</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5085</td>
<td>ESOL Principles and Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

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: $4800.00 (Tuition only, no fees)

Contact: teacherready.org / 850-898-3949 / TeacherReady@StuderEducation.com (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 State 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

The Educational Leadership Certification Program, approved by the Florida Department of Education, is designed for students who have a minimum of three years of teaching experience and 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 Program 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. The Educational Leadership Certification Program has a field experience in each course. Students must have access to and work with an administrator in a school or educational setting.

**Admission Requirements for Certification Specialization**

In addition to the University graduate admission requirements described in the Admissions section (p. 10) of the catalog, the applicant must meet the following minimum departmental admission requirements for **provisional** admission:

- Hold a valid professional teaching certification
- Have a minimum of three years of teaching experience
- 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

All approvals for admission to the Department of Teacher Education and Educational boards 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 Education and Professional Studies.

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**

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

**Major Requirements**

A grade of C or better is required for all coursework to be applied to the degree program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>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>6</td>
</tr>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5250</td>
<td>Principles of Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6285</td>
<td>Data Driven Decisions Using Standardized Student Achievement Data</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6105</td>
<td>Human Relations and Communication in Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>33</td>
</tr>
</tbody>
</table>

**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. 10) 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 GRE percentile performance under the old testing platform
  - 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 graduate level work 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 non-thesis track. Students petitioning the department chair for permission to pursue 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.
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, paleoecology, 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. 10) 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)
- 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 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

Choose one track:

Thesis Track

The thesis track entails a total of 30 sh (including the courses in the Environmental Science core), of which 15 sh must be at the 6000 level and may include up to 6 sh of thesis. The remaining hours must be at the 5000 level or higher.

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.
advisors in consultation with the student and the student’s graduate committee.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 6118</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>EVS 6940</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6905</td>
<td>Directed Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: Advisor-approved graduate course work 21

**Total Hours: 27**

### 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. 10) 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 Department of Teacher Education and Educational Leadership’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 admitted conditionally.

*** Graduate admission test may be waived for the following:

- 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 CAEP accredited Professional Education Unit but is not an initial certification program. 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 the option of selecting one of two specializations:

- Special & Alternative Education Specialization
- Applied Behavior Analysis Specialization

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
- Exceptional and Alternative Educational Studies
- Applied Behavior Analysis
- Applied Behavior Analysis Intensive

Before graduating, students enrolled in the Special & Alternative Education Specialization 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.

#### Applied Behavior Analysis Specialization (36–42 hours)

#### Applied Behavior Analysis Cognate Courses (36 hours)

**Required Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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></td>
<td>Perspective (An approved ABA elective may be substituted for this course)</td>
<td></td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6288</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 12**

#### Educational Investigative Sequence Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours: 6**

#### Applied Behavior Analysis Cognate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6223</td>
<td>Positive Behavioral Change and System Support in Educational Settings</td>
<td>3</td>
</tr>
</tbody>
</table>
Special Education Cognate Courses

- EDG 6225: Foundations of Applied Behavior Analysis in Education (3 credit hours)
- EDG 6226: Behavioral Assessments, Interventions, and Outcomes in Education (3 credit hours)
- EDG 6557: Ethics in Applied Behavior Analysis (3 credit hours)
- EDF 7437: Measurement and Single Case Design (3 credit hours)
- EDF 7944: Advanced Single Case Design in Applied Settings (3 credit hours)

Total Hours: 18

Intensive Applied Behavior Analysis Cognate (40-42 hours)

Required Core Courses

- EDF 6691: Issues in Teacher Education: A Bio-Psycho-Social Perspective (EDA 6557 may be substituted for this course) (3 credit hours)
- EEX 6051: Exceptionalities (3 credit hours)
- EDG 6288: Educational Assessment (3 credit hours)
- EDG 6415: Issues in Classroom Management (3 credit hours)

Total Hours: 12

Educational Investigative Sequence Courses

- EDG 5366: Investigative Strategies and Empirical Foundations in Learning and Development (3 credit hours)

Total Hours: 3

Intensive Applied Behavior Analysis Cognate Courses

- EDF 6223: Positive Behavioral Change and System Support in Educational Settings (3 credit hours)
- EDF 6225: Foundations of Applied Behavior Analysis in Education (3 credit hours)
- EDF 6226: Behavioral Assessments, Interventions, and Outcomes in Education (3 credit hours)
- EDF 7437: Measurement and Single Case Design (3 credit hours)
- EDF 7944: Advanced Single Case Design in Applied Settings (3 credit hours)
- EDF 8227: Concepts of Applied Behavior Analysis (3 credit hours)
- EDF 8943: Supervised Experience in Single Case Design (6 credit hours)

Total Hours: 27

Special & Alternative Education Specialization (36-42 hours)

Required Core Courses

- EDF 6691: Issues in Teacher Education: A Bio-Psycho-Social Perspective (EDA 6557 may be substituted for this course) (3 credit hours)
- EEX 6051: Exceptionalities (3 credit hours)
- EDG 6415: Issues in Classroom Management (3 credit hours)
- EDG 6288: Educational Assessment (3 credit hours)

Total Hours: 12

Educational Investigative Sequence Courses

- EDG 5366: Investigative Strategies and Empirical Foundations in Learning and Development (3 credit hours)

Total Hours: 3

Special Education Cognate Courses

- EDG 6415: Issues in Classroom Management (3 credit hours)
- EEX 6035: Best Practices in Teaching Challenging Students (3 credit hours)
- Advisor Approved Electives (6 credit hours)
- EDG 6916: Action Research (3 credit hours)

Total Hours: 15

Alternative Education Cognate Courses

- EEX 5283: Employment, Social, and Personal Skill Building for Exceptional Students (3 credit hours)
- EEX 6035: Best Practices in Teaching Challenging Students (3 credit hours)
- EDG 6415: Issues in Classroom Management (3 credit hours)
- Advisor Approved Electives (6 credit hours)

Total Hours: 15

Geographic Information Science Administration

The MS in GIS Administration degree program requires a minimum of 36 credit hours, including 12 credit hours of business courses and 24 credit hours of GIS coursework. It has only one track.

Admission Requirements

In addition to the University graduate admission requirements, the department bases decisions for regular admission on a holistic review of credentials in which the criteria listed below are used to assess the potential success of each applicant.

- Recommended minimum score at the 50th percentile for the verbal reasoning section and the 40th percentile for the quantitative reasoning section of the Graduate Record Examination (GRE).
- Recommended minimum undergraduate cumulative GPA of 3.0 on a 4 point scale.
- Recommended minimum senior year/major GPA of 3.0 on a 4 point scale.
- Submission of letter of intent describing work experience and reasons for pursuing the program, including how the degree relates to career goals.
- Submission of a completed GIS capstone intention form.
- Submission of three recommendation forms by individuals familiar with the student’s ability to succeed in a graduate program.

Geographic Information Science Administration

Foundational Proficiencies (15 sh)

- GIS 3015+L: Cartographic Skills (+Lab) (4 credit hours)
- GIS 4035+L: Photo Interpretation and Remote Sensing (+Lab) (4 credit hours)
- GIS 4043+L: Geographic Information Systems (+Lab) (4 credit hours)
- GIS 5100: Applications in Geographic Information Systems (3 credit hours)

Total Hours: 15

Management Core (12 sh)

- EME 6358: Evaluation for MSA Professionals (1.5 credit hours)
- GEB 5871: MBA Foundations: Managerial Economics (1.5 credit hours)
- GEB 5872: MBA Foundations: Financial Management I (1.5 credit hours)
- GEB 5875: MBA Foundations: Management Skills and Applications (1.5 credit hours)
- MAN 6156: Management and Organizational Behavior (3 credit hours)

Choose two from the following:

- GEB 5870: MBA Foundations: e-Business Systems (1.5 credit hours)
- GEB 5876: MBA Foundations: Marketing Management (1.5 credit hours)

Or advisor approved GEB Course relating to specialization

Total Hours: 12

Geographic Information Science (GIS) (24 sh)

- GIS 5103: GIS Programming (3 credit hours)
- GIS 5935: Special Topics in Geographic Science (3 credit hours)
- GIS 6005: Communicating GIS (3 credit hours)
- GIS 6110: Advanced Topics in Geographic Information Science (3 credit hours)
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 available: 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>Required Course</th>
<th>Total Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 3015 Cartographic Skills</td>
<td>3</td>
</tr>
<tr>
<td>or GIS 5007 Computer Cartography</td>
<td></td>
</tr>
<tr>
<td>GIS 3015L Cartographic Skills Lab</td>
<td></td>
</tr>
<tr>
<td>or GIS 5007L Computer Cartography Lab</td>
<td></td>
</tr>
<tr>
<td>GIS 4035 Photo Interpretation and Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GIS 4035L Photo Interpretation and Remote Sensing Lab</td>
<td></td>
</tr>
<tr>
<td>GIS 4043 Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GIS 4043L GIS Laboratory</td>
<td></td>
</tr>
<tr>
<td>Required Course</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5103 GIS Programming</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5009 Applications in Remote Sensing</td>
<td></td>
</tr>
<tr>
<td>GIS 5100 Applications in Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GIS 5265 GIS Applications for Archaeology (Offered only in online Certificate program)</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 24

Graduate Geographic Information Science - Archaeology Certificate

Department: Environmental Science
Veterans Affairs (VA) Certified? Yes
Semester Hours: 12

This certificate program is designed to teach students, from novice to 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. Geographic Information Systems is a computerized system that allows users to work with, interrelate, and analyze virtually all forms of spatial data for decision making. 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. The archaeology program utilizes ArcGIS to create, visualize, query, and model archaeological, historical and anthropological data. Additionally, the program is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects while recognizing the ethical issues associated with the management of sensitive data.
courses and GIS internship have been carefully combined to reflect the real-world requirements needed for those interested in using GIS in the fields of archaeology and anthropology. This program is offered completely online as part of the Online GIS Certificate (http://uwf.edu/gis/courses/onlineCertificate.cfm) program.

Students who successfully complete the 24-credit program (including foundational proficiencies) with a 3.0 overall GPA will be awarded a certificate in Geographic Information Science.

**Admission Requirements**

Those interested in obtaining a GIS Certificate must apply and be approved by the GIS Certificate Committee prior to enrollment.

- Submission of Online GIS Certificate Application.
- 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.

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 an upper level undergraduate class from a regionally accredited U.S. university.

**Course Requirements**

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:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 4006</td>
<td>Computer Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GIS 4006L</td>
<td>Computer Cartography Lab</td>
<td>1</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIS 5007</td>
<td>Computer Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5007L</td>
<td>Computer Cartography Lab</td>
<td>1</td>
</tr>
<tr>
<td>GIS 4043-L</td>
<td>Geographic Information Systems (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIS 5050-L</td>
<td>Geographic Information Systems (+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>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GIS 5027-L</td>
<td>Aerial Photography and Remote Sensing (+Lab)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5265</td>
<td>GIS Applications for Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5938</td>
<td>Special Topics in GIS for Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Choose from the following</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GIS 5945</td>
<td>GIS Internship</td>
<td></td>
</tr>
<tr>
<td>or GIS 5905</td>
<td></td>
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</tr>
</tbody>
</table>

**Total Hours** 12

**Exercise Science Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6535</td>
<td>Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6595</td>
<td>Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>APK 6111C</td>
<td>Advanced Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>APK 5116C</td>
<td>Applied Physiology in Muscular Development</td>
<td>3</td>
</tr>
<tr>
<td>APK 6127C</td>
<td>Clinical Exercise Testing and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>APK 5204</td>
<td>Applied Motor Learning/Control in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>APK 5601</td>
<td>Preventative Health in the Aging Population</td>
<td>3</td>
</tr>
<tr>
<td>APK 5407</td>
<td>Elite Performance in Sports</td>
<td>3</td>
</tr>
<tr>
<td>APK 6167C</td>
<td>Advanced Human Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>APK 6226</td>
<td>Analysis of Human Movement</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 30

**Required Statistics Courses**

Choose one of the following: 3

- STA 5166 Special Topics in Statistics
- STA 5176 Statistical Modeling

**Thesis, Internship, or Research Track**

Students will choose one of the following tracks.

**Thesis Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours** 6

**Internship Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6940</td>
<td>Internship (Must meet ACSM Clinical Experience Guidelines)</td>
<td>6</td>
</tr>
</tbody>
</table>
Physical Education (33 sh)

degree requirements listed below.

In addition to general University requirements, students seeking the M.S. in Health, Leisure, and Exercise Science must meet the

Degree Requirements

In addition to general University requirements, students seeking the M.S. in Health, Leisure, and Exercise Science must meet the

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. 10) 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
  - Evidence of appropriate teacher certifications
  - Work Experience as reflected in a résumé

Electives are carefully chosen by the student in consultation with an advisor. 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. 10) 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
  - 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. Students in Health
Promotion and Worksite Wellness should have an undergraduate course in exercise science.

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 6226 Current Issues in Worksite Wellness 3
APPLIED SKILLS TO IMPROVE OPERATIONS, QUALITY OF CARE, AFFORDABILITY, AND EARLY HEALTHCARE CAREERISTS TO USE EVIDENCE-BASED STRATEGIES AND IN THE HEALTHCARE INDUSTRY. THE PROGRAM STRESSES TO DEVELOP ENGAGED, QUALIFIED INDIVIDUALS FOR VARIOUS ADMINISTRATIVE AND LEADERSHIP POSITIONS.

THE MASTER OF HEALTHCARE ADMINISTRATION IS DESIGNED TO PREPARE HEALTHCARE ADMINISTRATION

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 6587</td>
<td>Health Education Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>39</strong></td>
</tr>
</tbody>
</table>

**Psycho-Social Specialization**

Choose 21 sh from the courses listed below with at least three courses at the 6000 level:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APK 6111C</td>
<td>Advanced Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6922</td>
<td>Field Experience</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6940</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6521</td>
<td>Critical Analysis of Health</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6342</td>
<td>Human Resources in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5552</td>
<td>Communicable and Degenerative Diseases</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6135</td>
<td>Health Guidance and Cultural Competency</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6206</td>
<td>Health Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6576</td>
<td>Nutrition Across the Life Cycle</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6666</td>
<td>Health Education and Interactive Technology</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6667</td>
<td>Social Marketing in Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6905</td>
<td>Directed Study</td>
<td>3</td>
</tr>
<tr>
<td>MAN 5116</td>
<td>Management of Diversity</td>
<td>3</td>
</tr>
<tr>
<td>APK 6127C</td>
<td>Clinical Exercise Testing and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5355</td>
<td>Fundamentals of Occupational Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>APK 6167C</td>
<td>Advanced Human Nutrition and Metabolism</td>
<td>3</td>
</tr>
</tbody>
</table>

**Healthcare Administration**

The Master of Healthcare Administration is designed to prepare qualified individuals for various administrative and leadership positions in the healthcare industry. The program strives to develop engaged, early healthcare careerists to use evidence-based strategies and applied skills to improve operations, quality of care, affordability, and access. The MHA program includes instruction in administration, healthcare financial accounting, health economics, human resources, systems operation, quality improvement, organizational behavior and health policy. Instruction embraces ethical conduct and professionalism, diversity and inclusion, practitioner involvement and team-based learning, and faculty informed practice through research and service to the community.

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

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (http://catalog.uwf.edu/graduate/admissions/admissionpolicies) 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 Letters of Recommendation

**Healthcare Administration**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<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 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td>1.5</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6206</td>
<td>Health Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5438</td>
<td>Business Analysis and Decision Making in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6175</td>
<td>Healthcare Finance</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6425</td>
<td>Legal Fundamentals of Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6197</td>
<td>Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6752</td>
<td>Quantitative Foundations and Data Analysis for Health Admin</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6707</td>
<td>Current Issues in Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6436</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6103</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6342</td>
<td>Human Resources in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6944</td>
<td>Internship in Health Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

**History**

The M.A. in History offers three specializations. The Program in Early American Studies is interdisciplinary, and offers either a thesis or research paper. The traditional history degree offers 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. 10) 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.
  - Miller Analogies Test (MAT) scaled score of at least 415
- Submission of letter of intent
- Submission of writing sample (undergraduate research paper preferred)
- 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 GPA for all courses in the program. The thesis, research paper, or internship advisor will 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 3 of the 4 required core courses (Colonial America, American Revolution, Early Republic, Transformations of America) as well as the Graduate Methods course

**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 6 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5059</td>
<td>Graduate Methods</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6116</td>
<td>Colonial America</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6137</td>
<td>Revolutionary America</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6149</td>
<td>Transformations of America</td>
<td>3</td>
</tr>
<tr>
<td>Plan A</td>
<td>choose 6 hours or Plan B choose 9 hours</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>from the History electives listed below</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or from those approved by your advisor</td>
<td></td>
</tr>
<tr>
<td>HIS 6285</td>
<td>Maritime History</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6347</td>
<td>Materials Culture</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6696</td>
<td>Seafaring in North America</td>
<td>3</td>
</tr>
<tr>
<td>Choose 6</td>
<td>from approved outside courses listed below</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMG 5137</td>
<td>Nautical Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>AMG 5154</td>
<td>Spanish Florida in Anthropological</td>
<td>3</td>
</tr>
<tr>
<td>AMG 5157</td>
<td>Pre-Columbian Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>AMG 5172</td>
<td>Historical Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>AMG 5173</td>
<td>Historical Research Methods in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>AMG 6196</td>
<td>Policies, Practices and Archaeology in</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>AML 6455</td>
<td>Topics in American Literature</td>
<td>3</td>
</tr>
<tr>
<td>POS 6045</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POT 5207</td>
<td>American Political Thought</td>
<td>3</td>
</tr>
<tr>
<td>POS SXXX</td>
<td>The Founders' Constitution</td>
<td>3</td>
</tr>
<tr>
<td>POS 5905</td>
<td>Federalists and Antifederalists</td>
<td>3</td>
</tr>
</tbody>
</table>
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
- HIS 6911 Master's Research: 3

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 Requirement</th>
<th>Level</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6055 Public History Methodology</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5059 Graduate Methods</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level European History elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level American History elective</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level Latin American/African/Asian/Ethnic elective</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

Internship

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Level</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6056 Graduate History Practicum</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 6

Applied History/Non-History Electives

Choose three or four of the following:

- AMH 6347 Materials Culture
- HIS 5084 Issues in Historic Preservation
- HIS 5077 Oral and Community History
- HIS 5087 Advanced Museology
- HIS 5515 History of Architecture
- HIS 6083 Historic and Heritage Preservation Seminar
- Approved 5000/6000 level Applied History Elective

Choose one or two of the following:

- ANG 5137 Nautical Archaeology Seminar
- ANG 5172 Historical Archaeology Seminar
- ANG 5173 Historical Research Methods in Archaeology
- ANG 5181 Geographic Information Systems in Archaeology
- ANG 6196 Policies, Practices and Archaeology in Historic Preservation
- ARH 5836 Museum and Gallery Studies
- EVR 5413 Environmental Aspects of Urban Growth
- EVR 5435 Urban Planning
- EVR 5824 Environmental Impact Assessment
- EVR 6930 Special Topics in Environmental Sciences
- FIL 5038 History of Motion Pictures I
- FIL 5367 Documentary Film and Television
- Approved 5000/6000 level outside elective

Total Hours: 15

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.

Information Technology

The Master of Science in Information Technology (MSIT) program will prepare students for leadership roles in the IT sector. This program will train the next generation of IT professionals who are interested in broadening and gaining deeper knowledge of new and emerging technologies. The program will provide students with a strong foundational core of theoretical knowledge as well as deeper knowledge and skills in the areas of specialization. The two areas of specialization presently available are Cybersecurity and Database Management.

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

Cybersecurity Specialization

This specialization will train the next generation of IT professionals who are interested in broadening and gaining deeper knowledge of new and emerging technologies in the area of Cybersecurity. The coursework prepares students for leadership roles in cyber-related positions in public, nonprofit, and private organizations and also for admission to doctoral programs and professional schools.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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:

- Indication of the applicant’s ability to succeed in our graduate program as reflected in three letters of recommendation
- The applicant’s motivation for pursuit of a Master of Science in Information Technology degree described in a letter of intent written by the applicant
- Minimum undergraduate cumulative GPA of 3.0
- Undergraduate degree major
- The applicant’s motivation for pursuit of a Master of Science in Information Technology degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Information Technology degree described in a letter of intent written by the applicant
- Indication of the applicant’s ability to succeed in our graduate program as reflected in three letters of recommendation

MSIT Core (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6XXX</td>
<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Database Management Specialization

This specialization will train the next generation of IT professionals who are interested in broadening and deepening their knowledge of new and emerging technologies in the area of Databases. The coursework prepares students for leadership roles in Database fields in public, nonprofit, and private organizations and also for admission to doctoral programs and professional schools.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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 score of at least 150 and Quantitative of at least 145.
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Minimum undergraduate cumulative GPA of 3.0
- Undergraduate degree major
- The applicant’s motivation for pursuit of a Master of Science in Information Technology degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Information Technology degree described in a letter of intent written by the applicant
- Indication of the applicant’s ability to succeed in our graduate program as reflected in three letters of recommendation

MSIT Core (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
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<td>Information Security Management</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Database Management Specialization (18 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 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 Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

Instructional Design and Technology

Instructional Design and Technology professionals provide critical assistance for national and international education and training initiatives. The M.Ed. in Instructional Design and Technology prepares education, training, military, healthcare, and business and industry professionals to solve complex organizational problems through
the application of education, training and/or technology based solutions. Developing innovative solutions to address organizational problems and providing for just-in-time support to employees and learners permits students to develop a variety of instructional design and technology-related skills. Students may select the M.Ed. in Instructional Design and Technology with a concentration area in Distance Learning or Human Performance Technology, or the M.Ed. in Instructional Design and Technology with a specialization in Technology Leadership.

Graduates of the M.Ed. in Instructional Design and 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. 10) 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

* The graduate admission test may be waived for the following:
  - Applicants must have an undergraduate GPA of 3.0 or higher. The waiver will apply to applicants applying to all Master's level programs offered by the department.

Degree Requirements

In addition to general University requirements, students seeking the M.Ed. in Instructional Design and Technology must meet the requirements listed below.

To be eligible for a M.Ed. degree in Instructional Design and 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 Instructional, Workforce and Applied Technology
- Successfully complete the Capstone Experience (EME 6946).

Instructional Design and Technology

Instructional Technology Core (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6054</td>
<td>Foundations of Instructional Technology</td>
<td>3</td>
</tr>
<tr>
<td>EME 6062</td>
<td>Applied Instructional Technology Investigations</td>
<td>3</td>
</tr>
<tr>
<td>EME 6009</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 7676</td>
<td>Advanced Instructional Design Theory</td>
<td>3</td>
</tr>
<tr>
<td>EME 6607</td>
<td>Implementation of Instructional Technology Projects</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Concentration Area (Minimum 12 sh)

Students will select one of the following concentration areas:

Distance Learning

<table>
<thead>
<tr>
<th>Course</th>
<th>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>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6458</td>
<td>Distance Learning Policy and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Human Performance Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

Electives (6 sh)

Students will take an additional six credit hours of advisor approved electives (EME, EDF or EDG courses) at the 5000/6000 level. Students are encouraged but not required to take electives that align with their area of concentration.

Capstone Experience (3 sh)

All students are required to complete a capstone project/field experience. Students are responsible for identifying field experiences and obtaining permission to proceed from both the client and the instructor. Field experiences must fulfill a real need for a real client and be aligned with the student’s academic program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6946</td>
<td>Field Experiences in Instructional and Performance Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Technology Leadership Specialization

The Technology Leadership Specialization provides students with a strong foundation in technology and leadership while incorporating a highly flexible elective component, allowing students to select individual courses and/or certificate programs aligned with their particular areas of interest and professional goals. Students should work closely with their advisers when developing their program plans.

Instructional Technology Core (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6062</td>
<td>Applied Instructional Technology Investigations</td>
<td>3</td>
</tr>
<tr>
<td>EME 6607</td>
<td>Implementation of Instructional Technology Projects</td>
<td>3</td>
</tr>
<tr>
<td>EME 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 7676</td>
<td>Advanced Instructional Design Theory</td>
<td>3</td>
</tr>
<tr>
<td>EME 6054</td>
<td>Foundations of Instructional Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Electives (18 sh)

Students will select 18 semester hours of adviser approved elective courses aligned with their area of interest and professional goals. Students are expected to work closely with their adviser to identify appropriate courses and certificate programs that can be combined to meet the elective requirements of the degree. Potential certificate options include, but are not limited to, Instructional Design and Technology, Human Performance Technology, Virtual Educator, Graduate Business Foundations, Not for Profit, and Online Civics Educator.

Capstone (3 sh)

All students are required to complete a capstone experience consisting of a field experience/project. Students are responsible for identifying field experiences and obtaining permission to proceed from both the
client and the instructor. Field experiences must fulfill a real need for a real client and be aligned with the student’s academic program.

EME 6946 Field Experiences in Instructional and Performance Technology

Certificates

Instructional Design and Technology Certificate

Department: Instructional, Workforce and Applied Technology  
Method of Instruction: Online  
Semester Hours: 12

The Instructional Design and Technology (IDT) Certificate provides students with the knowledge, skills and abilities necessary to conduct needs analyses and design, develop and evaluate training and technology based initiatives in various organizational settings. This 12-hour online program is aligned with current research and best practices related to learning theory, instructional theory and technology integration, preparing students to function as instructional designers, training managers and technology specialists in a number of organizational settings including K12, higher education, healthcare, business and military.

<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 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 7676</td>
<td>Advanced Instructional Design Theory</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

Human Performance Technology Certificate

Department: Instructional, Workforce and Applied Technology  
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>
</tbody>
</table>

Total Hours 12

Virtual Educator Certificate

Department: Instructional, Workforce and Applied Technology  
Method of Instruction: Online  
Semester Hours: 12

The Virtual Educator Certificate provides students with a focused examination of the practices involved in the design, development, implementation, evaluation and administration of distance learning environments. This 12-hour online program allows students to develop the knowledge, skills and abilities necessary to work in various capacities within the virtual learning environment. Students will be prepared to function effectively as distance educators, designers, and administrators at all levels of education.

<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 6408</td>
<td>Integrated Technology Learning Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

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. 10) 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*.

* The graduate admission test may be waived for the following:  
- Must have a B.S. or B.A. degree in mathematical sciences with at least a 3.0 GPA.

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

- MAP 2302: Differential Equations (3)
- MAS 3105: Linear Algebra (3)
- STA 3162C: Applied Statistics (4)
- Choose one of the following: (3)
  - MAA 4212: Advanced Topics in Multi-Variable Calculus
  - MAD 4401: Numerical Analysis

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

- MAS 5145: Matrix Theory (3)
- STA 5326: Mathematical Statistics II (3)
- Advisor approved 5/6000-level courses* (18-24)

Total Hours: 24-30

Tracks

Students will choose one track.

Thesis Track

- Choose one of the following: (6)
  - MAT 6971: Thesis
  - STA 6971: Thesis

Total Hours: 6

Non-Thesis Track

- Choose one of the following: (1)
  - MAT 6930: Proseminar in Mathematics
  - STA 6930: Proseminar in Statistics

Additional approved 5/6000-level courses (6)

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

Certificates

Data Science Certificate

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science - Bldg 4/223</td>
<td>850.474.2542</td>
<td><a href="http://uwf.edu/cse/departments/computer-science/">http://uwf.edu/cse/departments/computer-science/</a></td>
<td><a href="mailto:computerscience@uwf.edu">computerscience@uwf.edu</a></td>
</tr>
</tbody>
</table>

Method of Instruction: Online and Face-to-face

Semester Hours: 15

The Certificate in Data Science combines advanced computer programming and database system architectures with statistical analyses and modeling. This program is designed to address the need for a skill set that includes programming, computational, and analytical skills, all of which is applicable to business, healthcare, as well as many other fields.

Admission Requirements:

Participants must have a B.S. degree in computer science, the mathematical sciences, or a related field with a grade point average of 3.0 or higher. Additionally, participants must complete the GRE with at least a 150 score for both verbal and quantitative parts.

Program Requirements:

Students admitted to the certificate program must successfully complete the five courses (for a total of 15 semester hours) listed below earning a grade of “C” or better in each course, and secure a combined grade point average of 3.0 or higher.

- COP 5007: Software Engineering Foundations: Java Programming (3)
- COP 5725: Database Systems (3)
- CAP 5771: Data Mining (3)
- STA 5176: Statistical Modeling (3)
- MAP 5471: Advanced Probability and Inferences (3)

Total Hours: 15

Students are expected to complete the program in at most 3 semesters.

Health Informatics Certificates

Health Informatics Graduate Certificate

Department: Public Health, Clinical and Health Sciences

Method of Instruction: Online

Semester Hours: 12

Health 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/certificate-informatics/courses.cfm for updates on course requirements in this certificate program.

- HSA 5196: Advanced Topics in Healthcare Information Technology (3)
- HSA 6197: Health Informatics (3)
- HSA 5198: Electronic Clinical Record Systems (3)

Choose one of the following: (3)

- PHC 6015: Epidemiological Study Design and Statistical Methods
- PHC 6196: Computer Applications in Public Health
- PHC 6251: Disease Surveillance and Monitoring
- PHC 6194: GIS Applications in Public Health
- BSC 5459: Bioinformatics and Data Science

Method of Instruction: Online

Semester Hours: 15

The Certificate in Health Informatics combines advanced computer programming and database system architectures with statistical analyses and modeling. This program is designed to address the need for a skill set that includes programming, computational, and analytical skills, all of which is applicable to business, healthcare, as well as many other fields.

Admission Requirements:

Participants must have a B.S. degree in computer science, the mathematical sciences, or a related field with a grade point average of 3.0 or higher. Additionally, participants must complete the GRE with at least a 150 score for both verbal and quantitative parts.

Program Requirements:

Students admitted to the certificate program must successfully complete the five courses (for a total of 15 semester hours) listed below earning a grade of “C” or better in each course, and secure a combined grade point average of 3.0 or higher.

- COP 5007: Software Engineering Foundations: Java Programming (3)
- COP 5725: Database Systems (3)
- CAP 5771: Data Mining (3)
- STA 5176: Statistical Modeling (3)
- MAP 5471: Advanced Probability and Inferences (3)

Total Hours: 15

Students are expected to complete the program in at most 3 semesters.
Advanced Health Informatics Teaching and Integration Graduate Certificate

Department: Public Health, Clinical and Health 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5196</td>
<td>Advanced Topics in Healthcare Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6197</td>
<td>Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Computer Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Study Design and Statistical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

- PHC 6251 Disease Surveillance and Monitoring 3
- PHC 6194 GIS Applications in Public Health 3
- BSC 5459 Bioinformatics and Data Science 3

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. 10) 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.

* The graduate admission test may be waived for the following:
  - Applicant must have earned a Bachelor of Science in Nursing (BSN) from an NLN or CCNE accredited nursing program with a minimum overall grade point average (GPA) 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.

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. No more than 49% of the program requirements for the M.S.N. degree may be taken in traditional business subjects.

M.S.N. Core (12 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6700</td>
<td>Nursing Theory</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6740</td>
<td>Contemporary Issues in the Role of Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6800</td>
<td>Nursing Research, Statistics, and Evidence Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6880</td>
<td>Ethical Issues in Advanced Nursing Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

Leadership and Management Specialization (27sh)

M.S.N Core (12 sh)

See Program Requirements

Leadership and Management Specialization (27 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6793</td>
<td>Economics of health management for nurse leaders</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6872</td>
<td>Information systems technology for nurse leaders</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6734</td>
<td>Project Development and Management for Nurse Leaders</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6728</td>
<td>Nursing Leadership &amp; Management Seminar I</td>
<td>6</td>
</tr>
<tr>
<td>NGR 6729</td>
<td>Nursing Leadership &amp; Management Seminar II</td>
<td>6</td>
</tr>
<tr>
<td>NGR 6833</td>
<td>Nursing Leadership &amp; Management EBP Project I</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6833L</td>
<td>Nursing Leadership &amp; Management EBP Project II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 27

Education Specialization

M.S.N Core (12 sh)

See Program Requirements
The graduate admission test may be waived for the following:

- to assess the potential success of each applicant:
  - holistic review of credentials in which the following criteria can be used

In addition to the University graduate admission requirements described in the Admissions section (p. 10) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria can be used:

- 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 sample research paper

* The graduate admission test may be waived for the following:

- Applicants must have an undergraduate cumulative GPA of at least 3.25 or higher in the Political Science, Political Science-Pre Law, or International Studies / Affairs major.

The strengths of the online graduate program and students' success depend on these live interactions. The live sessions are held for the evening core seminars. 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.

Exceptions to this policy are rare; however, extenuating circumstances should be addressed to the department chair. Note this is a synchronous course delivery 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.

This track allows students to take 15 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 3.5 or higher GPA. A match between faculty expertise of a thesis director and intended thesis topic is necessary, in addition to thesis director and chair approval to pursue a thesis. 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. Non-thesis students take 15 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. Completion of the degree requires a successful comprehensive exam or thesis defense.

- Advisor-approved comprehensive examination option (0 sh plus 15 sh of electives)
- Advisor-approved thesis option (6 sh plus 9 sh of electives)

This track allows students to take 15 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 3.5 or higher GPA. A match between faculty expertise of a thesis director and intended thesis topic is necessary, in addition to thesis director and chair approval to pursue a thesis. 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. Non-thesis students take 15 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. Completion of the degree requires a successful comprehensive exam or thesis defense.

- Advisor-approved comprehensive examination option (0 sh plus 15 sh of electives)
- Advisor-approved thesis option (6 sh plus 9 sh of electives)

Students must earn a GPA of 3.0 in each core course to satisfy program requirements.

**Political Science Core (18 sh)**

- CPO 6006  Seminar in Comparative Politics  3
- INR 6007  Seminar in International Relations  3
- POS 6006  The Study of Politics  3
- POS 6045  Seminar in American Politics  3
- POS 6704  Political Science Research Methods  3
- POT 5016  Seminar in Political Theory  3

**Total Hours** 18

**Tracks**

**Generalist Track (15 sh)**

Five CPO or INR prefix 5000/6000 level courses approved by the Chair or Advisor 15

Chair and Advisor-approved comprehensive examination 0

**Total Hours** 15

**Thesis Option**

- Students may choose to complete a thesis in lieu of completing 6 sh of electives 0-6
- POS 6971  Thesis 0-6

**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 Code</th>
<th>Course Title</th>
<th>Semester 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>
<tr>
<td>CPO 5315</td>
<td>Democracies</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6053</td>
<td>Public Administration Professional</td>
<td>3</td>
</tr>
</tbody>
</table>

**Psychology**

The M.A. in Psychology provides students with the study of human behavior. Graduate training in Psychology entails in-depth exploration and understanding of the core foundations of the biological bases of behavior, the social bases of behavior, the acquired bases of behavior, and the individual bases of behavior. As a scientific discipline, the study of psychology also requires competence in research methodology, statistics, and critical thinking. Psychology is an applied discipline, with applications in clinical health and mental health settings, business settings, and educational settings. Students completing a master’s degree in Psychology will be prepared to pursue a wide range of careers at the master’s level or to pursue advanced training at the doctoral level. There are several areas of concentration in the master’s program: Applied Experimental, Counseling-Thesis Option, Counseling-Licensed Mental Health Counselor, and Industrial-Organizational. Students seeking to complete the M.A. degree in Psychology must meet the general University requirements, the Department of Psychology graduate core requirements, and the specialized requirements of the student’s chosen area of concentration. The student also has the option of fulfilling requirements for a certificate in Health Psychology in addition to the requirements for the master’s degree.

**Admission Requirements**

Applications for admission for summer and fall semesters are due on the preceding February 1st. This application is for the Department of Psychology only, and supersedes all other published deadlines. 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. 10) 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 a 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 major’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 apply 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 (http://catalog.uwf.edu/graduate/academicpolicies/general/#non-degreeseekingstatus) 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; EXP 5735 Experimental and Correlational Statistics for Psychology or STA 5166 Special Topics in Statistics or an advisor approved elective 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.

<table>
<thead>
<tr>
<th>Biological Bases of Behavior Core</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP 5208 Advanced Sensation and Perception</td>
<td></td>
</tr>
<tr>
<td>EXP 5256 Human Factors Psychology (I/O only)</td>
<td></td>
</tr>
<tr>
<td>PSB 5035 Cognitive Neuroscience</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social Bases of Behavior Core</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCO 6278 Multicultural Counseling (LMHC only)</td>
<td></td>
</tr>
<tr>
<td>SOP 6069 Advanced Social Psychology</td>
<td></td>
</tr>
<tr>
<td>SOP 6669 Advanced Organizational Psychology (I/O Only)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Acquired Bases of Behavior Core</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5705 Advanced Behavior Modification</td>
<td></td>
</tr>
<tr>
<td>EXP 6506 Advanced Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>INP 6325 Training and Development (I/O Only)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Individual Bases of Behavior Core</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP 5055 Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>INP 6216 Personnel Selection and Appraisal (I/O Only)</td>
<td></td>
</tr>
<tr>
<td>PCO 6216 Theories of Individual Counseling (LMHC Only)</td>
<td></td>
</tr>
</tbody>
</table>

All students must complete:

| PSY 6217 Research Design in Psychology | 3 |
| And either: | |
| EXP 5735 Experimental and Correlational Statistics for Psychology | 3 |
| STA 5166 Special Topics in Statistics (or) | |

| 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 1-6
- PSY 6948 Internship * 1-6
- PSY 6971 Thesis 1-6

* 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 for 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 (or) | 3 |
| PSB 5035 Cognitive Neuroscience | |
| 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)**
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 Code</th>
<th>Course 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></td>
<td>Graduate Elective Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

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 Code</th>
<th>Course 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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>5-15</strong></td>
</tr>
</tbody>
</table>

**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 PCO6278 Multicultural Counseling to meet the Social Bases of Behavior portion of the core), Licensed Mental Heath Counseling students must complete the following:

**Concentration (15 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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 6246</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 6204</td>
<td>Pre-Practicum: Techniques of Counseling and Psychotherapy</td>
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<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
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**Application (9 sh)**

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<tr>
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<th>Course Title</th>
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<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>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>4-9</strong></td>
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</tbody>
</table>

**Elective (3 sh)**

**Licensure Courses (15 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>
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</tr>
<tr>
<td>CYP 6005</td>
<td>Community Psychology</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**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 students must complete the following:

**Concentration (12 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course 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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**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 Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5705</td>
<td>Advanced Behavior Modification</td>
<td>3</td>
</tr>
</tbody>
</table>
Additional statistics, or courses in Organizational Development (OD) offered in collaboration with the Management Department. No more than 49% of the program requirements for the M. A. in Psychology degree may be taken in traditional business subjects.

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.

EAB 5738 Behavioral Medicine 3
CLP 4314 Health Psychology 3
PSB 5035 Cognitive Neuroscience 3
EAB 5705 Advanced Behavior Modification 3

Two of the following:

PCO 6312 Substance Abuse Counseling 3
PSY 4832 Sport and Exercise Psychology 3
ISC 5517 Buddhist Psychology 3
ISC 5517L Buddhist Psychology Lab 3
CYP 6005 Community Psychology 3
EXP 5256 Human Factors Psychology 3
PSY 5016 Conjunctive Psychology 3
PSY 5016L Conjunctive Psychology Laboratory 3

One of the following:

HSA 5115 Health Care Policy and Administration 3
HSC 5506 Advanced Epidemiology 3

Total Hours 21

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 a broad curriculum 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. 10) 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 doctorial 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. 13) 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.
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 Code</th>
<th>Course Title</th>
<th>Semester 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></td>
<td><strong>21</strong></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 Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5123</td>
<td>Biological 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>3</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td></td>
</tr>
<tr>
<td>PHC 5442</td>
<td>Global Health</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></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 Code</th>
<th>Course Title</th>
<th>Semester 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>HSA 6425</td>
<td>Legal Fundamentals of Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5442</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HSA 6197</td>
<td>Health Informatics</td>
<td></td>
</tr>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td></td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Biometrics and Data Science</td>
<td></td>
</tr>
<tr>
<td><strong>Choose one of the following:</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HSA 6436</td>
<td>Health Economics</td>
<td></td>
</tr>
<tr>
<td>HSA 5438</td>
<td>Business Analysis and Decision Making in Health Care</td>
<td></td>
</tr>
<tr>
<td><strong>Choose one of the following:</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHC 5356</td>
<td>Fundamentals of Industrial Hygiene</td>
<td></td>
</tr>
<tr>
<td>PHC 5351</td>
<td>Occupational Safety and Health in the Health Care Environment</td>
<td></td>
</tr>
<tr>
<td>PHC 5355</td>
<td>Fundamentals of Occupational Safety and Health</td>
<td></td>
</tr>
<tr>
<td><strong>Or advisor approved electives. Contact the department (850-474-2650) for a current list of approved electives.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Certificates
Public Health/Emergency Management (HEM) Certificate
Department: Public health, Clinical and Health Sciences
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, raid health assessment, and surveillance will be covered. Topics include mental health issues, environmental services, ethical and legal issues, evaluation methods for assessing the mental and public health response, as well as discussion of complex humanitarian emergencies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 5856</td>
<td>Bioterrorism</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5205</td>
<td>Public Health Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Strategies for Prevention of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Public Health/Environmental Health (CEH) Certificate
Department: Public health, Clinical and Health Sciences
Method of Instruction: Online
Semester Hours: 12
Reading Education

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.

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. 10) 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.

### Reading Education Program Requirements

**Semester Hours:** 92

<table>
<thead>
<tr>
<th>Course</th>
<th>Department</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6300 Environmental Health (formerly Survey of Environmental Problems)</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6310 Environmental Toxicology</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6251 Disease Surveillance and Monitoring</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHC 6005 Disease Transmission in the Urban Environment</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5351 Occupational Safety and Health in the Health Care Environment</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Public Health/Infection Control (CIC) Certificate**

Department: Public Health, Clinical and Health Sciences

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:

- BSC 5856 Bioterrorism
- HSC 6528 Strategies for Prevention of Infectious Disease
- MCB 5273 Epidemiology of Infectious Disease
- PHC 6251 Disease Surveillance and Monitoring

**Total Hours** 12

**Public Health/Occupational Safety and Health (OSH) Certificate**

Department: Public Health, Clinical and Health Sciences

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 in the Health Care Environment
- PHC 5355 Fundamentals of Occupational Safety and Health
- PHC 5356 Fundamentals of Industrial Hygiene

**Total Hours** 9

---

* Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
** Miller Analogies Test (MAT) score
---
The graduate admission test may be waived for the following:

- Applicants must have an undergraduate GPA of 3.0 or higher from an accredited institution.

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 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAE 5345</td>
<td>Teaching Pupils to be Effective Writers</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5488</td>
<td>Literature for Children and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>RED 5515</td>
<td>Classroom Reading Assessments</td>
<td>3</td>
</tr>
<tr>
<td>RED 6060</td>
<td>Foundations of Middle and Secondary Literacy</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Early Literacy</td>
<td>3</td>
</tr>
<tr>
<td>RED 6240</td>
<td>Differentiating Instruction</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Identifying and Preventing Reading Difficulties</td>
<td>3</td>
</tr>
<tr>
<td>RED 6747</td>
<td>Research and Trends in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6866</td>
<td>Reading Practicum</td>
<td>3</td>
</tr>
<tr>
<td>RED 7247</td>
<td>The Organization and Administration of Reading Programs</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
</tbody>
</table>

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 focuses on 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. 10) 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 coursework within five years of admission to the program.

**Degree Requirements**

Tk20
Tk20 is the official electronic portfolio software of the University of West Florida Department of Social Work. Key assessments, projects, work samples, applications for field experience, and other essential documents will be collected, processed or archived through the Tk20 secure portal.

It is the responsibility of each student pursuing a BSW or MSW to purchase an account to access and use Tk20. The account activation fee is considered a professional expense incurred as part of participation in a professional program that uses data to meet accreditation requirements and make data-driven decisions on curricula. The user account may be utilized for seven years from the activation date.

### 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 5404</td>
<td>MSW 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>MSW Human Diversity and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5757</td>
<td>The History, Philosophy, and Theory of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective in Advanced Clinical Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Concentration Curriculum (30 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6618</td>
<td>Clinical Practice I: Treatment of Individuals</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6125</td>
<td>Psychopathology for Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>Advanced Year Field Instruction and Integrative Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6432</td>
<td>Evaluation of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6619</td>
<td>Clinical Practice II: Treatment of Families</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6548</td>
<td>Advanced Seminar in Clinical Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6536</td>
<td>Advanced Year Field Instruction and Integrative Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6846</td>
<td>Clinical Practice III: Treatment with Groups</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives in Advanced Clinical Practice</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### 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 who 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.

Tk20

Tk20 is the official electronic portfolio software of the University of West Florida Department of Social Work. Key assessments, projects, work samples, applications for field experience, and other essential documents will be collected, processed or archived through the Tk20 secure portal.

It is the responsibility of each student pursuing a BSW or MSW to purchase an account to access and use Tk20. The account activation fee is considered a professional expense incurred as part of participation in a professional program that uses data to meet accreditation requirements and make data-driven decisions on curricula. The user account may be utilized for seven years from the activation date.

### Advanced Curriculum (30 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6618</td>
<td>Clinical Practice I: Treatment of Individuals</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6125</td>
<td>Psychopathology for Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>Advanced Year Field Instruction and Integrative Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6432</td>
<td>Evaluation of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6619</td>
<td>Clinical Practice II: Treatment of Families</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6548</td>
<td>Advanced Seminar in Clinical Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6536</td>
<td>Advanced Year Field Instruction and Integrative Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6846</td>
<td>Clinical Practice III: Treatment with Groups</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Electives in Advanced Clinical Practice</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

### Curriculum and Instruction

The Ed.S. program at UWF is a 36 credit post-master’s degree inclusive of an applied research capstone project or a competency-based portfolio. The program 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.

A student entering the Ed.S. program has the opportunity to apply to the Ed.D. after completion of the program. Five of the core courses, EDF 6404 Educational Statistics I, EDF 7475 Qualitative Research I - Methods, EDF 7191 Psychological Foundations for Education: Cognition, Curriculum, and Instruction, EDF 7346 Advanced Analysis of Curruculum and Instruction, and EDF 7685 Educational Foundations: A Philosophical and Multicultural Analysis, will transfer to the Ed.D. program upon successful application and acceptance. If the student takes the exact sequence of courses offered in the specialization area of study, then all five courses taken will transfer into the Ed.D. program within the same specialization. On the other hand, if a student wishes to enroll in a different Ed.D. specialization from what was taken in the Ed.S., it will be handled on a case by case basis. Students who apply and are admitted into the Ed.D. program may earn an Ed.S. when they...
have successfully completed 36 credits of course work including a capstone research project or a competency-based portfolio.

**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. Admission is made at the department level and thus there are university and departmental requirements for admission to this program.

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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 transcripts and GPA
- Current Resume
- 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 department faculty mentors, CEPS Advising Center, and the Ed.D. Program Office to ensure that all application materials are submitted in a timely manner. There will be three admission cycles per year: January, May, and August.

**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 18 semester hours professional core and complete 15 semester hours of specialization courses. The specialization areas are as follows: Administration and Leadership Studies, housed in the Department of Research and Advanced Studies; Diversity Studies, housed in the Department of Research and Advanced Studies; Instructional Design and Technology, housed in the Department of Instructional Workforce and Applied Technology; and Curriculum & Assessment Studies, housed in the Department of Teacher Education and Education Leadership. Capstone experiences are tailored to the student’s professional goals and area of specialization.

**Program Requirements (36 sh)**

**Professional Core (18 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

**Specialization Electives (15 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7191</td>
<td>Psychological Foundations for Education: Cognition, Curriculum, and Instruction</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>
</tbody>
</table>

**Capstone (3 sh)**

Students will complete a three hour capstone experience by taking one of the courses listed below. The course selected will depend on the student’s area of interest and specialization.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6464</td>
<td>Applied Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6943</td>
<td>Supervised Experience in Single Case Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 7063</td>
<td>Research on Emerging and Innovative Technology Systems</td>
<td>3</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.


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**

In addition to the University graduate admission requirements described in the Admissions section (http://catalog.uwf.edu/graduate/admissions) 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 graduate admission tests*:  
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Master’s GPA (A master’s GPA below 3.5 requires competitive GRE, GMAT, or MAT scores)
• Submission of a resume
• Submission of three professional reference forms where at least two references are able to speak to your academic work, writing skills and sustainability for rigorous doctoral academic work.
• Submission of a letter of intent that includes answers to the following questions:
  • What personal and professional goals do you hope to meet through earning a doctorate, and why do you think the UWF Doctorate in Curriculum and Instruction is a good fit for your goals?
  • What special knowledge, skills, and experiences would you bring to the chosen specialization and how are these aligned with the mission of the doctoral program in Curriculum and Instruction as a whole? If you have had experiences that may have affected your academic performance, please provide explanatory context.
  • Be careful to clearly articulate how your skill set and experiences align with goals of the selected specialization, and show how these will impact your career trajectory.

Note: Your responses to the three questions should be no less than six double spaced pages, 12 font size in Times New Roman.

• Overall fit with the program

* The graduate admission test may be waived for the following:
  • Applicants must have a master’s degree with a GPA of 3.5 or higher.

Some specializations admit applicants once per year; contact the specialization’s program coordinator for specific admission deadlines or visit the Curriculum & Instruction, Ed.D. (http://uwf.edu/graduate/programs/graduate-degrees/curriculum_instruction_edd) webpage for more information.

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. 43) section of this catalog along with the Professional Core, Specialization, and Dissertation Requirements listed below:

Professional Core Requirements (30 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7790</td>
<td>Foundations of Doctoral Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7191</td>
<td>Psychological Foundations for Education: Cognition, Curriculum, and Instruction</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 7489</td>
<td>Advanced Research Methods</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>EDF 8289</td>
<td>Curriculum Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one Advanced Quantitative or Qualitative Methods course:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7476</td>
<td>Survey Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7468</td>
<td>Advanced Program Development and Evaluation</td>
<td></td>
</tr>
<tr>
<td>EDF 8406</td>
<td>Educational Statistics III: Multivariate Analyses</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8446</td>
<td>Instrument Development and Validation</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8785</td>
<td>Research Ethics</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7437</td>
<td>Measurement and Single Case Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one Critical Issues Elective:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7930</td>
<td>Special Topics and Critical Issues in Teaching and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 30

Specialization Requirement (18 sh)

Curriculum and Assessment Specialization

The Curriculum and Assessment Specialization targets individuals in public and private sectors who want to specialize in curriculum and assessment design, development, evaluation, and implementation. This program is grounded in the theories and models of curriculum, evaluation, and assessment. The core courses (30 sh) and the specialization courses (18 sh) will be taken in conjunction with four dissertation seminars (2 sh each). These specialization courses along with the concurrent dissertation seminars provide the student with the competencies necessary to produce a scholarly written research proposal. This research proposal is then implemented and completed during the final 10 sh of the program.

The following courses are required in this specialization:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7667</td>
<td>Evaluating Models of Curriculum &amp; Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7354</td>
<td>Test, Measurement, &amp; Data Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7008</td>
<td>Assessment Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7256</td>
<td>Assessing Curricula</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8466</td>
<td>Assessing Educational Programs</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8938</td>
<td>Seminar: Advanced Methods in Assessment and Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7638</td>
<td>Social Change and Reform</td>
<td></td>
</tr>
<tr>
<td>EDG 7070</td>
<td>Managing Learning Environments</td>
<td></td>
</tr>
<tr>
<td>EDG 7241</td>
<td>Social Justice and Inequities</td>
<td></td>
</tr>
<tr>
<td>EDG 7303</td>
<td>Analysis of Learning and Teaching Practices</td>
<td></td>
</tr>
<tr>
<td>EDG 7346</td>
<td>Advanced Analysis of Curriculum and Instruction</td>
<td></td>
</tr>
<tr>
<td>EME 7063</td>
<td>Research on Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
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.

**Instructional Design and Technology Specialization**

The Instructional Design and Technology Specialization offers two concentrations: Performance Technology and Distance Learning. The Performance Technology option targets individuals who want to investigate how instructional technology and systems thinking can be used to improve performance and learning in various organizational settings. The Distance Learning concentration targets individuals who want to develop expertise in the theoretical constructs and best practices associated with the design, development, implementation, evaluation and administration of distance learning. All students complete a common core, providing them with foundational knowledge related to the theory and practice of instructional design and technology in addition to electives within the chosen concentration.

- **EDF 6609** Principles of Instructional Design 3
- **EDF 7676** Advanced Instructional Design Theory 3
- **EDF 7938** IT Research Design Seminar 3

**Total Hours** 9

**Performance Technology Option**

Students will select 9 semester hours of required course work in this specialization.

**Total Hours** 9

**Distance Learning Option**

Students will select 9 semester hours of required course work in this specialization.

**Total Hours** 9

---

**Physical Education and Health Specialization**

This 18 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.

- **PET 7533** Behavioral Observation Methods in Physical Education and Health 3
- **PET 7003** Advanced Theoretical Models of Health and Physical Education 3
- **PET 7516** Advanced Assessment and Evaluation in Health and Physical Education 3
- **PET 7535** Strategic Planning and Instructional Design in PE and Health 3
- **PET 7708** Research on Teaching Physical Education and Health 3
- **PET 7774** Models of Teaching in Physical Education and Health 3

**Total Hours** 18

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**Sciences and Social Sciences Specialization**

The Sciences and Social Sciences Specialization offers two options: Mathematics and Statistics/Science/Computer Science 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
Course Information

In this section:
- Course Descriptions (http://catalog.uwf.edu/courseinformation/courses)
- General Course Information (p. 98)
- Course Schedule by Semester (https://erpapp.banner.uwf.edu/PROD/bwckschd.p_disp_dyn_sched)
- Material & Supply and Equipment Fees (p. 100)

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 by participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS 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>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>English Lower Level</td>
<td>Freshman</td>
<td>Freshman</td>
<td>Freshman</td>
<td>No laboratory</td>
<td></td>
</tr>
<tr>
<td>Composition</td>
<td>Level at this institution</td>
<td>Composition, Composition, Composition, Component in this course</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

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.

1. Courses not offered by the receiving institution.
2. For courses at nonregionally accredited institutions, courses offered prior to the established transfer date of the course in question.
3. 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.
5. Graduate courses.
6. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
7. 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.).

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 University of West Florida in the Office of the Registrar 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:

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<th>Course Range</th>
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<tr>
<td>1000-2999</td>
<td>Freshman, sophomores, and non-degree students unless otherwise noted</td>
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<tr>
<td>3000-4999</td>
<td>Open to freshmen, sophomores, juniors, seniors, and non-degree students</td>
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<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>
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<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>
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<tr>
<td>8000-8999</td>
<td>Restricted to students enrolled in the doctoral program</td>
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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/graduate/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.

Material & Supply Fees and Equipment 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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**Clinical Laboratory Sciences**

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**Communication Arts**

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Descriptions

ACG - 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 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   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 3172   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 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. Prerequisites: FIN 3403 minimum grade of C.

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 4.000 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 AND GEB 3213
Critical evaluation of broad framework of financial accounting theory.

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
Introduction to principles of auditing and other assurance services with an emphasis on attestation standards and ethical requirements promulgated by the American Institute of Certified Public Accountants.

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 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 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. Must have completed ACG 3443 or the equivalent with a grade of C (2.0) or better to enroll.

ACG 6309 Accounting Aspects of 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 Advanced 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. Must have completed ACG 3401 or equivalent with C (2.0) or better to enroll.

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. Must have completed ACG 3451 or equivalent with C (2.0) or better to enroll.

ACG 6856 Advanced Auditing
3 sh (may not be repeated for credit)
Advanced research, interpretation, and application of professional and ethical standards of auditing, assurance, attestation, and accounting and review services, including standards promulgated by the American Institute of Certified Public Accountants, the United States Public Company Accounting Oversight Board, International Federation of Accountants, and the United States Government Accountability Office. Must have completed ACG 4651 or equivalent with a grade of C (2.0) or better to enroll.

ACG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ADE - Adult Education Courses

ADE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ADV - 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 ADV 3300 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 6.000 sh of credit)
Prerequisite: COM 4800 OR MAR 4613
Preparation for the American Advertising Federation National Student Advertising Competition (NSAC). Student agency prepares complete campaign, including: market research and segmentation, media and promotion plans, strategy, creation, and presentation. Professional standards stressed. Permission is required and students must become dues-paying members of UWF's American Advertising Federation (AAF) chapter as required by NSAC guidelines. Credit may be received in ADV 4801 for up to 6 sh.

ADV 4802 Integrated Communication-Campaigns
3 sh (may not be repeated for credit)
Prerequisite: COM 4800* OR MAR 4613*
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)

* This course may be taken prior to or during the same term.

AFR - 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.

AFR- Aerospace Studies 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, officership 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-require: AFR 1101
Corresponding lab for The Foundations of the United States Air Force I.

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 war, its basic principles, and motivation. The course concludes with an understanding of the Air Force oath of office 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 followership experiences.

AFR 1112L The Foundations of the United States Air Force II Lab
0 sh (may not be repeated for credit)
Co-require: 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-require: 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-require: 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.
AMH - 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. Satisfies UWF Breadth requirement in Social Sciences.

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. Satisfies Florida Common Core Social Sciences requirement.

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 4140 Early American Republic
3 sh (may not be repeated for credit)
This course examines the major issues, events, and figures that defined the early American republic, the formative period of American history from the American Revolution to the War of 1812. All aspects of the early republic will be covered -- social, cultural, economic, political, constitutional, diplomatic, military, and biographical.

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 4153 Lewis and Clark: Corps of Discovery
3 sh (may not be repeated for credit)
Students in this course will research and experience the travels of Meriwether Lewis, William Clark, and the Corps of Discovery from its inception with Thomas Jefferson through its travels from 1803 to 1806, and its impact on the development of the United States to the present. Offered concurrently with HIS 5156; graduate students will have additional work.
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 4644 Civil Rights and Hollywood
3 sh (may not be repeated for credit)

Through this Public History undergraduate course, we will use period films and television to explore the Civil Rights Movement and its affect on the course of events in United States history as well as its influence on aspects of American culture. We will conduct classes through a combination of lectures, film screenings, and discussions, as well as with individual and group projects. Offered concurrently with AMH 5646; graduate students will be assigned additional work.

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 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 5156 Lewis and Clark: Corps of Discovery
3 sh (may not be repeated for credit)

This course will research and create interpretive pieces on visitor sites from the travels of Meriwether Lewis, William Clark, and the Corps of Discovery from its inception with Thomas Jefferson through its travels from 1803 to 1806. Elements will focus on the conflicting perspectives of Turnerian ?Frontier? theory and New Western historical theory as well as the greater elements of change in the West including the progression of native populations, American expansion, environmental issues, cultural viewpoints, and the elements leading to current conditions. Classes will be conducted through a combination of lectures and discussions. From these concentrated sessions, students will then research selected visitor facilities across the United States and create interpretive narrative content on each for the Next Exit History? database. Offered concurrently with AMH 4153; graduate students will be assigned additional work.

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 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 4440 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)

This course 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. Offered concurrently with AMH 4160; graduate students will be assigned additional work.
AMH 5277 Cold War and Film
3 sh (may not be repeated for credit)
Period films are used to learn about the Cold War and its affect on the course of events in U.S. 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. Offered concurrently with AMH 4272; graduate students are assigned additional work.

AMH 5646 Civil Rights and Hollywood
3 sh (may not be repeated for credit)
Through this Public History graduate course, we will use period films and television to explore the Civil Rights Movement and its effect on the course of events in United States history as well as its influence on aspects of American culture. We will conduct classes through a combination of lectures, film screenings, and discussions, as well as with individual and group projects. Offered concurrently with AMH 4644; graduate students will be assigned additional work.

AMH 5905 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 6137 Revolutionary America
3 sh (may not be repeated for credit)
This course explores the causes, course and consequences of the revolution. We consider two dimensions of the revolution?as a war of independence and a social upheaval within the colonies. Topics include the commercial and political strands of empire; the nature of creole identity, culture and society; the imperial crises and opening of the war; the role of various fighting forces through the Peace of Paris; and the subsequent struggles over the character of new state and national governments.

AMH 6149 Transformations of America
3 sh (may not be repeated for credit)
This course examines the major issues, events, and figures that defined the early American republic, the formative period of American history from the War of 1812 to the Civil War. All aspects of the early republic will be covered -- social, cultural, economic, political, constitutional, diplomatic, military, and biographical.

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 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)

AML - 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. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement.

AML 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

AML 3020 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 3030 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 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 3625 African American Literature
3 sh (may not be repeated for credit)
Primarily for English majors and minors.

AML 3646 Civil Rights and Hollywood
3 sh (may not be repeated for credit)
Through this Public History graduate course, we will use period films and television to explore the Civil Rights Movement and its effect on the course of events in United States history as well as its influence on aspects of American culture. We will conduct classes through a combination of lectures, film screenings, and discussions, as well as with individual and group projects. Offered concurrently with AMH 4644; graduate students will be assigned additional work.

AML 3664 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.

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 4302  
Single Author Seminar, American Literature, 1700 to the Present  
3 sh (may not be repeated for credit)  
Prerequisite: ENG 3010

This course is designed to give students an in-depth view into American Literature through detailed study of the work of a single canonical author. Extended study of the oeuvre of a single author gives students insight into not only specific moments of history and the overall scene of publishing/literature, but also how a specific author?s style and treatment of themes develop over time.

AML 4640  
Topics in Native American Literature  
3 sh (may not be repeated for credit)

This course examines the history, form, and cultural context of Native American literature using a variety of texts and genres. Oral traditions, material culture, and written texts will be considered. Works by Native American authors will be examined in their own right, and in relation to texts by non-native writers. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

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 12.000 sh of credit)

Studies in major figures or movements in American literature. Topics change each term. See department or instructor for specific topic.

AML 6506  
Topics in American Literature to 1900  
3 sh (may not be repeated for credit)

This course examines canonical and non-canonical texts of early American literature. Emphasis on specialized study of one or more selected authors or genres. Theoretical and critical approaches current in the field will be stressed. In close consultation with the professor, students will produce a substantial body of written work reflecting their own research interests.

AML 6507  
Topics in American Literature 1900-Present  
3 sh (may not be repeated for credit)

This course examines canonical and non-canonical texts post-1900 American literature. Emphasis on specialized study of one or more selected authors or genres. Theoretical and critical approaches current in the field will be stressed. In close consultation with the professor, students will produce a substantial body of written work reflecting their own research interests.

AML 6905  
Directed Study  
1-12 sh (may be repeated indefinitely for credit)

AMS-American Studies Courses

AMS 6009  
Introduction to American Studies  
3 sh (may not be repeated for credit)

Explores dominant themes in the American experience, and it will introduce graduate students to the methodology, theories, and content regarding Early American Studies. The course draws on a variety of mediums including film, literature, paintings, and historical writings.

ANG - 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 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 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 hominin 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 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 6.000 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 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 not be repeated for 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit (may not be repeated for credit)</th>
<th>Description</th>
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<tbody>
<tr>
<td>ANG 6196</td>
<td>Policies, Practices and Archaeology in Historic Preservation</td>
<td>3 sh</td>
<td>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.</td>
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<tr>
<td>ANG 6286</td>
<td>Contemporary Cultural Anthropological Theory</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANG 6583</td>
<td>Evolutionary Theory in Biological Anthropology</td>
<td>3 sh</td>
<td>Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human bio-cultural evolution.</td>
</tr>
<tr>
<td>ANG 6824</td>
<td>Advanced Archaeological Field Methods</td>
<td>3-6 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANG 6905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>Permission of Thesis Committee required. Graded on satisfactory / unsatisfactory basis only.</td>
</tr>
<tr>
<td>ANG 6971</td>
<td>Anthropology Thesis</td>
<td>1-6 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 1138</td>
<td>Introduction to Maritime Studies</td>
<td>1 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 2000</td>
<td>Introduction to Anthropology</td>
<td>3 sh</td>
<td>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. Satisfies Florida Common Core Social Sciences requirement. Meets Multicultural Requirement.</td>
</tr>
<tr>
<td>ANT 2100</td>
<td>Introduction to Archaeology</td>
<td>3 sh</td>
<td>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. Satisfies UWF Breadth requirement in Social Sciences.</td>
</tr>
<tr>
<td>ANT 2400</td>
<td>Current Cultural Issues</td>
<td>3 sh</td>
<td>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. Satisfies UWF Breadth requirement in Social Sciences.</td>
</tr>
<tr>
<td>ANT 2511</td>
<td>Biological Anthropology</td>
<td>3 sh</td>
<td>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. Satisfies UWF Breadth requirement in Natural Sciences.</td>
</tr>
<tr>
<td>ANT 2511L</td>
<td>Biological Anthropology Lab</td>
<td>1 sh</td>
<td>Lab corresponding with ANT 2511.</td>
</tr>
<tr>
<td>ANT 2705</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3015</td>
<td>Forensics in the Media</td>
<td>3 sh</td>
<td>Detailed explanation of the principles and methodology of current archaeology in U.S.; includes a brief history and theoretical orientation development of American archaeology.</td>
</tr>
<tr>
<td>ANT 3101</td>
<td>Principles of Archaeology</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3141</td>
<td>Origins of Civilization</td>
<td>3 sh</td>
<td>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.</td>
</tr>
</tbody>
</table>
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 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. Emphases 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/L

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 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 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 5536; graduate students will be assigned additional work. Pre requisite: 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 4586  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 4651  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 6.000 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.
APK-Applied Kinesiology Courses

APK 3110 Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L AND CHM 2045/L
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 3220 Biomechanical Basis of Movement
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L AND ATR 3132
Co-requisite: APK 3220L

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.

APK 3220C Biomechanical Basis of Movement
4 sh (may not be repeated for credit)
Prerequisite: (APK 3110/L) AND (MAC 1105 OR MAC 1114 OR MAC 1140 OR MAC 2233 OR MAC 2311 OR MAC 2312 OR MAC 1106 OR MAC 1107 OR MAC 2023)

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 Education Mathematics minimum grade C.

APK 3220L Biomechanical Basis of Movement Laboratory
1 sh (may not be repeated for credit)
Prerequisite: APK 3110/L
Co-requisite: APK 3220

As a co-requisite to the lecture course APK 3220, the laboratory section allows for hands-on experiences relative to human movement. Students will interact with biomechanical data collection systems, including three-dimensional motion capture, electromyography, accelerometry, and force plates. Students will gather data necessary to complete a condensed research project.

APK 3232 Measurement and Evaluation in Health, Leisure, and Sports
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/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.

APK 4114C Physiological Basis of Strength Development
3 sh (may not be repeated for credit)
Prerequisite: APK 3220C OR PET 4310C

Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development.

APK 4119 Exercise Testing for Special Populations
3 sh (may not be repeated for credit)
Prerequisite: APK 4125/L

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.

APK 4125 Exercise Testing and Prescription
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L
Co-requisite: APK 4125L

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.

APK 4125L Exercise Testing and Prescription Laboratory
1 sh (may not be repeated for credit)
Prerequisite: APK 3110/L

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.

APK 4163 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.

APK 4200 Motor Development and Skill Learning
3 sh (may not be repeated for credit)
Prerequisite: APK 3232

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.

APK 4234C Electrocardiogram Interpretation and Graded Exercise Testing
3 sh (may not be repeated for credit)
Prerequisite: APK 4119

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.
APK 4090 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.

APK 4600C Aging and Physical Performance
3 sh (may not be repeated for credit)
Prerequisite: APK 4119 AND APK 4200
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.

APK 4603C Balance and Mobility Training for Older Adults
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L
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.

APK 4941C Senior Capstone Experience in Exercise Science
1-6 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: APK 3220C AND APK 4114C AND APK 4119
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. Departmental permission will be required.

APK 5116C Applied Physiology in Muscular 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.

APK 5204 Applied Motor Learning/Control in Exercise Science
3 sh (may not be repeated for credit)

APK 5407 Elite Performance 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.

APK 5601 Preventative Health in the Aging Population
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.

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Research and problems in exercise physiology; advanced study of reactions of the human body under stress and during exercise. Material and supply fee will be assessed.

APK 6127C Clinical Exercise Testing and Interpretation
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.

APK 6167C 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.

APK 6226 Analysis of Human Movement
3 sh (may not be repeated for credit)
The course will provide students with the tools necessary to collect and analyze characteristics of human movement using current neuromechanical technologies. Students will engage in neuromechanical study design, implementation, analysis, and dissemination within the laboratory setting.

ARA-Arabic Language Courses

ARA 1120C Beginning Arabic and Language Culture I
4 sh (may not be repeated for credit)
Designed for students with no experience in the Arabic language to develop knowledge through listening, speaking, reading, and writing Modern Standard Arabic. Focuses primarily on cultural understanding of the Arabic world, and basic Arabic language pronunciation, comprehension, communication, and grammar. In addition to the scheduled activities, students are required to complete weekly laboratory assignments.
ARA 1121C  Beginning Arabic and Language Culture II
4 sh (may not be repeated for credit)
Prerequisite: ARA 1120C
Continuation of ARA 1120C emphasizing listening and speaking skills with continued practice in reading and writing. Basic grammatical structures will be reviewed and new grammar introduced. The cultural component consists of in-depth considerations of issues in the Arabic world.

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.

ARE-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.

ARE 3314C  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 not be repeated for up to 8.000 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 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.

ARH-Art History Courses
ARH 1000  Art Appreciation
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. Satisfies Florida Common Core Humanities requirement. Meets Multicultural Requirement.

ARH 2050  Western Survey I: Greek to Renaissance
3 sh (may not be repeated for credit)
Analyses the western aesthetic heritage within its cultural context from the birth of Greek art through the late Renaissance era. Required for all art majors. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 2051  Western Survey II: Baroque to Contemporary
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 Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 3590  Perspectives in Ancient and World Art
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. Meets Gordon Rule Writing 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. Meets Gordon Rule Writing Requirement.

ARH 3724  History of Graphic Design
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. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

ARH 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
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. Meets Gordon Rule Writing Requirement.

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 Gordon Rule Writing Requirement. 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. Meets Gordon Rule Writing Requirement. 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. Meets Gordon Rule Writing Requirement. 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. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 4470  Art After 1950
3 sh (may not be repeated for credit)

ARH 4520  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 4652  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 6.000 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 9.000 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)
Prerequisite: ARH 2050 AND ARH 2051
Provide 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. Permission is required. Meets Gordon Rule Writing Requirement.

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 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 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 6,000 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.

ARH 6905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**ART- 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. Satisfies UWF Breadth requirement in Humanities.

**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)  
Prerequisite: ART 2602C  
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. Satisfies UWF Breadth requirement in Humanities.

**ART 2905 Directed Study**  
1-12 sh (may be repeated indefinitely for credit)

**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 3313C  Drawing for Non-Majors
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C
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 1300C 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 3507C  Painting for Non-Majors
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 3518C  Advanced Sculpture: Intro to New Genres
3 sh (may not be repeated for up to 9.000 sh of credit)
Prerequisite: ART 2701C
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 collaboratively 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 3518C  Advanced Sculpture: Intro to New 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. Permission is required.

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 3769C  Sculptural Ceramics
3 sh (may be repeated for up to 9,000 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 27,000 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 9,000 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 4332C  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 9,000 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 9,000 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 in 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 9,000 sh of credit)
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 be repeated for up to 9.000 sh of credit)
Prerequisite: ART 3613C
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 9.000 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 Electronic Art
3 sh (may be repeated for up to 9.000 sh of credit)
Prerequisite: ART 2602C
An exploration of the development of interactive objects and environments for artists and designers. 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 9.000 sh of credit)
Prerequisite: ART 3764C
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 9.000 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)
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)

ART 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ASH-Asian History Courses

AST 1002 Descriptive Astronomy
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114
Introductory astronomy. Basic astronomical concepts; gravitation and other cosmic forces; planets, moons, and other components of the solar system; nature and evolution of the sun and other stars; structure of galaxies and of the universe as a whole. Satisfies Florida Common Core Natural Sciences requirement.

AST 1002L Descriptive Astronomy Laboratory
1 sh (may not be repeated for credit)
Co-requisite: AST 1002
Elective laboratory to accompany AST 1002. One period per week for 3 hours. Experiments, measurements, and observations of planetary, stellar, galactic, and extragalactic astronomy.

AST 3222 Introduction to Astrophysics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 AND PHY 2048
Co-requisite: PHY 2049
Comprehensive survey of the universe and its appearance from earth. Seasons, tides, eclipses. The solar system, stellar evolution and galaxies. Quasars, pulsars, black holes.

AST 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ATR-Athletic Training Courses

ATR 2000 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, ATR 2000 and PET 2604.

ATR 2010 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.

ATR 3104 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.
ATR 3132  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.

ATR 3212  Evaluation Techniques of Athletic Injuries I  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 2010  
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, ATR 3212 and PET 4609.

ATR 3302  Therapeutic Modalities in Athletic Training  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 2010  
Co-requisite: ATR 3302L  
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.

ATR 3302L  Therapeutic Modalities in Athletic Training Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: PET 2622  
Co-requisite: ATR 3302  
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.

ATR 3512  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, ATR 3512 and PET 3660.

ATR 3812  Athletic Training Clinical I  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 2000 AND BSC 1085/L  
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?š 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.

ATR 3822  Athletic Training Clinical II  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3812  
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?š 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.

ATR 4213  Evaluation Techniques of Athletic Injuries II  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3212 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.

ATR 4314  Rehabilitation of Athletic Injuries  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 2010  
Co-requisite: ATR 4314L  
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.

ATR 4314L  Rehabilitation of Athletic Injuries Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: ATR 2010  
Co-requisite: ATR 4314  
Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

ATR 4420  Pharmacology Application in Athletic Training  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 3212  
Provides information on the use, interaction, side effects of pharmaceuticals used in the treatment of athletes. Provides instruction in pharmacodynamics, pharmacokinetics used in the description of medical conditions associated with athletic injury diagnosis and classification.
ATR 4113, ATR 4933 and PET 4621.

Permission is required. Credit may not be received in both
students regarding interviewing skills, writing resumes and research
simulation and oral certification exam. Will also provide feedback to
provide students with hands on experience with a mock NATA written
The purpose is to provide students with knowledge of the professional
Prerequisite: ATR 3212
A specialized course dealing with the pathology, signs and symptoms,
among treatment of selected general medical conditions
affecting the physically active individual.

ATR 4832 Athletic Training Clinical III
3 sh (may not be repeated for credit)
Prerequisite: ATR 3822

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.

ATR 4842 Athletic Training Clinical IV
3 sh (may not be repeated for credit)
Prerequisite: ATR 4832

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.

ATR 4902 Directed Study
1-12 sh (may not be repeated for credit)

Prerequisite: ATR 3212 AND ATR 3302 AND ATR 4213 AND
ATR 4314 AND PET 4609

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, ATR 4933 and PET 4621.

### BCH-Biochem (Biophysics) Courses

BCH 3033 Biochemistry I
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND CHM 2210

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 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.

### BCN-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
fundamental 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)
Prerequisite: MAC 1114 AND PHY 2053

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)
Prerequisite: MAC 1114
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 include 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  Building Information Modeling
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 not be repeated for 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)
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 4773  Construction Finance and Controls
3 sh (may not be repeated for credit)
Prerequisite: EGN 3613
The basic principles and application of construction ownership and business management will be covered. The emphasis for the course will be on financial management, risk management, labor law, worker compensation. Accounting competencies are also covered. The outline for the course covers the topics contained in the Business Section of the Florida Contractor's Manual. Additionally, sections of the AICPA Audit and Accounting Guide for Construction Contractors will be included.

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.
BME-Biomedical Engineering Courses

BME 4007  Biomechanics
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500

Mechanics of the musculoskeletal system with an emphasis on the control of human movement. Topics include kinetics, kinematics, anthropometry, mechanical work, energy and power.

BOT-Botany Courses

BOT 2010  General Botany
3 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. Satisfies UWF Breadth requirement in Natural Sciences.

BOT 2010L  General Botany lab
1 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
3 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 development 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
1 sh (may not be repeated for credit)
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 4404C  Aquatic Botany
4 sh (may not be repeated for credit)

Morphology, taxonomy, physiology and ecology of aquatic plants, especially freshwater and marine algae. Material and supply fee will be assessed for corresponding lab.

BOT 4503  Plant Physiology
3 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
1 sh (may not be repeated for credit)
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, enzymeology, 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
3 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
1 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  
3 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  
1 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  
3 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  
1 sh (may not be repeated for credit)  
Co-requisite: BOT 5506  
Corresponding lab for Plant Physiology.

BOT 5735  Plant Biotechnology  
3 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  
1 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)  

BSC-Biological Sciences Courses

BSC 1005  General Biology for Non-Majors  
2 sh (may not be repeated for credit)  
Prerequisite: BSC 1005L*  
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. Satisfies Florida Common Core Natural Sciences requirement.

BSC 1005L  General Biology Laboratory for Non-Majors  
1 sh (may not be repeated for credit)  
Prerequisite: BSC 1005*  
Lab correlating with BSC 1005. Material and Supply Fee will be assessed. Satisfies Florida Common Core Natural Sciences requirement.

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. Satisfies UWF Breadth requirement in Natural Sciences.

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. Satisfies Florida Common Core Natural Sciences requirement.

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. 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. Satisfies UWF Breadth requirement in Natural Sciences.

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. 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. Satisfies Florida Common Core Natural Sciences requirement.

BSC 2010L Biology I Laboratory
1 sh (may not be repeated for 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 organ system, and community level. Satisfies UWF Breadth requirement in Natural Sciences.

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 organ system level, and provide an introduction to ecological interactions at the population and community level.
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)

BSC 4941  Clinical Experience in Health Care
3 sh (may not be repeated for credit)

Prerequisite: Completion of 90 hours of college course work is required prior to taking this course.

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 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 4303; graduate students will be assigned additional work.

BSC 5459  Bioinformatics and Data Science
3 sh (may not be repeated for credit)

This project-based course explores concepts and practical applications in bioinformatics. It covers essential topics such as data organization, representing and reasoning about sequence data, simple data mining strategies, and ethical protocols for data collection. Students will learn how to apply data science principles to biological, clinical, and public health problems to effectively work with large data sets, format data, and design applications to help visualize, analyze, interpret, and communicate the resulting insights in ways that advance science. Students will further examine current events demonstrating how collaborative, cross-disciplinary teams use bioinformatic technologies and tools with big data analytics to support translational research. Open to students from any discipline.

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 12,000 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.
* This course may be taken prior to or during the same term.

BTE-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.

BUL-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 4244 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. Offered concurrently with BUL 5831; graduate students will be assigned additional work.
BUL 4602 Legal Fundamentals of Healthcare and Public Health
3 sh (may be repeated for up to 6,000 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.
BUL 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
BUL 5244 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. Offered concurrently with BUL 4244; graduate students will be assigned additional work.
BUL 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CAP-Computer Applications Courses
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: COP 4710
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.
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  Criminal Justice System  
3 sh (may not be repeated for credit) 
Introductory analysis of the American criminal justice system. Structure, organization and process of the criminal justice system, the roles and responsibilities of criminal 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) 
Familiarizes 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. Meets 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.
Communication skills.

Criminal justice curriculum. Students will demonstrate oral and written communication skills.

This seminar will help students explore and prepare for a career in criminal justice curriculum with a focus on contemporary issues.

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 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)

CCJ 6910  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 6930  Seminar: Special Topics in Criminal Justice
3 sh (may be repeated for up to 12.000 sh of credit)
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.

CCJ 6946  Criminal Justice Internship
3 sh (may not be repeated for credit)
Internship in field of criminology and 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. Course requirements include a research component.

CDA-Computer Design/Archit Courses

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 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

CEN-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: (CC 3031 AND COP 3022)) AND (COP 3530)
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: (CEN 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)
CEN 4910  Undergraduate Computer Science Research
1-4 sh (may be repeated for up to 7.000 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 is required upon completion of the course. Permission is required.

CEN 5003  Software Engineering Foundations: Operating Systems and Networks
3 sh (may not be repeated for credit)
Prerequisite: COP 5007
A course in the Software Engineering Foundation Series on principles/concepts of modern operating systems and networks used in developing high-quality software systems. 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)
CEN 5915  Graduate Computer Science Research
1-4 sh (may be repeated for up to 2.000 sh of 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 6016  Software Engineering Process Improvement
3 sh (may not be repeated for credit)
Prerequisite: COP 5007*
CEN6016 is a professional practice course in which the students will create several software engineering design documents. Students will also critique and debate current topics and trends in software engineering. Finally, prominent software engineering approaches, methods, and processes (e.g., CMMI, Agile processes) are examined and compared.

CEN 6027  Software Engineering Process Improvement
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016
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
3 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.

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 6095  Software Engineering Practice and Tools
3 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)
* This course may be taken prior to or during the same term.

**CET-Computer Engineering Tech Courses**

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.

**CGS-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. Satisfies UWF Breadth requirement in Natural Sciences.

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.

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  Basic Web Applications
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Introduces the student to the concepts and principles of designing software tools used in web applications. The student will gain hands on experience in developing, manipulating, and implementing web tools such as databases and server-side programming. 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)
Prerequisite: CGS 2570
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.

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)

**CHI-Chinese Courses**

CHI 1100  Chinese Language I
4 sh (may not be repeated for credit)
Chinese I is a semester-long course designed for non-native Chinese learners. It introduces students to the official Chinese language-Mandarin (or Putonghua). The course aims to help students obtain an adequate mastery of basic language skills in both spoken and written Chinese and lay a good foundation for further study of this language. Throughout the semester, this class will also introduce the Chinese culture and tradition to students. Students will learn the Chinese phonology, vocabulary and grammar, and sentence patterns; they will also learn how to read and write Chinese characters. Specifically, through such activities as vocabulary-in-context, sentence pattern practice, listening and reading comprehension, dialogue and role-play, students will learn to use Chinese in speech and writing in common, real-life scenarios.
CHM 1032   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. 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. A grade of "C-" or higher is required in prerequisite courses. Satisfies Florida Common Core Natural Sciences requirement.

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. 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. A grade of "C-" or higher is required in prerequisite courses. Satisfies UWF Breadth requirement in Natural Sciences.

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. A grade of "C-" or higher is required in prerequisite courses.

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.
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 3741L Advanced Laboratory Techniques
2 sh (may not be repeated for credit)
Prerequisite: CHM 2211L AND CHM 3230*

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)

CHM 3940 Chemistry Internship
1 sh (may not be repeated 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 3940L Chemistry Internship Lab
1 sh (may not be repeated for credit)

CHM 3940L 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 3940L Chemistry Internship Lab
1 sh (may not be repeated for credit)

CHM 3940L 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 3940L Chemistry Internship Lab
1 sh (may not be repeated for credit)

CHM 3940L 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 3940L Chemistry Internship Lab
1 sh (may not be repeated for credit)

CHM 3940L 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 3940L Chemistry Internship Lab
1 sh (may not be repeated for credit)

CHM 3940L 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 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 12.000 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 4930  Seminar: Special Topics in Advanced Chemistry
3-4 sh (may be repeated for up to 12.000 sh of credit)
Prerequisite: CHM 3400C OR CHM 3411
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 5932; graduate students will be assigned additional work.

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
3 sh (may not be repeated for credit)
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
1 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.

* This course may be taken prior to or during the same term.

CHS-Chemistry: Specialized Courses

CIS-Compt Sci Inform Systs Courses

CIS 2530  Introduction to Cyber Security
3 sh (may not be repeated for credit)
This course introduces students to cyber security. It provides information related to cyber threats as well as the basic security design and information assurance fundamentals. In addition the course covers information assurance controlling laws and guidelines. Satisfies UWF Breadth requirement in Natural Sciences.

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 Meets Gordon Rule Writing Requirement.

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 Meets Gordon Rule Writing Requirement.

CIS 3949  Cooperative Education
1-2 sh (may be repeated for up to 4.000 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 OR COP 2334* OR COP 2830 OR 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 designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This undergraduate course is a requirement for the B.S. in Cybersecurity and will be an elective for all other undergraduate Computer Science programs. Prerequisites: COP 4710, minimum grade of C-.

CIS 4385  Ethical Hacking and Penetration Testing
3 sh (may not be repeated for credit)
Prerequisite: COP 3022 OR 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. The tools and methodology will focus on gathering information and identifying flaws and vulnerabilities in documentation, software and computer systems, and exploiting those flaws. 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 be provided with an overview of computer crime laws. 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) OR (CNT 4007C AND COP 4610) OR COP 4635

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 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. Juniors or seniors with minimum cumulative GPA of 3.00 will be eligible. Permission is required.

CIS 5396  Ethical Hacking and Penetration Testing
3 sh (may not be repeated for credit)
Prerequisite: CDA 6415 AND COP 6025

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. The tools and methodology will focus on gathering information and identifying flaws and vulnerabilities in documentation, software and computer systems and exploiting those flaws. 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 be provided with an overview of computer crime laws. 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 6379  Applied Information Security
3 sh (may not be repeated for credit)

This course covers a variety of topics which range from information security fundamentals to the management and planning aspects of information security. Students in this course will learn to design and create information security policies, disaster recovery and risk analysis & mitigation plans. Students will also learn about security models and various physical and technical security controls.

CIS 6394  Digital Forensics
3 sh (may not be repeated for credit)

This course will cover basic concepts and provide a solid foundation for performing a digital forensic examination; introduces tools and techniques required for conducting a forensic analysis on systems and data pertaining to evidences in civil, criminal or administrative cases. It introduces systematic problem-solving techniques and applies them to digital investigations. The theories directly correlate to methods used to recover/restore data for various requirements, ranging from litigation to fraud based investigations.

CIS 6415  Advanced Computer Systems and Networks
3 sh (may not be repeated for credit)

Examines current advancements in computer hardware, operating systems and networks. their relation to each other, and programming practices that takes advantage of them. Topics include pipelined, hyperthreaded, multicore and multiprocessor architectures, scheduling methods, distributed and real-time systems, high-speed networks, routing, congestion and flow control, and quality of service.

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 12,000 sh of credit)

Graded on satisfactory / unsatisfactory basis only. Permission is required.

* This course may be taken prior to or during the same term.

**CJC-Corrections Courses**

CJC 4010  Corrections
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  Community Corrections
3 sh (may not be repeated for credit)

Introduces the student to the subject of community corrections including social, political, and economic conditions that have contributed to the development of community corrections. Identifies the types of community corrections 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.

**CJE-Law Enforcement Courses**

CJE 3174  Comparative Criminal Justice
3 sh (may not be repeated for credit)

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.

CJE 3444  Crime Prevention
3 sh (may not be repeated for credit)

Provides a foundation of various methods of community crime prevention (prevention outside the traditional confines of the CJS) 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.

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  Policing  
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.

CJJ-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.

CJL-Law and Process Courses  

CJL 3510  Courts  
3 sh (may not be repeated for credit)  
Examination of the judicial component of the criminal justice system. Analysis of structure, procedures, and personnel of American courts. General discussion of the political and social influences on the judicial process and organization.

CJL 5521  Courts and Society  
3 sh (may not be repeated for credit)  
Analyzes the role of courts in American Society. Examines the various influences on judicial organization, process, and decision making. The impact of courts within society and the criminal justice system are also explored.

CLP-Clinical Psychology Courses  

CLP 3008  Psychology of Personal Growth  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012  
Psychology of Personal Growth is an experiential, theme-oriented class exploring life choice in the struggle for personal autonomy, adjustment, and growth. Themes for this class include review of childhood and adolescence, adulthood and autonomy, work and leisure, body image, gender roles, culture, sexuality, love, relationships, loneliness, death and loss, meaning, and values.

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)

Students must take CLP 3144 before enrolling in this course. 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)

**CNT-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

This course provides students with an understanding of the concepts of computer and network security using currently available technology. The course provides students with an understanding of the options available to mitigate threats within a system and teach students the techniques that can be taken to protect a network and communication assets from cyber threats.

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 6519  Wireless Network Security
3 sh (may not be repeated for credit)

The objective of the course is to study and understand the security and research challenges of existing and emerging wireless networks. Students will learn about various security issues such as key management, privacy, authentication and secure data aggregation and the algorithms used to resolve these issues.

**COM-Communication Courses**

COM 2203  Communication Dynamics
3 sh (may not be repeated for credit)

This course provides a theoretical foundation for understanding communication in the workplace, personal relationships, and mediated environments. Students will master the basics of conflict management, listening, nonverbal communication, strategic use of language, interviewing, leadership, teamwork, and intercultural communication. The course provides a foundation for advance-level studies in communication and helps students master communication proficiencies essential to success in professional and personal life.

COM 2713  Writing for the Communication Professions
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102

This introductory course exposes students to writing for communication professions such as advertising, public relations, and journalism. Students strengthen grammar and develop the writing skills necessary for specific forms of writing. Students will explore various types of writing such as newswriting, public relations writing, and advertising copy. Students will become familiar with Associated Press Style.

COM 3003  Integrated Advertising & Public Relations Concepts
3 sh (may not be repeated for credit)
Prerequisite: COM 2713

Three hours. Survey of advertising and public relations methods. Emphasis on preparation of advertisements, professional communication strategies and tactics, use of industry standard research methods, and communication campaigns. This course serves as the foundation for all other advertising & public relations courses.

COM 3014  Gender Communication
3 sh (may not be repeated for credit)
Prerequisite: COM 2713

Examines the roles gender plays in managing diversity in the workplace, developing personal relationships and exploring mass media in contemporary culture. This course is designed to increase your understanding of gender as it is constructed, performed, evaluated, and negotiated through communication. Meets Multicultural Requirement.

COM 3365  Conflict Management
3 sh (may not be repeated for credit)

This course focuses on the management of conflict through effective communication. Hands on student learning is emphasized. The course offers the theoretical investigation of communication barriers and breakdowns in interpersonal and public settings. The areas of interpersonal, organizational, cross-cultural and moral conflicts are highlighted.
COM 3461  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 and pursuing a more just global society. Meets Multicultural Requirement.

COM 3905 Directed Study
1-12 sh (may be repeated indefinitely 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 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 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)
Prerequisite: SPC 3301
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 4301 Communication Research
3 sh (may not be repeated for credit)
This course will examine primary and secondary research methods useful to comprehensive communication investigation and integrated public relations/advertising campaigns.

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 6.000 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 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
1.5-3 sh (may be repeated for up to 9.000 sh of 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.

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 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 qualitative 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 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.

COP-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 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 to solve complex problems in a secure and robust manner.
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 3665   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   Server-Side Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 3014
A course in principles of server-side technologies that form the core of classical three-tier applications. This course provides a solid foundation for the concepts of server-side programming, using a current server-side programming/scripting language.

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 4331 AND COP 4534) OR (COP 3022 AND COP 3530)
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 on 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 4331   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 polymorphis. 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 4530   Data Structures and Algorithms II
3 sh (may not be repeated for credit)
Prerequisite: COP 3530 AND COP 3100
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 4710  Database Systems
3 sh (may not be repeated for credit)
Prerequisite: 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.

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 4864  Client-Side Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 4864

A course in principles of client-side technologies that form the
complement of server-side applications. This course provides a
solid foundation for the concepts of client-side programming and an
introduction into client-side frameworks.

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 5775  Database Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 5007*

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.

COP 5775  Database Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 5725

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.

COP 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

COP 6025  Advanced Programming Languages
3 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. Knowledge of COP4020 or COT4420 is
necessary for success in this course.
COT 6727 Advanced Database Systems
3 sh (may not be repeated for credit)
Prerequisite: COP 5725
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.

COT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

COT-Computer Science Courses

COT 3100 Discrete Structures
3 sh (may not be repeated for credit)
Prerequisite: (COT 2523 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: (COT 2253 or COP 2334 or COP 3014) and (MAC 2233 or MAC 2311) minimum grade of C-.

COT 4420 Theory of Computation
3 sh (may not be repeated for credit)
Prerequisite: (COP 3530C or COP 3530) AND (MHF 3202)
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 5930 Computer Science Seminar
3 sh (may be repeated for up to 6.000 sh of credit)
A seminar-style course that provides graduate students with an overview of trends in Computer Science research and development, as well as prepares students for conducting independent research. Specific topics include trends in CS research, software development, and research methods. Permission is required.

COT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

COT 6931 Computer Science Project
3 sh (may be repeated for up to 6.000 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.

CPO-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. Satisfies UWF Breadth requirement in Social Sciences. 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. Meets Multicultural Requirement.

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. Meets Multicultural Requirement.

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 with 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 4074  Political Economy
3 sh (may not be repeated for credit)
This course has two objectives in mind. One is to inquire into methods of analysis that borrow certain ideas from economics, such as self-interest and incentives, to the study of politics. One might call this the methodological objective. The other objective is to examine the reciprocal relations between government and the domestic economy. Specifically, it surveys what political scientists and public intellectuals have said about the effect of economic conditions on regime survival and elections, on the one hand, and on the other the impact of regime type and public policy on various measures of the general welfare as economic growth, human development, and income or wealth inequality. We shall begin with excerpts from ancient and modern thinkers, then proceed to analyze scholarship by contemporary political scientists and political economists.

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 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 5769  Religion and International Politics
3 sh (may not be repeated for credit)
This course analyzes how religious beliefs and institutions shape politics that cross borders. It draws upon an array of writings to examine major global phenomena like the religious roots of international order; religious challenges both to modern states and to recent globalization; and activism amongst global religious movements. In turn, the course concentrates on two major issues for scholars, policy- makers and citizens alike: 1) international religious extremism and violence and 2) religious influences on ? and targets of ? U.S. foreign policy. Examples of topics covered along the way include Evangelical activism and ideologies, religious terrorism and the Israeli-Palestinian conflict. This course is offered concurrently with CPO 4761; graduate students will have additional work.

CPO 5779  Radicalism and Extremism
3 sh (may not be repeated for credit)
Political radicals and political extremists reside outside of the boundaries of mainstream politics because they diverge sharply in their ideological orientation strategy and tactics relative to the parties of the political center. This course focuses on the ideology, discourse, goals and actions of certain parties and groups on the ?fringe? of politics. Emphasis is placed on conceptualizing the terms ?radical? and ?extremist? to develop an understanding of how these groups stand apart from the mainstream. Comparative cases will be examined ranging from consideration of a wide variety of American radicals on both the political right and political left, European radical right political parties, religious radicals and fundamentalism, and Middle Eastern radical Islam. We will characterize various extremist groups, discuss strategies and tactics, explore factors that catalyze such groups, and consider their impact and significance on policy but also on governance and society. This course is offered concurrently with CPO 4774; graduate students will have 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 relate 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)

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CRW-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. Meets Gordon Rule Writing Requirement.

CRW 2905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

CRW 3110  Fiction Writing
3 sh (may be repeated for up to 6.000 sh of 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 be repeated for up to 6.000 sh of credit)
Workshop in writing poetry. Practice in traditional forms and extensive work in contemporary free verse.

CRW 3424  Playwriting
3 sh (may be repeated for up to 6.000 sh of 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 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

CRW 4211  Creative Non-Fiction
3 sh (may be repeated for up to 6.000 sh of 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 12,000 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.

CTS-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 4634 OR 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. Course may be offered concurrently with CTS 5349 and credit will not be given for both CTS 4348 and CTS 5349.

CTS 4817  Web Server Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR 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)
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. Offered concurrently with CTS 4348; graduate students will be assigned additional work.

CYP-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 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

DAA-Dance: Emphs 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 2.000 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 2.000 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 2.000 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)

DAN-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.

DAN 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

DAE-Dance Education Courses

DEP-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. Satisfies UWF
Breadth requirement in Social Sciences.

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 4222  Autism Spectrum
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 OR CLP 3144 OR DEP 3103
The autism course provides an opportunity for students to learn about
autism spectrum disorders (ASD), research methods, the diagnostic
process, and programs for assisting individuals identified as having
ASD, their families, and professionals who work with them. The course
counts three semester hours and is fully online.

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 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

DIG - Digital Media Courses

DSC-Domestic Security Courses

DSC 3012  Terrorism
3 sh (may not be repeated for credit)

DSC 3013  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.).

DSC 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

DSC 3102  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  
3 sh (may not be repeated for credit)  
Critical analysis of major issues related to the study of terrorism. From initially critiquing the numerous conceptualizations of terrorism, the course will then evaluate theories of terrorist activity, the organizational and financial structure of terrorist cells, and the different tactics terrorists adopt in order to fulfill their objectives. The course will explore the contentious and oftentimes violent history of the Middle East and how this part of the world has spawned the development of multiple terrorist groups. Scientifically-based methods of inquiry will be utilized in the study of the extent and impact of terrorism on society.

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.

DSC 6045 Homeland Security  
3 sh (may not be repeated for credit)  
This course will provide students a critical assessment of the larger history, purpose, function and effectiveness of homeland security initiatives. In so doing, we will evaluate the different threats posed to the homeland, the way we prepare for them, the law surrounding our response to homeland security as well as the different agencies tasked with minimizing threats to the homeland. Analyzes homeland security efforts geared towards the fight against terrorism and those directed at minimizing threats from natural disasters, technological hazards, cyber and transportation attack. Scientifically-based methods of inquiry will be utilized in the study of the extent and impact of homeland security efforts.

**EAS-Aerospace Engineering Courses**

EAS 4020 Introduction to Flight  
3 sh (may not be repeated for credit)  
Prerequisite: EML 3016  
Basic aerodynamics, airfoil design and characteristics, and flight control surfaces.

**ECP-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 4314 Natural Resources Economics  
3 sh (may not be repeated for credit)  
Prerequisite: ECO 2023  
The impact of human activity on the natural world raises a myriad of issues for society. Efficient management of our natural resources requires understanding of both economic and physical factors. Decisions on resource use affect everyone, with impacts that may come immediately or in the future. This course uses economic tools to analyze those decisions and the resulting impacts. Methods developed in the first part of the course are used to examine applied problems in selected areas such as mineral extraction, energy, forestry, fisheries, water, agriculture, outdoor recreation, wildlife management, and biodiversity.
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 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)

**ECP-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. Satisfies Florida Common Core Social Sciences requirement.

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

ECO 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
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.

- **EDA 5905  Directed Study** 1-12 sh (may be repeated indefinitely for credit)
- **EDA 6905  Directed Study** 1-12 sh (may be repeated indefinitely for credit)

### ECS-Econ Systems Development Courses

- **ECS 6905  Directed Study** 1-12 sh (may be repeated indefinitely for credit)

### EDA-Educational Administration Courses

- **EDA 3905  Directed Study** 1-12 sh (may be repeated for up to sh of credit)
- **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 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** 6 sh (may not be repeated for credit)
  Prerequisite: EDA 6063
  Students will focus on problems, practices and theories pertinent to the success of building level administrators in elementary, middle and high schools. This course includes planning, staffing, implementation and evaluation techniques necessary to administer an effective school program. Practicum experiences are designed to provide a clinical setting for the demonstration of theory applied to practice and will be an integral part of the course.
- **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 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.
- **EDA 8103  Theories of Administration and Leadership** 3 sh (may not be repeated for credit)
  This course will address theories and theorists focused in the areas of administration, management and leadership. The course will include completing a literature review, developing a theoretical framework, and examining foundational constructs of multiple theorists.

### EDE-Educational: Elementary Courses

- **EDE 3905  Directed Study** 1-12 sh (may be repeated indefinitely for credit)
- **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 SCE 4310*) AND (LAE 3314* OR MAE 4310* OR SSE 4113))
  This course is 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.
EDE 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDE 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDE 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.

**EDF-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)

The course focuses on principles of growth, development and learning in the context of teaching in contemporary schools, and may include observation/participation in educational settings. Methods of formal and informal assessment, measurement, and evaluation are addressed, as is the analysis of educational phenomena in America and other countries from interpretive, normative and critical perspectives.

EDF 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

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 6222  Concepts of Applied Behavior Analysis
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226

Concepts of Applied Behavior Analysis using B.F. Skinner's writings as a primary source in addition to other historical contributors to the field. The course may be organized around a given theme.

EDF 6223  Positive Behavioral Change and System Support in Educational Settings
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225 AND EDF 6226

This course provides information on the fundamental elements of behavior change and specific behavior change procedures. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Fourth Edition Task List. This course serves as the third in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the third in a series of four courses that prepares students to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6225  Foundations of Applied Behavior Analysis in Education
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225

This course serves as a basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts. The content is based on the Behavior Analyst Certification Board (BACB) Foundational Knowledge Companion to the BACB Fourth Edition Task List in its entirety. This course serves as the first in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the first in a series of four courses that prepares students to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6226  Behavioral Assessments, Interventions, and Outcomes in Education
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225

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 6227  Experimental Analysis of Behavior
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225 AND EDF 6226 AND EDF 7437 AND EDF 7944

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 6222  Concepts of Applied Behavior Analysis
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226

Concepts of Applied Behavior Analysis using B.F. Skinner's writings as a primary source in addition to other historical contributors to the field. The course may be organized around a given theme.

EDF 6223  Positive Behavioral Change and System Support in Educational Settings
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225 AND EDF 6226

This course provides information on the fundamental elements of behavior change and specific behavior change procedures. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Fourth Edition Task List. This course serves as the third in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the third in a series of four courses that prepares students to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6225  Foundations of Applied Behavior Analysis in Education
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225

This course serves as a basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts. The content is based on the Behavior Analyst Certification Board (BACB) Foundational Knowledge Companion to the BACB Fourth Edition Task List in its entirety. This course serves as the first in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the first in a series of four courses that prepares students to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6226  Behavioral Assessments, Interventions, and Outcomes in Education
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225

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 6227  Experimental Analysis of Behavior
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225 AND EDF 6226 AND EDF 7437 AND EDF 7944

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 6222  Concepts of Applied Behavior Analysis
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226

Concepts of Applied Behavior Analysis using B.F. Skinner's writings as a primary source in addition to other historical contributors to the field. The course may be organized around a given theme.
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 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 6557  Ethics in Applied Behavior Analysis
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226
In this course, participants learn the issues relevant to ethical and
professional conduct in applied behavior analysis including consent,
conflict of interest, assessment, behavior change, monitoring,
reporting, and applicable law. The content is based on specific topics
via the Behavior Analyst Certification Board (BACB) Professional and
Ethical Compliance Code for Behavior Analysts. This course serves
as one of the final courses in a series of six courses that prepares
students to apply for the Board Certified Behavior Analyst (BCBA)
exam. Students requiring additional hours in ethics for the Board
Certified Associate Behavior Analyst (BCaBA) exam are also welcome
to take this course.

EDF 6602  Trends and Issues in Education: Social, Multicultural,
Historical and Philosophical Analysis
3 sh (may not be repeated for credit)
Enables students to develop skills as empowered persons and
professionals and use critical and analytical thinking skills to
demonstrate an understanding of the history and philosophy of
education and an increased awareness of multicultural and other
critical issues in education.

EDF 6691  Issues in Teacher Education: A Bio-Psycho-Social
Perspective
3 sh (may not be repeated for credit)
A holistic approach to understanding and educating children will be
developed through the perspectives of various theories of learning and
development. A focus on understanding the biological, psychological
and social factors that affect child development and learning will be
emphasized and inform one’s understanding of various issues in
education and best practices in the classroom.

EDF 6725  Critical Issues in American Education
3 sh (may not be repeated for credit)
Major issues in American education which confront educational
leaders. Problems growing from these issues are considered.

EDF 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
EDF 6943  Supervised Experience in Single Case Design
1-3 sh (may be repeated for up to 9.000 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)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226
This course provides students with concepts in measurement and
design of single case methodology to establish reliable intervention
procedures, positive behavior change, systems support, while adhering
to management, supervision, and ethical and professional issues
relevant to the practice of behavioral intervention and research design.
The content is based on specific topics via the Behavior Analyst
Certification Board (BACB) Fourth Edition Task List. This course
serves as the fourth in a series of six courses that prepares students
to apply for the Board Certified Behavior Analyst (BCBA) exam or the
final in a series of four courses that prepares students to apply for the
Board Certified Associate Behavior Analyst (BCaBA).
EDF 7468  Advanced Program Development and Evaluation
3 sh (may not be repeated for credit)
Prerequisite: EDF 6464

Focusing on leading evaluation approaches and providing an in-depth examination of evaluation theory, this course will encourage students to critically examine and discuss current and emerging variations in theoretical evaluation development. These relationships will be analyzed through an applied research perspective designed to illuminate and evaluate the effectiveness of organizational program strategies dealing with societal concerns. Grant funding methods will be introduced as an intervention tool in this process.

EDF 7475  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 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 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 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 7730  Administration and Leadership Communication Techniques
3 sh (may not be repeated for credit)

This course will focus on specific effective professional communication efforts of administrators and leaders from military, social agencies, educational settings, and organizational environments, including non-profit agencies and organizations. Skills emphasized in the course include: Oral and written presentations for varied audiences and technology-rich communications for leading organizations and developing communicative organizational environments.

EDF 7790  Foundations of Doctoral Research and Writing
3 sh (may not be repeated for credit)

The central purpose of this course is to provide students with the information and orientation needed to successfully navigate the doctoral program. In addition to reviewing the policies and procedures of doctoral study (choosing an advisor, engaging in coursework, forming a committee, taking preliminary/comprehensive exams, designing a research study, conducting research, and defending a prospectus and dissertation), students will also study the behaviors and dispositions needed to be an educational researcher and scholar, including what it means to read, think, and write critically. Students will explore how to develop a sense of themselves as a scholar and to take ownership over their own education, including setting goals, identifying opportunities, and developing a research agenda. In addition, the course will include an introduction to research designs.

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)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226 AND EDF 7437

This course provides students with an applied environment to practice measurement and design of single case methodology using reliable intervention procedures, positive behavior change, systems support, while adhering to management, supervision, and ethical and professional issues relevant to the practice of behavioral intervention and research design. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Fourth Edition Task List. This course serves as the fifth in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam.

EDF 8088  Diversity & Civil Rights in Education
3 sh (may not be repeated for credit)

The purpose of this course is to analyze, synthesize, and evaluate the ideological, cultural, political, economic, and educational delivery systems in the segregated South. Analysis of oppressive systems, literature, primary sources, sites, and biographies that inspired the acceptance of diversity are evaluated.
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 8466  Assessing Educational Programs
3 sh (may not be repeated for credit)
Prerequisite: EDF 7667
The course examines current evaluation models used to assess programs implemented in various educational settings. Students will explore and analyze the application of evaluability assessment in multiple settings and the use of methodological scoping as part of evaluability assessment. Additionally, students will utilize various models and instruments to evaluate existing educational programs.

EDF 8486  Advanced Quantitative Research and Statistics
3 sh (may be repeated for up to 9.000 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.

EDF 8785  Research Ethics
3 sh (may not be repeated for credit)
Prerequisite: EDF 7407
Focusing on research integrity issues facing researchers in the social and behavioral sciences and providing an in-depth examination of the responsible conduct of research principles and practices, this course will encourage students to critically examine and discuss current and emerging trends in research ethics, including conducting research, research design considerations, methodologies, data acquisition data analyses, and communicating findings. These issues will be analyzed through an applied research perspective designed to illuminate and evaluate the integrity of research efforts dealing with societal concerns. In addition, writing, publishing, and presenting relative to research ethics and topics explored in the course.

EDF 8888  Seminar: Special Topics Related to Minority Groups
3 sh (may be repeated for up to 9.000 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 8905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDF 8936  Advanced Qualitative Research and Strategies: Special Topics
3 sh (may be repeated for up to 9.000 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.

EDF 8937  Research Applications
3 sh (may not be repeated for credit)
This course will engage Ed.D. students in applying advanced research methods in application areas specific to their specializations. The course will involve dissertation research methods and writing skills as well as field site activities and data analysis. The course will also include activities focused on presenting and publishing research findings. Permission from the instructor is required.

EDF 8980  Dissertation
1-6 sh (may be repeated for up to 18.000 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.

EDG-Education: General Courses

EDG 2905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
This course provides K-12 pre-service teachers with dynamic methods of planning, presenting, and assessing literacy instruction for all learners. Course content and learning activities focus on applying knowledge and skills related to effective teaching and learning in the various content areas.

EDG 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 3945  Field Experience I
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234

This field experience includes carefully planned and designed course assignments and activities, with students working in a classroom setting for a minimum of 100 hours in a field placement. Successful students will develop proficiency on the Florida Educator Accomplished Practices Competencies. This experience includes: focused and specific observations, activities, and reflection with the purpose of directly connecting the teacher education curriculum to the practical aspects of teaching in a classroom setting. Permission is required.

EDG 4077  Learning In Informal Environments
3 sh (may not be repeated for credit)

Students will explore the variety of settings that offer informal learning opportunities such as museums, science discovery centers, child care programs, outdoor programs, adult and continuing education. The demands of these environments are varied and are often considered free-choice education options. Therefore, the skills and tools for communicating messages to varied audiences in these settings can be very different from the traditional classroom instruction. We will explore and practice motivation, communication, interpretation, design, evaluation, and promotion.

EDG 4334  Universal Design for Learning in Informal Learning Environments
3 sh (may not be repeated for credit)

This course will prepare students to use the Universal Design for Learning (UDL) framework to create learning experiences for a wide variety of learners across the life span in non-classroom settings such as child care settings, museums, after-school programs, adult learning centers, and libraries. Specifically, students will explore UDL principles including multiple means of representation, action and expression, and engagement. Students will use UDL resources and strategies for planning and evaluating inclusive learning experiences.

EDG 4345  Educational Assessment
3 sh (may not be repeated for credit)

This general assessment course is 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; (4) using assessment data to develop instructional plans; and (5) using specialized assessment tools to meet varied student needs.

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 4413  Classroom Management
3 sh (may not be repeated for credit)

This course focuses on strategies for effective classroom management, with learning activities related to building relationships, organizing the classroom, developing and implementing rules and procedures, teaching effectively, utilizing positive behavior management, and implementing behavioral interventions.

EDG 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 4931  Capstone Seminar in Informal Learning and Education
6 sh (may not be repeated for credit)

This course provides opportunity for students to demonstrate their achievement of the goals of the Interdisciplinary Social Sciences (ISS) program. The course is designed as a student-centered, content-related learning experience and serves as a summary and synthesis of the experiences in the ISS program. The process and products of the course are designed to assess cognitive, affective, and dispositional outcomes appropriate to the students' chosen focus of study.

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)
Co-requisite: EDG 4936

The course involves a minimum of ten weeks of supervised teaching in a public or private school assigned to the student by the TEEL Field Placement Office and approved by the TEEL Chair. This is a full-time assignment, and students may not take additional coursework or maintain employment during the student teaching experience without prior approval from the TEEL Chair. Performance in student teaching is graded on a satisfactory/unsatisfactory basis only.

EDG 4941  Teaching Internship I
1-12 sh (may not be repeated for credit)

Teaching Internship I is designed to be the culminating experience for those preparing to become a professional educator. This elite program will provide the student with a 10 month placement in which they will apply all the knowledge they have gleaned from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a master teacher. Phase 1 of this year-long supervised teaching experience in public and private schools will focus on planning and executing effective instruction. 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
1-12 sh (may not be repeated for credit)
Prerequisite: EDF 4941

Internship Internship II is designed to be the culminating experience for those preparing to become a professional educator. This elite program will provide the student with a 10 month placement in which they will apply all the knowledge they have gleaned from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a master teacher. Phase 2 of this year-long supervised teaching experience in public and private schools will focus on classroom management and professional development. (Students will register for this series in successive semesters) Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 4944  High Impact Practice Practicum
3 sh (may not be repeated for credit)
Prerequisite: EDG 4947

Students will complete a 10-week high-impact learning experience that integrates service learning and reflection to support career success. The overarching intent of the course is to make linkages between academic content, and applied service learning experience, and students’ career plans.

EDG 4947  High-Impact Practice Seminar
3 sh (may not be repeated for credit)
This seminar course will present the concept of high-impact practices (HIPs) with an emphasis on collaborative assignments, service-learning, and self-reflection. Students will investigate, analyze, and apply HIPs in varied informal education settings. Learning activities will include students working collaboratively to develop a service learning project to address a community need.

EDG 4949  Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EDG 3945 AND RED 4542* AND TSL 4081*

Students in this course will complete a minimum of 100 hours of supervised work in an assigned educational setting, with 25 hours devoted to an ESOL placement. Students will continue to build connections between theory and practice, demonstrating competency on the Florida EducatorAccomplished Practices (FEAPs) and ESOL Performance Standard. Specific learning activities include observation, planning, implementation of planned learning experiences, and assessment of students from diverse backgrounds including students identified as culturally and linguistically diverse (English Language Learners - ELL). Permission is required.

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 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 5342  Effective Teaching and Instruction
3 sh (may not be repeated for credit)

This course is designed to allow participants to explore effective teaching practices and strategies to enhance student learning in the K-12 classroom. Course content begins with a brief overview of research on learning and cognition with an emphasis on implications for classroom practice. Following that, students will investigate research-based effective teaching practices within and across multiple subject areas (e.g., mathematics, history, science) and then deconstruct and reflect on the use of various evaluation models (e.g., Marzano, Danielson) currently being used to gauge and improve the quality of classroom instruction. Lastly, collaborative professional learning strategies for supporting teachers in improving their instruction will be introduced and practiced.

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 5349  Advanced Methods for Math, Science and Social Studies
3 sh (may not be repeated for credit)

In Advanced Methods, Students explore instructional models for teaching in math, science and social studies. Students investigate various models of teaching including inquiry, synectics, problem solving, socratic, cooperative and inductive in order to apply them to their classroom. Students examine the rationale and research supporting each model as well as real-world examples.

EDG 5366  Investigative Strategies and Empirical Foundations in Learning and Development
3 sh (may not be repeated for credit)

This course is an introduction to the foundations of empirical research, investigative strategies, and data sources used to study issues in teacher education. It provides an overview of the elements of the research process through the critical analysis of quality peer-reviewed journal articles. The purpose of this course is to provide students with the basic skills and knowledge to identify, analyze, and interpret empirical research; to identify the elements of the research process; and to apply quality peer-reviewed research findings in practice.
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 5905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDG 5940  Graduate Student Teaching  
1-6 sh (may be repeated for up to 6,000 sh of credit)  
Graded on a satisfactory/unsatisfactory basis only.

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 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  
3 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 6415  Issues in Classroom Management  
3 sh (may not be repeated for credit)  
This course is designed for educators with existing capacity regarding classroom management and is intended to advance their understanding and develop a knowledge of systematic models of classroom management. The content will focus on shaping teacher behaviors and structuring the classroom for success. Additionally, focus will be placed on recognizing the various and competing philosophies of classroom management and the benefits of using a systematic model within a classroom or school.

EDG 6662  Integrated Curriculum and Instruction  
3 sh (may not be repeated for credit)  
This is an advanced curriculum course for graduate level education students with a focus on blending content areas to maximize student learning and to prepare teachers to meet the needs of all students across the curriculum. Students will demonstrate competencies through the successful completion of a collaborative interdisciplinary unit, individual lesson plans utilizing differentiated instruction, a best practices research paper and presentation, and a reflective blog analysis.

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 6916  Action Research  
3 sh (may not be repeated for credit)  
Prerequisite: RED 6747 OR EDG 6918

The capstone course in the research sequence involves implementation of the previously-developed action research proposal, in which a problem in the area of education or related field was identified. In this course, the proposed action research project will be implemented. The completed project will consist of a scholarly written paper that adheres to current APA style guidelines.

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. The proposal developed in this course will be implemented in a subsequent course, Action Research.

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 7008 Assessment Literacy
3 sh (may not be repeated for credit)
This course explores various research-based approaches to assessing
student learning; educational programs; and organizational structures,
systems, and cultures. Learning activities focus on various approaches
to assessing student learning in addition to the role of assessment in
various models of measurement and evaluation.

EDG 7070 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 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 7256 Assessing Curricula
3 sh (may not be repeated for credit)
This course provides an introduction to various methods for assessing
the effectiveness of reform-based curricula in educational settings,
including changes in learners' knowledge, skills, and affect.

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
cohousing techniques and strategies effective in orchestrating change in
instructional practices will also be a focus.

EDG 7354 Test, Measurement, & Data Literacy
3 sh (may not be repeated for credit)
This course explores varied constructs and concepts in measurement
theory, test construction, reliability and validity, item analysis in test
development, and test scoring and interpretation.

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 7667 Evaluating Models of Curriculum & Assessment
3 sh (may not be repeated for credit)
With a focus on learning outcomes, this course aims to broaden
students' knowledge about designing and assessing curricula in
various educational settings ranging from K-12 to higher education.
Using various change models, this course offers a practical approach
to systemic change with a focus on the relationship between courses
and the curriculum.

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 8938 Seminar: Advanced Methods in Assessment and
Evaluation
3 sh (may not be repeated for credit)
This course is focused on building capacity for the appropriate
selection and utilization of advanced techniques for designing and
performing assessment and evaluation analyses.

EDG 8980 Dissertation
1-18 sh (may be repeated for up to 18.000 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.

* This course may be taken prior to or during the same term.
**EDH-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 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 6.000 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.

EDM-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)

EDP-Educational Psychology Courses
EDS-Education: Supervision Courses
EDS 5905   Directed Study
1-12 sh (may be repeated indefinitely for credit)

EEE-Electrical Electron Eng Courses
EEE 3308   Electronic Circuits I
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308L* 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 3308L  Electronics Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308* AND EEL 3111L
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 3396   Solid-State Electronic Devices
3 sh (may not be repeated for credit)
Prerequisite: (EEL 3111) AND (CHM 2045 OR CHM 1045 OR CHM
1045C)
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/L AND EEE 4306L* 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/L AND EEE 4306* 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 3472  Electromagnetic Fields and Applications I
3 sh (may not be repeated for credit)
Prerequisite: (PHY 2049 OR PHY 2049C) AND (MAC 3212)
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: (MAC 2311* OR MAC 1114 OR MAC 2312) AND
(EEL 3701L*)
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 I
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 4287  Future Energy Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111
Study and analyze renewable energy sources and their integration into the grid, microgrid, smart grid power management, plug in electric vehicles, modern energy storage technologies, energy efficient buildings, cyber security and other new technologies that are revolutionizing the power industry.

EEL 4290  Sustainable Power Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 4287
Key technical and economic characteristics of power systems and their interaction in the design and operation of markets that foster environmental, economic, and security stability in today's complex power systems.

EEL 4514  Communication Systems and Components
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112 AND EEL 3135 AND EEL 4514L* AND EGM 4313
Theory of communication, and applications to radio, television, telephone, satellite, cellular telephone, spread spectrum, and computer communication systems. A grade of "C" or better is required in the prerequisite(s).

EEL 4514L  Communication Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308L AND EEL 4514*
Experiments with communication circuits and radio frequency instruments, devices, and measurements. Material and Supply Fee will be assessed.

EEL 4635  Digital Control Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111 AND MAP 2302
A study of the digital computer as a control element, classical sampled data control theory, and application with microcomputers.

EEL 4657  Linear Control Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111 AND EEL 4657L* AND MAP 2302
Theory and design of linear control systems.

EEL 4657L  Linear Controls Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 4657*
Practical applications of linear control theory.

EEL 4663  Elements of Robotics
3 sh (may not be repeated for credit)
Prerequisite: (MAP 2302) AND (EGM 4313 OR EGM 3344)
An introductory course in the multidisciplinary field of robotics with analysis and design of robots and robotic tasks. Includes class projects in robot programming and design. A grade of "C" or better is required in the prerequisite(s). Material and supply fee will be assessed.

EEL 4712  Digital Design
3 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701)
Co-requisite: EEL 4712L
Advanced modular logic design, design languages, finite state machines, and binary logic. A grade of "C" or better is required in all prerequisites.

EEL 4712L  Digital Design Laboratory
1 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701*)
Co-requisite: EEL 4712
Design and applications of advanced digital logic using VHDL.

EEL 4713  Digital Computer Architecture
3 sh (may not be repeated for credit)
Prerequisite: EEL 4712

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 be repeated indefinitely 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 6.000 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 3.000 sh of credit)
Prerequisite: EEL 3111 OR EEL 3701 OR EEL 4834

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 co-op advisor is required.

EEL 4949  Co-Op Work Experience
1 sh (may be repeated for up to 4.000 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, breaches 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.

* This course may be taken prior to or during the same term.

EET-Electronic Engin Tech Courses

EEX-Educ:Excep Child-Core Comp Courses

EEX 3070  Methods in Inclusion and Collaboration
3 sh (may not be repeated for credit)

This course is required for all education majors. The course provides students with background knowledge related to Special Education issues including laws and regulations, terminology, disability categories, and common school practices. Students are also challenged to learn the skills necessary to work collaboratively within an educational environment to include students with disabilities, while meeting their individual educational, behavioral, and social needs. Evidence-based instructional and classroom management strategies will also be presented.

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)

This course is designed to help teachers (ESE and general education) better understand the nature of speech and language development and common problems that students may experience during their developing years. Characteristics of common speech & language problems and interventions for classroom teachers are highlighted.

EEX 4254  Instructional Strategies for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 3070

Through lecture, discussion, and projects, this course provides an introduction to a comprehensive knowledge base pertinent to the nature and needs of students with exceptional needs. Course content focuses on current legislation, professional practices, trends, and research, and students will learn about and explore current evidence-based practices that support student success. Additional emphasis is placed on identifying specific instructional strategies developed for students who struggle in subject-specific content areas.

EEX 4255  Curriculum for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 3070

This course prepare pre-service teachers to effectively utilize specialized curriculum and research-supported practices for teaching students with high incidence disabilities (learning disabilities, emotional/behavioral disorders, and intellectual disabilities) in inclusive, general education environments; to analyze and evaluate curriculum standards and resources; and to interpret assessment results to generate data-based decisions for individualized, instructional programs.
EEX 4474    Curricula for Teaching Students with Severe Disabilities
3 sh (may not be repeated for credit)
Prerequisite: EEX 3070
This course provides an introduction to curricula pertaining to
students with severe disabilities including intellectual disabilities,
physical impairments, and autism. Emphasis is placed on person-
centered planning, team approaches, access to the general education
curriculum, integrating life skills and academic skills instruction,
activity-based instruction, and community-based instruction. Course
content includes curriculum and instructional strategies related to
communication, motor and self-care skills.

EEX 4772    Personal, Social and Employment Skills for Exceptional
Students
3 sh (may not be repeated for credit)
A primary goal of this course is building capacity with regard to
identifying holistic needs, as well as strategies to promote and
maximize independence, to identify career goals that are consistent
with the career aptitudes and interests of children and youth. Related
components of this focus include: self-awareness, self-determination,
transition planning for independent living, selective placement and
social skill development. Emphasis throughout is placed on identifying
access points to available community, state and federal resources.
A required field experience requires students to develop a Transition
Plan for an at-risk youth or adult that is an application of the essential
course content.

EEX 4905    Directed Study
1-12 sh (may be repeated indefinitely for credit)
EEX 5283    Employment, Social, and Personal Skill Building for
Exceptional Students
3 sh (may not be repeated for credit)
Includes an intensive examination of programs and services and
development of well researched strategies for teaching personal,
social, employment, and transition skills for students into advanced
vocational prep., the workplace and independent living. Provides
graduate level field-based classroom experiences in applying career
development strategies, job coaching, transition planning, and
research related to employment, social, and personal skill development
of student with disabilities.

EEX 5905    Directed Study
1-12 sh (may be repeated indefinitely for credit)
EEX 6035    Best Practices in Teaching Challenging Students
3 sh (may not be repeated for credit)
A comprehensive overview of the exceptional student to include the
knowledge, skills, and dispositions needed to be an effective teacher
in the ESE classroom or inclusive education environment. Covers
a broad range of topics to prepare the professional for the Florida
Teacher Certification Examination for K-12 ESE. Discusses best
practices as reflected in the professional literature related to effective
program development and delivery for students who are at-risk or
identified as needing special educational services.

EEX 6051    Exceptionalities
3 sh (may not be repeated for credit)
This course provides an introduction to special education including
legislation, professional practices, trends, and research. Students will
learn about characteristics and educational needs of individuals with
disabilities and explore evidence-based practices that support student
success.

EEX 6205    Typical and Atypical Development (Birth-5)
3 sh (may not be repeated for credit)
Provides participants with the knowledge of the stages and sequences
of skill acquisition and the impact of disabilities and biomedical risk
factors on learning and development. Covers normal child growth and
development from conception to age five and what can go wrong at
the different developmental stages; from genetic contributions through
conception and pregnancy to birth and to five years of age. Discusses
crucial times for deficiencies.

EEX 6225    Assessment of Exceptional Children
3 sh (may not be repeated for credit)
This assessment course is designed for graduate students in
Teacher Education and focuses on an analysis of the professional
literature to determine best practices in assessment. Topics include
(1) measurement issues to determine assessment quality; (2) an
examination of effective assessment practices with children who are
exceptional; (3) issues involving the interpretation of test scores;
(4) best practices in assessment; and (5) best practices in linking
assessment to instruction. Credit may not be awarded for both
EEX 6225 and EEX 6227.

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 6905    Directed Study
1-12 sh (may be repeated indefinitely for credit)
EEX 7060    Seminar: Best Practices in Alternative and Special
Education
3 sh (may be repeated for up to 6.000 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)

EGI-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 6905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EGM-Engineering: Science Courses

EGM 2500  Engineering Mechanics-Statics  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2311 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 3344  Numerical Methods  
3 sh (may not be repeated for credit)  
Prerequisite: MAP 2302*  
Programming fundamentals, interpolation, curve fitting, optimization, computations with series, numerical integration, and the numerical solution of algebraic, transcendental, simultaneous and differential equations.

EGM 3401  Engineering Mechanics-Dynamics  
3 sh (may not be repeated for credit)  
Prerequisite: EGM 2500 AND MAC 2311  
Dynamics of particles and rigid bodies for rectilinear translation, curvilinear motion, rotation and plane motion. Principles of work and energy, impulse and momentum.

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.

EGN-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 2911L  Sophomore Engineering Design I  
1 sh (may not be repeated for credit)  
First course in a sophomore engineering design sequence. Students work in teams with other engineering design students in an active, discovery based learning environment employing practice based learning.

EGN 2912L  Sophomore Engineering Design II  
1 sh (may not be repeated for credit)  
Prerequisite: EGN 2911L  
Second course in a sophomore engineering design sequence. Students work in teams with other engineering design students in an active, discovery based learning environment employing practice based learning.

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 3365  Engineering Materials  
3 sh (may not be repeated for credit)  
Prerequisite: (MAC 2311) AND (CHM 1045 OR CHM 2045 OR CHM 1045C)  
Fundamentals in structure, properties, and mechanical behavior of engineering materials.

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 3913L  Junior Engineering Design I
1 sh (may not be repeated for credit)
Prerequisite: EGN 2912L
First course in a junior engineering design sequence. Students work in
teams with other engineering design students in an active, discovery
based learning environment employing practice based learning. This
course may be a continuation of the project from the Sophomore
Engineering Design, or may be a starting point for Juniors who are new
to the program (Students without Sophomore Engineering Design must
receive permission from their adviser).

EGN 3914L  Junior Engineering Design II
1 sh (may be repeated for up to 4.000 sh of credit)
Prerequisite: EGN 3913L
Continuation of a Junior engineering design sequence. Students work
in teams with other engineering design students in an active, discovery
based learning environment employing practice based learning. This
course is repeatable for elective credit with permission of the instructor.

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.

EGS-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 3441  Engineering Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Survey of the basic concepts in probability and statistics with
engineering applications. Topics include probability, discrete and
continuous random variables, estimation, hypothesis testing and linear
and multiple regression.

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.

EIN-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.

EME-Edu: Technology Media Courses

EME 1660C  Engineering Technology Applications in Aviation
1-2 sh (may be repeated for up to 6.000 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
in addition to the concept of combining intelligence into an all-source
formatted product. The concepts of Information Security and its
offensive counterpart, Computer Network Operations are explored.
Using real-life scenarios, students analyze strategies to achieve
various end goals. From infiltrating a network of foreign spies, to
developing a suspect’s placement in a network based off of their call
patterns, to assessing the technical capabilities of an adversary nation,
students will be immersed in a variety of practical exercises where
they will be asked to perform various types of analysis themselves. In
addition, students will produce clear, concise, and accurate products
for dissemination. Students will explain the general flow of information
within an intelligence product and associated components.

EIN-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.
EME 3003 Introduction to Intelligence Analysis  
3 sh (may not be repeated for credit)  
Designed for those individuals who might be interested in entering the local, state, or federal intelligence community, foundational knowledge of analytic concepts, partners involved, and their respective functions is explored. Examination of multiple federal agencies, including the Central Intelligence Agency, Federal Bureau of Investigations, Drug Enforcement Administration, Department of Homeland Security, National Security Agency, National Reconnaissance Office, National Geo-spatial-Intelligence Agency, Defense Intelligence Agency, and each military service-specific intelligence organization. Concept of information sharing between the local, state, and federal level intelligence organizations are explored. Overview of Human Intelligence, Signals Intelligence, Geo-spatial Intelligence, Imagery Intelligence, Measurements and Signatures Intelligence, Open Source Intelligence and All-Source Intelligence. Foreign intelligence threats and existing methods that can be employed to counter them are investigated. Key problems faced by the Intelligence Analyst such as are reviewed.

EME 3402 Information Technology Implementation Case Studies  
3 sh (may not be repeated for credit)  
Information Technologists are professionals who design, develop, and manage systems in the areas of computers, networking, and telecommunications. Examining real world case studies that illustrate important IT project implementation challenges provides an opportunity for learners to develop a disciplined approach to the analysis of complex projects and to derive common best practices from the experiences of organizations who have undergone transformational change through the execution of technology projects. Meets Gordon Rule Writing Requirement.

EME 3406 Web Presence Deployment Strategies  
4 sh (may not be repeated for credit)  
Technology Systems Specialists support the development and implementation of the web presence for an organization. An organization’s web presence integrates a wide variety of technologies into a system that projects its identity and services out through the Internet via any number of media. This integration requires learners to plan, select, produce, organize and manage materials and systems in a variety of settings. Learners will develop strategies to design, develop, and evaluate information-based solutions that meet the needs of stakeholders with real-world communication problems.

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 3710 Engineering Technology Applications in CompTIA Security+  
3 sh (may not be repeated for credit)  
Security+ includes important foundational principles for securing a network and managing risk. Access control, identity management and cryptography are important components of the course. Mitigation and deterrent techniques are provided to prevent network attacks and expose potential vulnerabilities. Successful completion of the CompTIA Security+ exam meets the Information Assurance (I.A.) technical and management certification requirement? outlined by the U.S. Department of Defense. Non-degree seeking students will be required to pass an online pre-test with a minimum score of 80% prior to enrollment.

EME 3711 Engineering Technology Applications in CompTIA Network+  
3 sh (may not be repeated for credit)  
Network+ includes topics in network technologies, installation and configuration, media and topologies, management, and security. Certification in Network+ enhances several occupations including: network administrator, network technician, network installer, help desk technician and IT cable installer. Network+ is the ?technical prerequisite option? for IT technicians requesting to join the Apple Consultants Network. Successful completion of the certification exam is recognized by the U.S. Department of Defense. Non-degree seeking students will be required to pass an online pre-test with a score of 80% or better prior to enrollment.

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 4043 Instructional Technology Leadership  
3 sh (may not be repeated for credit)  
Students will examine the role of the technology leader in effective integration, management and use of technology in a variety of settings, including education, training, military, public sector and non-profits. The course focuses on technology, information, and information literacy. Special attention is paid to the role of systems thinking in effective technology leadership. Offered concurrently with EME 5316, graduate students will have additional work.

EME 4313 Wireless and Mobile Communications  
3 sh (may not be repeated for credit)  
Introduces common wireless technologies and wireless network architectures including common carrier cellular networks. Learners will examine characteristics of these technologies and identify their roles in enterprise-class information technology operations. Learners will identify common tools and applications associated with these technologies and explain their roles in design, deployment and management of them. Wireless technologies strengths and weaknesses are described in the context of their effect on enterprise security, performance and cost management.
EME 4454  Technology Systems Implementation Strategies
3 sh (may not be repeated for credit)
Examines the processes and challenges posed by those processes involved in the conception, planning and implementation of a technology systems project. Learners will develop model documents for each process and each phase of the project implementation process.

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: Management Strategies
4 sh (may not be repeated for credit)
Students will develop skills and abilities to effectively manage a networked 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: Architectures and Components
4 sh (may not be repeated for credit)
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 5361  Instructional Technology Leadership
3 sh (may not be repeated for credit)
Students will examine the role of the technology leader in effective integration, management and use of technology in a variety of settings, including education, training, military, public sector and non-profits. The course focuses on technology, information, and information literacy. Special attention is paid to the role of systems thinking in effective technology leadership. Offered concurrently with EME 4043, graduate students will have additional work.

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)
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 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)

Students will develop skills used in conducting effective personnel evaluations in an administrative environment. A competency-based performance approach will be taken, and students will develop the skills needed in preparing for, conducting, and giving competency-based personnel evaluations.

EME 6359 Integrated Technology Learning Environments  
3 sh (may not be repeated for credit)

The skills and abilities necessary in planning for the integration of technology into educational and training environments are the focus of this course. Students will develop a technology integration plan for a real-world scenario through the application of the major practices and models of technology integration.

EME 6358 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 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 required 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)

Students will examine the theory and practice of evaluation models and processes as they relate to the formative, summative and confirmative evaluation of instructional and non-instructional HPT interventions. Students will develop the knowledge, skills and abilities necessary to plan and conduct comprehensive evaluations based on best practices.

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 Implementation of Instructional Technology Projects
3 sh (may not be repeated for credit)
Provides students with the knowledge, skills, abilities, and attitudes necessary to provide leadership in the implementation of instructional technology. Students will learn to identify the constraints and risks associated with instructional technology planning and implementation and develop ways to manage these factors. Students will utilize software tools to manage the implementation of an instructional technology project.

EME 6609 Principles of Instructional Design
3 sh (may not be repeated for credit)
Students will examine the use of instructional systems design models to create instruction that is appropriate from a pedagogical and practical viewpoint. Theories and models to support the design of instruction for use in a variety of instructional formats will be emphasized. Focus areas will include analysis, instructional goals and objectives, assessment, instructional strategies and the role of formative evaluation in instructional design. Students will apply theories and best practices to design a pedagogically sound instructional product.

EME 6626 Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6.000 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 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Graded on a satisfactory / unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission is required.

EME 6938 IT Research Design Seminar
3 sh (may not be repeated for 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.

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 7676 Advanced Instructional Design Theory
3 sh (may not be repeated for credit)
Students will research, critique and apply theories that support the practice of instructional design in various instructional situations. Students will examine the key components of the instructional system; the learner, the content and the context, and develop the knowledge, skills and abilities necessary to design and develop theoretically sound instruction. Theories examined will include systems theory, communication theories, learning theories and instructional theories.

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 18.000 sh of credit)
EML-Engineering: Mechanical Courses

EML 3011 Mechanics of Materials
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500 AND EGN 3365* AND EML 3022 AND EML 3172L*
Strength and elastic deflection of engineering materials due to loads applied axially, in torsion, in bending, and in shear. Combined stresses and principal stresses. Applications to design of beams and shafts. Computer simulation of stress under loading.

EML 3015 Thermal Fluid Systems I
3 sh (may not be repeated for credit)
Prerequisite: (PHY 2048 OR PHY 2048C) AND (MAC 2312)
Introduction to thermodynamics including the first and second laws of thermodynamics as well as power and refrigeration cycles. Fundamentals of heat transfer including an introduction to conduction, convection, and radiation.
EML 3016  Thermal Fluid Systems II
3 sh (may not be repeated for credit)
Prerequisite: EML 3015 AND EML 3016L* AND MAP 2302

Further study of thermal fluid systems including an introduction to fluid mechanics. Fluid statics, Bernoulli and energy equations, open and closed flow, drag and lift. Heat transfer via convection and radiation.

EML 3016L  Thermal Fluid Systems II lab
1 sh (may not be repeated for credit)
Prerequisite: EML 3016*

Laboratory experiments related to thermodynamics, fluid mechanics, and heat transfer. Thermal systems measurement devices, performance characteristics and design of engineering experiments.

EML 3022  Computer Aided Design and Modeling
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Introduction to industry standards for graphical representation of objects and simulation of processes utilizing 2D presentations and 3D modeling.

EML 3172L  Mechanics of Materials lab
1 sh (may not be repeated for credit)
Prerequisite: EML 3011*

Laboratory experiments in materials science, material processing, material stress, strain and bending.

EML 3500  Machine Design
3 sh (may not be repeated for credit)
Prerequisite: EML 3011 AND EML 3172L

Design of machine elements including fasteners, bearings, gears and other power transmission components.

EML 4225  Dynamic Systems
3 sh (may not be repeated for credit)
Prerequisite: EGM 3401 AND MAP 2302

Introduction to modeling and control of dynamic physical systems, vibration analysis, and design of control systems.

EML 4321  Manufacturing Processes
3 sh (may not be repeated for credit)
Prerequisite: EML 3011

An integrated treatment of the analysis of traditional and non-traditional manufacturing processes.

EML 4600  Indoor Environmental Control
3 sh (may not be repeated for credit)
Prerequisite: EML 3016

Gives student a thorough understanding of the fundamental theory of air conditioning design for commercial buildings, including calculating heating and cooling loads along with the proper selection and sizing of air conditioning equipment.

EML 4804  Mechatronic Systems
3 sh (may not be repeated for credit)
Prerequisite: ((EEL 3211 AND EGM 2500 AND EML 4881L* AND MAP 2302)) AND (EEL 4834 OR EGM 3344 OR COP 3014)

This course introduces and demonstrates the synergistic combination of mechanical engineering, electrical and electronics engineering, control engineering, and programming to solve engineering problems and build intelligent systems.

EML 4804L  Mechatronic Systems lab
1 sh (may not be repeated for credit)
Prerequisite: EML 4804L*

This is an introduction to Mechatronics by lab experience for interfacing of mechanical and electrical systems. It provides instruction and practical exercises in C programming, microcontroller programming, interfacing with sensors and actuators, data acquisition, communication, and closed-loop control.

* This course may be taken prior to or during the same term.

ENC-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 Lab. Introduction to academic writing and research at the college level. Course focuses on rhetorical practice, the writing process, language, style, argument, source analysis, critical thinking, and documentation. Students will learn to organize and present ideas and information effectively in argumentative essays supported by research. Satisfies Florida Common Core Communication requirement. Meets Gordon Rule Writing Requirement.

ENC 1102  English Composition II
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101

Introduction to public writing with an emphasis on rhetorical and genre analysis. Course provides instruction on writing to audiences in situations and contexts beyond the academic essay. Students will learn to organize and present ideas in a range of digital and print genres and multiple modes of communication. Satisfies UWF Breadth requirement in Communication. Meets Gordon Rule Writing Requirement.

ENC 1146  Writing Studio
1 sh (may be repeated for up to 2.000 sh of credit)

Writing Studio is a one-hour elective that students may take to workshop writing projects assigned in classes across campus. Students receive one-on-one feedback on their writing in a small-group, workshop context. Class size is typically limited to 8-10 students. Writing Studio provides an intensive investigation into the skills and objectives that make college composition effective. In a collaborative environment, students interpret assignments, generate and research ideas, invent topics, and write, evaluate, revise, and edit drafts. Studio teaches these activities as "recursive" in that writers engage and re-engage in them as one moves through the planning, drafting, and revising of assignments. In any given Studio session, students might closely read an assignment description and plan how to begin a project, rhetorically analyze the purpose and audience of a given writing project, workshop drafts at any stage of the writing process, and actively reflect over writing choices. Students learn to ask critical questions about their own writings, and the class engages in a wider, more nuanced conversation about academic conventions.

ENC 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ENC 2412  Writing in the Digital Age
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102
Students will compose and analyze digital texts that incorporate images, sounds, video, and language. Course focuses on the theory, analysis, and production of digital texts such as blogs, websites, audio podcasts, video, and visual arguments.

ENC 2905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 3213  Professional and Technical Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102
Students will learn an overview of professional and technical writing principles, current communication issues, research practices, and emerging technologies. This course focuses on communications skills essential for success in technical and professional communication, including audience analysis, collaboration, and document design. Students will create documents such as letters, manuals, reports and proposals used in a variety of workplace environments. Meets Gordon Rule Writing Requirement.

ENC 3350  Advanced Writing Studio
1 sh (may not be repeated for credit)
Co-requisite: ENG 3010
Advanced Writing Studio is a one-hour course that students take concurrently with ENG 3010 Critical Methods for Literature Study. Studio students will discuss and edit writing projects assigned in ENG 3010. Students receive one-on-one feedback on their writing in a small-group, workshop context. Class size is typically limited to 10 students. Writing Studio provides an intensive investigation into the skills and objectives that make critical writing effective. In a collaborative environment, students interpret assignments, generate and research ideas, invent topics, and write, evaluate, revise, and edit drafts.

ENC 3455  Writing for Science, Technology, Engineering and Math Majors
3 sh (may not be repeated for credit)
Prerequisite: ((ENC 1101 AND ENC 1102)) AND (CHM 2211 OR GEO 1200/L OR GLY 2010/L OR MAC 2311 OR PHY 2048 OR COP 2253 OR COP 2334)
This class focuses on the writing style and research conventions of STEM communication. Students will learn how to identify audiences and determine purposes for writing so they can make informed choices about media, genre, content, organization, style, and visual design. Students develop their skills by writing and analyzing Lab Reports and abstracts and by applying the scientific method to solve problems.
Meets Gordon Rule Writing Requirement.

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 be repeated for up to 6.000 sh of 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 9.000 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  English Internship
3 sh (may be repeated for up to 6.000 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)

ENG-English: General Courses

ENG 2905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 3013  Introduction to Literary Theory
3 sh (may not be repeated for credit)
Prerequisite: ENC 3350
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. Meets Gordon Rule Writing Requirement.

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)
Prerequisite: ENG 3010
Language instruction for speaking, writing, and reading Old English. Offered Fall semester only.

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 12,000 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

ENL-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 8,000 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 4303  Single Author Seminar, British Literature, 1700 to the Present
3 sh (may not be repeated for credit)
Prerequisite: ENG 3010
This course is designed to give students an in-depth view into British Literature through detailed study of the work of a single canonical author. Extended study of the oeuvre of a single author gives students insight into not only specific moments of history and the overall scene of publishing/literature, but also how a specific author’s style and treatment of themes develop over time.

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)

ENL 6297  Topics in British Literature to the Romantics
3 sh (may be repeated for up to 12,000 sh of credit)
Studies in major figures or movements in British literature until 1789.

ENL 6298  Topics in British Literature from the Romantics to Present
3 sh (may be repeated for up to 12,000 sh of credit)
Studies in major figures or movements in British literature from 1789. Topics change each term. See department or instructor for specific topic.

ENL 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ESC-Earth Science Courses

ESC 2000  Introduction to Earth Science
3 sh (may not be repeated for credit)
This course introduces concepts that form the foundation of our understanding of Earth's physical environment, including an examination of processes that formed Earth and continue to affect its physical environment and the communities that live on its surface. This course demonstrates the basic relationships among lithosphere, hydrosphere, atmosphere, and biosphere, including the human interactions with the physical Earth system. Satisfies Florida Core Natural Sciences requirement.

ESC 2000L  Introduction to Earth Science Laboratory
1 sh (may not be repeated for credit)
Co-requisite: ESC 2000
This course introduces concepts that form the foundation of our understanding of Earth's physical environment, including an examination of processes that formed Earth and continue to affect its physical environment and the communities that live on its surface. This course demonstrates the basic relationships among lithosphere, hydrosphere, atmosphere, and biosphere, including the human interactions with the physical Earth system. Co-requisites: ESC 2000.

ESE-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)
This course provides an introduction to the teacher's role in managing the classroom, instruction, and evaluation as it relates to teaching the essential secondary (grades 6-12) school competencies. Models of teaching are briefly introduced to support new teachers in developing a broader perspective regarding teaching practice and their implications for classroom management. Throughout the course, students will investigate the effective (authoritative) teacher perspective with respect to each model with the following teaching-learning goals in mind:
1) Organizing the classroom for a productive learning environment;
2) Building positive student-teacher relationships for culturally responsive instruction;
3) Handling challenging circumstances with effective strategies;
4) Supporting students with special needs; and
5) Assessing and evaluating student understanding and skills.

ESE 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ESE 4940  Secondary Practicum
3 sh (may be repeated for up to 6,000 sh of credit)
Prerequisite: EDF 3234
Secondary Practicum is designed to be the culminating experience for those preparing to become a professional educator. This program will provide the student with a secondary school placement in their discipline in which they will apply knowledge and skills from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a supervising teacher. During the 100 hour placement, students will observe quality teaching strategies and then plan, deliver and evaluate multiple lessons. Permission is required.

ESE 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ESE 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EST-Electronic Specialty Tech Courses

EST 3543  Programmable Logic Controllers
4 sh (may be repeated for up to 8,000 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.

ETD-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.

ETI-Engineering Tech: Indus Courses

ETI 3905  Directed Study
1-12 sh (may be repeated indefinitely 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 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**ETM-Engineering Tech:Mech Courses**

ETM 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

**EUH-European History Courses**

EUH 1000  Western Perspectives I  
3 sh (may not be repeated for credit)

Study of the West's geographical, cultural, political, and economic environments, with an emphasis on how the development of the Western World is part of a larger process of historical development. Satisfies UWF Breadth requirement in Social Sciences. Meets Multicultural Requirement.

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. Satisfies UWF Breadth requirement in Social Sciences. 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. Credit may not be earned in both EUH 3203 and EUH 3205. Meets Multicultural Requirement.

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 ascendance. 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 4185  Vikings  
3 sh (may not be repeated for credit)

The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archaeological evidence, this course examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandinavia as well as outlying areas of Russia, England and North America. Offered concurrently with EUH 5196; graduate students will have additional work.

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 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, ascendency of Adolf Hitler and subsequent erosion of traditional European culture. Various 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 5467; graduate students will be assigned additional work.

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 5178 Medieval Women
3 sh (may not be repeated for credit)
Medieval Women, which focuses on the experiences of women from the beginning of the Christian era through the early Renaissance in Western Europe and the Mediterranean. This course will pay particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and the Church in defining women's work, social roles and opportunities, and family functions and responsibilities. Excerpts from primary sources written by women will be read and analyzed, and carefully explored according to History methodology, to understand more deeply their everyday challenges, struggles, and experiences. Offered concurrently with EUH 4614; graduate students will be assigned additional work.

EUH 5196 Vikings
3 sh (may not be repeated for credit)
The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archaeological evidence, this course examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandinavia as well as outlying areas of Russia, England and North America. Offered concurrently with EUH 4185; graduate students will be given additional work.

EUH 5287 The Second 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, ascendency 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 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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 6935 Seminar: Jerusalem in Antiquity and the Middle Ages
3 sh (may not be repeated for credit)
Jerusalem, the holy city of the three major monotheistic religions today, acquired that designation over millennia. This graduate seminar will explore the evolution of Jerusalem into the ?Holy City? of the ?Holy Land?, from the perspective of each of the three religions. Primary sources from events in the history of ancient and medieval Jerusalem will be read and discussed. Historical evidence for co-existence of the three major religious groups in the microcosm of Jerusalem, their shared religious experiences, and violent conflicts will be investigated, as the land itself became terra sancta.

EVR-Environmental Studies Courses

EVR 2001 Introduction to 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. Satisfies Florida Common Core Natural Sciences requirement.

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. Meets Gordon Rule Writing Requirement.

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 2010/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. Offered concurrently with EVR 5071; graduate students will be assigned additional work.

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 4050 Environmental Field Research
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: GEO 1200/L OR GLY 2100/L; Completion of 75 hours of college course work is required prior to taking this course.
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 6,000 sh of credit)  
Prerequisite: GLY 2010/L OR GEO 1200/L OR ESC 2000/L  
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  Research in Earth and Environmental Sciences  
1-3 sh (may be repeated for up to 9,000 sh of 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 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 6,000 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 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 9.000 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.

EVS-Environmental Science Courses

EVS 4192C Environmental Soil Science
3 sh (may not be repeated for 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. Offered concurrently with EVS 5194C (Environmental Soil Science); graduate students will be assigned additional work. Permission is required.

EVS 5194C Environmental Soil Science
3 sh (may not be repeated for 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 6.000 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 12.000 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.

EVT-Education: Voc/Technical Courses

EXP-Experimental Psychology Courses

EXP 3905 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 3213
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 3213
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)
Prerequisite: PSY 3213
Students must take EXP 4204 before enrolling in this course. 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 5735  Experimental and Correllational Statistics for Psychology
3 sh (may not be repeated for credit)
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.

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 must take PSY 3213 and PSY 3215 and EXP 4404; or an undergraduate degree in Psych before enrolling in this course. 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)

FIL-Film Courses
FIL 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

FAS-Fishery Agri Science Courses
FAS 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

FIN-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. Satisfies UWF Breadth requirement in Social Sciences.
FIN 3144  Financial Planning with Business Applications  
3 sh (may not be repeated for credit)  
The course covers the business applications and considerations that  
owners and employees in various industries face (e.g. insurance,  
home/auto sales, retirement planning). Furthermore, this course  
considers a variety of consumer financial issues for personal  
household management. May not be used to satisfy a Finance elective  
in either the Finance major or the Finance minor.

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 3905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

FIN 4145  Portfolio Planning for Individual Investors  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403  
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  
Measurement and management of the risks and returns assumed  
by commercial banks and near banks. Current issues in financial  
intermediation. Includes theory and practice.

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: FIN 3403 AND GEB 3213  
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 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.

FLE - Foreign Language Education Courses  
FLE 2905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

FRE - 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. This course is not available for native speakers.
FRE 1121C  French II  
4 sh (may not be repeated for credit)  
Prerequisite: FRE 1120C  
This is a continuation of FRE 1120C, a proficiency-oriented course, emphasizing the mastery of the basic skills of the language. An integrated (multi-media) approach to develop proficiency in all the basic language skills: listening/understanding, speaking, reading, writing and cross-cultural awareness. Students will build on their ability to understand frequently used words in oral contexts, as well as understand and respond appropriately to simple phrases and questions. Emphasis is placed on practical vocabulary and accurate pronunciation. This course is not available to native speakers. Prerequisite is FRE 1120C (minimum grade of C) or successful completion of a placement test.

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)  
Prerequisite: FRE 1121C  
The purpose of this course is to offer opportunities for students to develop their language skills and to prepare them for higher-level courses in French. The course will emphasize intensive practice in reading, translation and conversation. The course is intended for students who have previous experience in French, but are not yet prepared for advanced work in the language. This course is not available to native speakers. It has a pre-requisite of FRE 1121C (minimum grade of C) or successful completion of a placement test.

FRE 2210  Intermediate Composition & Conversation  
3 sh (may not be repeated for credit)  
Prerequisite: FRE 1121C  
Practical oral communication course for students on an intermediate level. Prepares students for FRE 2200. This course is not available for native speakers. FRE 1121C (minimum grade of C) or successful completion of placement test is required.

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.

FRW-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)  

GEA-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. Satisfies UWF Breadth requirement in Social Sciences. Meets Multicultural Requirement.

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. Credit cannot be received for both GEA 4405 and GEA 4400. Meets Multicultural Requirement.

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 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
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.

GEA 5731  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, cultures, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 4730; graduate students will be assigned additional work.

GEB-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. Satisfies UWF Breadth requirement in Social Sciences.
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. Meets Gordon Rule Writing Requirement.

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 GEB 3213 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 5116  Venture Development  
3 sh (may not be repeated for credit)  
Prerequisite: GEB 5118  
Students develop the knowledge and skills to begin a start-up business and evaluate it for possible launch. The curriculum includes constructing a board of directors, adding managers for key functions, reaching revenue targets and examining the steps of taking a company public.

GEB 5118  New Ventures  
3 sh (may not be repeated for credit)  
Students will develop the knowledge and skills needed to start a new business. They create potential opportunities, assess the opportunities and evaluate how to seek seed capital through an elevator speech and business plan with an eye toward the profitability horizon. Students are expected to have an understanding of financial accounting and the business relationships that exist between the generation and use of financial information.

GEB 5509  Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit Organizations  
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 5816  MBA Foundations: Principles of Human Resources Management  
1.5 sh (may not be repeated for credit)  
A course in the Accelerated MBA Foundations Series in which students are introduced to the basic functions of human resource management, including employment law, planning, job analysis, recruitment and selection, training and development, performance management, compensation and benefits, employee and labor relations, safety and health, and international human resource management.

GEB 5870  MBA Foundations: e-Business Systems  
1.5 sh (may be repeated for up to 3.000 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 3.000 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 3.000 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 3.000 sh of credit)
A course in the Accelerated MBA Foundations Series in which students who 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 3.000 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 3.000 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 3.000 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 5878 Business Process Integration
1.5 sh (may not be repeated for credit)
An introductory MBA core course in which students must combine the practical skills and discipline of specific concepts learned in previous foundation courses in order to solve a complex integrated real-life business problem. Serves as an initial integrating experience from which to launch students into the core MBA study. Permission is required.

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 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)

GEO-Geography: Systematic Courses

GEO 1200 Physical Geography
3 sh (may not be repeated for credit)
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. Material and supply fee will be assessed for corresponding lab. Satisfies UWF Breadth requirement in Natural Sciences.

GEO 1200L Physical Geography Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 1200*
Corresponding lab for Physical Geography.

GEO 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GEO 3210 Geomorphology
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/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.

GEO 3250 Weather and Climate
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/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, micro climate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

GEO 3250L Weather and Climate Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 3250*
Corresponding Lab for Weather and Climate.
GEO 3260  Geography of Soils
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200/L OR GLY 2010/L OR ESC 2000/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
Deals with the nature, properties and distribution of soils and their relationship to the influence of vegetation, climate, landforms, and human activity. Intended to be fundamental soil science lab that provides hands-on experience. Field trips required. Material and supply fee will be assessed.
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. Credit cannot be received for both GEO 3471 and GEO 3470. Meets Multicultural Requirement.
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/L AND STA 2023
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/L OR GLY 2010/L OR ESC 2000/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 4221
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
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/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. Offered concurrently with GEOS289; graduate students will be assigned additional work.
GEO 4280L  Basic Hydrology Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 4280*
Co-requisite: GEO 4280
Corresponding Lab for Basic Hydrology.
GEO 4332  Senior Seminar
1 sh (may be repeated for up to 2.000 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/L OR GEO 1200/L OR GLY 2010/L OR ESC 2000/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 4376

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)
Co-requisite: GEO 5225L

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 4221; graduate will be assigned additional work.

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
1 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 5905  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)

GEO 6936  Graduate Seminar
3 sh (may not be repeated 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.

*  This course may be taken prior to or during the same term.

**GER-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

For students with prior knowledge of German at the basic level and/or completion of GER 1120C. German II continues to introduce students to the German language and German-speaking cultures and further develops abilities in speaking, writing, and reading the language. One hour of lab work per week is required. This course is not available to native speakers. Pre-requisite is GER 1120C (minimum grade of C) or successful completion of a placement test.

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)

Prerequisite: GER 1121C

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. Students explore life in the German-speaking countries through reading, discussing, and engaging with short narrative texts in various ways. The course emphasizes vocabulary building, includes a thorough review of German grammar, and the composition of short texts to develop writing skills. This course is not available for native speakers. GER 1121C (minimum grade of C) or successful completion of placement test is required.

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)

**GEY-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 on knowledge learned from the course. Offered concurrently with GEY 5005; graduate students will be assigned additional work. Permission is required.

**GIS-Geographic Inform Syst Courses**

GIS 3015  Cartographic Skills
3 sh (may not be repeated for credit)

Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/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
1 sh (may not be repeated for credit)

Prerequisite: GIS 3015*

Co-requisite: GIS 3015

Corresponding lab for Cartographic Skills.
GIS 4006  Computer Cartography
3 sh (may not be repeated for credit)
Prerequisite: GIS 4006L*

The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness.

GIS 4006L  Computer Cartography Lab
1 sh (may not be repeated for credit)
Co-requisite: GIS 4006

The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness.

GIS 4035  Photo Interpretation and Remote Sensing
3 sh (may not be repeated for credit)
Prerequisite: GIS 3015/L

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
1 sh (may not be repeated for credit)
Prerequisite: GIS 4035*
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. Material and supply fee will be assessed. Permission is required.

GIS 4037  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 4043  Geographic Information Systems
3 sh (may not be repeated for credit)
Co-requisite: GIS 4043L

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

In today's technology driven world we are fortunate to have access to many tools with which to analyze and explore digital spatial data. During this course students will learn to use programming techniques to create applications that perform fundamental spatial analysis and automation tasks, such as geoprocessing, editing, database management, projecting data, and map creation. The course will focus primarily on using the Python programming language within the context of Esri’s desktop GIS environment. 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.
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 6.000 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 4938 Special Topics in GIS for Archaeology
3 sh (may not be repeated for credit)
Prerequisite: GIS 4260

This course will serve as an advanced approach 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. Offered concurrently with GIS 5938; graduate students will be assigned additional work.

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 5007 Computer Cartography
3 sh (may not be repeated for credit)
Co-requisite: GIS 5007L

The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hand applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness.

GIS 5007L Computer Cartography Lab
1 sh (may not be repeated for credit)
Co-requisite: GIS 5007

The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness.

GIS 5027 Aerial Photography and Remote Sensing
3 sh (may not be repeated for credit)

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
1 sh (may not be repeated for credit)
Prerequisite: GIS 5027*
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
3 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
1 sh (may not be repeated for credit)
Prerequisite: GIS 5050*
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)
Prerequisite: GIS 5050/L
In today’s technology driven world we are fortunate to have access to many tools with which to analyze and explore digital spatial data. During this course students will learn to use programming techniques to create applications that perform fundamental spatial analysis and automation tasks, such as geoprocessing, editing, database management, projecting data, and map creation. The course will focus primarily on using the Python programming language within the context of Esri’s desktop GIS environment. 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 6.000 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 5938  Special Topics in GIS for Archaeology
3 sh (may not be repeated for credit)
Prerequisite: GIS 5265
This course will serve as an advanced approach 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. Offered concurrently with GIS 4938; graduate students will be assigned additional work.

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 6.000 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.

* This course may be taken prior to or during the same term.

**GLY-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. Satisfies UWF Breadth requirement in Natural Sciences.

GLY 2010L  Physical Geology Laboratory
1 sh (may not be repeated for credit)
Lab correlating with GLY 2010. 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 OR ESC 2000/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 OR ESC 2000/L) AND (CHM 2045)
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 OR ESC 2000/L) AND (CHM 2045) AND (BOT 2010 OR BSC 1005 OR BSC 2010)
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)
Prerequisite: (GEO 1200/L OR GLY 2010/L OR ESC 2000/L) AND (CHM 2045)
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.

**GRA-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: GRA 2111C AND GRA 2208C

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. 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 6.000 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 3139C Motion Graphics
3 sh (may be repeated for up to 9.000 sh of credit)
Prerequisite: DIG 3309C AND GRA 2208C

A further articulation of the techniques and components of time-based media design. Exercises and projects will introduce basic concepts of art and design in time. Students will use time and movement, elements of the moving image, serial, sequential, and narrative ordering, moving image editing, sound and image relations, as well as object and event analysis to create time-based designs. Students will develop advanced skills in time-based media as an expressive and communicative art form. Aesthetic, technical, historical, and conceptual issues will be addressed through lectures, demonstrations, exercises, projects, screenings, research, and readings.

GRA 3151C Digital Illustration
3 sh (may not be repeated for credit)
Prerequisite: GRA 2484C AND PGY 2801C

An introductory class in creating illustration in a digital environment. Topics including the study of illustration as visual interpretation of words, concepts, and ideas. Students are challenged by assignments based on jobs typical of those given in the professional arena such as advertising, publishing, and editorial illustration. Students will develop illustrations using traditional thumbnails, sketches, and color studies, and complete the final artwork using industry standard software in a digital environment with digital tablets and pens. Students will learn to render in varying styles, and begin to develop a digital illustration style of their own. Final digital illustrations will be expected to demonstrate the same qualities as traditional illustration, including but not limited to style, composition, color theory, perspective, and concept. Final illustrations will also be assessed for technical cleanliness, edit-ability, and adherence to guidelines given.

GRA 3196C Contemporary Design Culture
3 sh (may not be repeated for credit)
Prerequisite: ARH 3724 AND GRA 3112C

Exploration of contemporary design culture presented in a studio problem-solving format. Explores how the interplay of artists, designers, and thinkers with technological and economic forces has created the look and feel of the objects and practices that shape our culture. Combines study of pop culture and recent design history with an investigation of philosophical, sociological, psychological, and technological issues. This senior-level studio course consists of three advanced projects that are built around the study of modern, post-modern, and contemporary design theory.

GRA 3521C Graphic Design for Interactive Applications
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C AND GRA 2111C AND GRA 2208C

An intermediate graphic design course involving complex interactive projects for the web and other technologies using standards-compliant HTML and CSS. Students will have the opportunity to learn the application of semantic code markup in order to gain an understanding of the separation of content and form in dynamic media. Alternate forms of scripting for the web and interaction with databases will also be introduced.

GRA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GRA 4930C Special Topics in Digital Media Design
3 sh (may be repeated for up to 9.000 sh of credit)
Prerequisite: ART 2602C

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.
GARA 4940L Internship in Graphic Design
1-3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: ART 3618C AND GARA 2208C

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.

GARA 4950C Graphic Design Portfolio
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: GARA 2208C AND GARA 3102C AND GARA 3112C AND GARA 4112C

This course focuses on the development and execution of a graphic design and digital media 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.

**GRE-Class Greek (Lang Study) Courses**

GRE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**HFT-Hospitality Management Courses**

HFT 2000 Introduction to the Hospitality Industry
3 sh (may not be repeated for credit)

Introduce students to management career options within the hospitality industry, which include lodging, food & beverage, meetings & conventions, recreation & leisure, gaming entertainment, cruising, clubs, and transportation. The importance of leadership and service culture are also discussed.

HFT 3053 Travel and Tourism Management
3 sh (may not be repeated for credit)

Students study the organizations and techniques involved in developing and promoting a destination. The course highlights the importance of teamwork between the public and private sectors in tourism related activities. Cross-disciplinary examination of the many facets of travel and tourism management are also explored.

HFT 3214 Hospitality Safety, Sanitation and Risk Management
3 sh (may not be repeated for credit)

Students study safety and sanitation management principles in the hospitality industry related to safe food handling practices, responsible alcohol service, and developing and maintaining a sustainable facility for hospitality guests and employees. Students may obtain NRA ServSafe Food Safety and ServSafe Alcohol certifications, as well as the AHLA Risk Management Certification.

HFT 3221 Human Resources in the Hospitality Industry
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000*

Introduction to human resource management in the hospitality industries with emphasis placed upon motivation and training. Guest satisfaction is dependent upon employee satisfaction; therefore, strategies are explored to combat the high turnover which characterizes hospitality fields.

HFT 3271 Spa Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000

An examination of today's spa industry, spa careers, spa director's perspective, quality of spa experience, industry trends and future directions. Students will learn best practices that have proven successful in the spa industry. 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 3333 Contemporary Club Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000

Introduction to the world of private club management, including club governance, service excellence, organizational structure, human resources, quality management systems for clubs, government regulations, club marketing, food and beverage operations, computer technology for clubs, golf operations in clubs, club fitness operations, and club facilities management. Students learn how to incorporate sustainability practices in club management.

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, from 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 AND HFT 3214*

Provides the foundation for understanding the various challenges and responsibilities involved in food and beverage management. Students will examine the formulation, implementation, and evaluation of food and beverage organizations and apply the conceptual frameworks to specific situations. All aspects of food and beverage operations are covered including organization, marketing, menus, costs and pricing, production, service, safety, and finances.

HFT 3932 The Disney Semester: Experiential Learning in the Hospitality Industry
3-12 sh (may not be repeated for credit)

For students who have been accepted into the Walt Disney World College Program. Students will participate in classroom education (maximum of 4 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)
Prerequisite: HFT 2000*

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)
Prerequisite: HFT 2000
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 4277  Resort Operations and Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3414 AND HFT 3814C
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 4295  Strategic Leadership in Hospitality Management
3 sh (may not be repeated for credit)
Prerequisite: GEB 3213 AND HFT 2000 AND HFT 3003 AND HFT 3221 AND HFT 3414 AND HFT 3814C AND HFT 4277 AND HFT 4426 AND MAN 3025 AND MAN 3240 AND MAR 3023
Strategic management case approach is used to solve realistic problems by drawing upon all previous course concepts while developing leadership skills. In depth analysis of hospitality and tourism organizations dealing with strategic planning, leadership, management, budgeting, records and reports, risk management, staff organization, and coordination of resources. This course serves as the Global Hospitality and Tourism capstone. Offered concurrently with HMG 5296; graduate students will be assigned additional work.

HFT 4343  Planning and Design for the Hospitality Industry
3 sh (may not be repeated for credit)
Prerequisite: (HFT 2000 AND HFT 2850C) OR (HFT 1000 AND HFT 3414) OR (HFT 1254 AND HFT 3814C) OR FSS 1221C
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 which fulfill travel/recreation expectations; operate graciously in the community; and function efficiently to realize profit.

HFT 4426  Hospitality Financial Analysis & Revenue Optimization
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021 AND ACG 2071 AND HFT 2000
Specialized accounting techniques applicable to the hospitality industry; interpret hospitality financial statements, capital investment decision making, financial instruments and concepts; survey of revenue management and analytics related tactics, issues, and trends in the hospitality industry. Perishable inventory with variable demand necessitates effective revenue management to realize the tourism and hospitality mechanism of revenue optimization. Participation in this course will afford students the opportunity to identify and exploit the core elements of revenue management, namely forecasting, controls (pricing and allocation/optimization decisions) and monitoring. This course aims for students to establish a reasonable level of relevant analytical/technical proficiency in each one of these core revenue management elements. Within the broader area of pricing theory, additional emphasis is placed on overbooking, consumer behavior, distribution channel management, and market segmentation. Utilizing STR hospitality metrics, students will develop hotel analytical skills and the opportunity to receive the Certification in Hotel Industry Analytics (CHIA). Offered concurrently with HMG 5466; graduate students will be assigned additional work.

HFT 4503  Service Experience Marketing for Hospitality Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3414 AND HFT 3814C AND MAR 3023
Examine significant issues facing hospitality and tourism service providers and the successful implementation of a customer focus in service-based businesses. Course includes an overview of services marketing; understanding the customer; standardizing and aligning the delivery of services; the people who deliver and perform services; managing demand and capacity; and promotion and pricing strategies in hospitality and tourism marketing. Offered concurrently with HMG 5506; graduate students will be assigned additional work.

HFT 4753  Special Event 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. Analysis of the methods and techniques of event design, organization, implementation, and evaluation. Legal issues and trends are studied. The economic impact of the special events business upon destinations is studied.

HFT 4940  Internship in Hospitality Management
1-3 sh (may be repeated for up to 3.000 sh of credit)
Prerequisite: HFT 2000
Students are required to work 800 paid hours in a hospitality industry position. Students work in a hospitality, recreation or resort related organization and have the opportunity to put theory into practice through active participation. Students are supervised by a management-level agency employee as well as by a faculty advisor. Permission is required to enroll.

* This course may be taken prior to or during the same term.
HIS-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 related to gender differences 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  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 Junior 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 not be repeated for up to 4,000 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 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 4081  Advanced Museology
3 sh (may not be repeated for credit)
This seminar in advanced museum studies introduces students to the larger museum operation elements including museum history, philosophy, administration, ethics, and public responsibility. Because of the nature of this course, you will have an unparalleled opportunity to immerse yourself in the discipline and cultivate a clear understanding of the field. The intensive course consists of one full week of concentrated class meetings followed by the remaining segments of the summer to complete museum projects. Offered concurrently with HIS 5087; graduate students will be assigned additional work.

HIS 4086  Issues in Historic Preservation
3 sh (may not be repeated for credit)
This course offers students a general introduction to the history, practices, principles, and fields of historic preservation. Offered concurrently with HIS 5084; graduate students will have additional work.

HIS 4251  Route 66 to the Atomic West
3 sh (may not be repeated for credit)
This course will provide students with an unparalleled opportunity to develop an in-depth understanding of Western Cold War, urban, and cultural history. This will include both in-class instruction as well as an inclusive twenty-seven day tour throughout the American West. During the first half of the summer, at the University of West Florida, the students will engage in lectures, discussions, and exercises, complete a series of comprehensive readings and topical research assignments, and prepare a series of podcasts on locations throughout the Atomic West. Throughout the month of July, for twenty seven days, the class will travel throughout eleven states and engage in presentations, tours, site-visits, and other activities. During this time, students will photograph, record, and document their findings and experiences. Through this process, students will gain an extensive and profound understanding of the course material as well as the locations that are part of our national history. Throughout our travels, students will upload their professional-quality podcasts about their trip and insights on the atomic west into the Next Exit History? system. Offered concurrently with HIS 5256; graduate students will have 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 the 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 4354  Modern Military Leaders
3 sh (may not be repeated for credit)
Military leaders who have significantly affected various conflicts and pertinent developments in the modern age. Examines the prominent European and American military leaders and leadership skills from the age of religious conflicts in Europe through the Second World War. Encompasses the periods of absolutism, imperialism and colonialism, revolution and the emergence of democracy, and the rise of twentieth-century fascism.

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 5084  Issues in Historic Preservation
3 sh (may not be repeated for credit)
This course offers students a general introduction to the history,
practices, principles, and fields of historic preservation. Offered
concurrently with HIS 4086; graduate students will be assigned
additional work.

HIS 5087  Advanced Museology
3 sh (may not be repeated for credit)
Historical museum operation: philosophy, administration, ethics, and
public responsibility.

HIS 5256  Route 66 to the Atomic West
3 sh (may not be repeated for credit)
This course will provide students with an unparalleled opportunity to
develop an in-depth understanding of Western Cold War, urban, and
cultural history. This will include both in-class instruction as well as an
inclusive twenty-seven day tour throughout the American West. During
the first half of the summer, at the University of West Florida, the
students will engage in lectures, discussions, and exercises, complete
a series of comprehensive readings and topical research assignments,
and prepare a series of podcasts on locations throughout the Atomic
West. Throughout the month of July, for twenty seven days, the class
will travel throughout eleven states and engage in presentations,
tours, site-visits, and other activities. During this time, students will
photograph, record, and document their findings and experiences.
Through this process, students will gain an extensive and profound
understanding of the course material as well as the locations that are
part of our national history. Throughout our travels, students will upload
their professional-quality podcasts about their trip and insights on the
atomic west into the Next Exit History? system. Offered concurrently
with HIS 4251; graduate students will have additional work assigned.

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 be repeated for up to 3.000 sh of 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 be repeated for up to 6.000 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is
required.
HLP-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 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 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 6,000 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 be repeated for up to 6,000 sh of 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 be repeated for up to 6,000 sh of credit)
Graded on a satisfactory / unsatisfactory basis only. Permission is
required.

HMG-Hospitality Management Graduate Courses

HMG 5296  Strategic Leadership in Hospitality Management
3 sh (may not be repeated for credit)
Prerequisite: HMG 5466 AND HMG 5506
Strategic management case approach is used to solve realistic
problems by drawing upon all previous course concepts while
developing leadership skills. In depth analysis of hospitality and
tourism organizations dealing with strategic planning, leadership,
management, budgeting, records and reports, risk management, staff
organization, and coordination of resources. This course serves as
the Global Hospitality and Tourism capstone. Offered concurrently
with HFT 4295; graduate students will be assigned additional work.
Designed for M.B.A. candidates and should be taken as the last
course in the Hospitality and Tourism Leadership area of emphasis.
Permission is required.
HMG 5466  Hospitality Financial Analysis & Revenue Optimization
3 sh (may not be repeated for credit)
Specialized accounting techniques applicable to the hospitality
industry; interpret hospitality financial statements, capital investment
decision making, financial instruments and concepts; survey of
revenue management and analytics related tactics, issues, and trends
in the hospitality industry. Perishable inventory with variable demand
necessitates effective revenue management to realize the tourism and
hospitality mechanism of revenue optimization. Participation in this
course will afford students the opportunity to identify and exploit the
core elements of revenue management, namely forecasting, controls
(pricing and allocation/optimization decisions) and monitoring. This
course aims for students to establish a reasonable level of relevant
analytical/technical proficiency in each one of these core revenue
management elements. Within the broader area of pricing theory,
additional emphasis is placed on overbooking, consumer behavior,
distribution channel management, and market segmentation. Utilizing
STR hospitality metrics, students will develop hotel analytical skills and
the opportunity to receive the Certification in Hotel Industry Analytics
(CHIA). Offered concurrently with HFT 4426; graduate students will be
assigned additional work.
HMG 5506  Service Experience Marketing for Hospitality Management
3 sh (may not be repeated for credit)
Examine significant issues facing hospitality and tourism service providers and the successful implementation of a customer focus in service-based businesses. Course includes an overview of services marketing; understanding the customer; standardizing and aligning the delivery of services; the people who deliver and perform services; managing demand and capacity; and promotion and pricing strategies in hospitality and tourism marketing. Offered concurrently with HFT 4503; graduate students will be assigned additional work.

HSA-Health Services Admin Courses

HSA 3111  Understanding U.S. Health Care
3 sh (may not be repeated for credit)
This course provides an orientation to the characteristics and foundation of the U.S. Health Care system including a review of health professionals, technology, financing and reimbursement, delivery systems, vulnerable populations, process improvement, and health policy.

HSA 3140  Strategic Planning in Healthcare
3 sh (may not be repeated for credit)
This course focuses on strategic management as it applies to health care organizations with special emphasis on strategic planning, analysis of the health services environment (both internal and external), marketing and implementation. Healthcare case studies are used to illustrate key concepts.

HSA 3170  Principles of Healthcare Finance
3 sh (may not be repeated for credit)
Prerequisite: (ACG 2071 OR ACG 3082) AND (ACG 2021)
This course provides students with an introduction to the fundamentals of health care finance as practiced in health services organizations. The course will enable students entering management positions to more readily become effective and efficient participants in the achievement of organizational goals. Reimbursement insurance and third-party payments are covered.

HSA 3551  Health Ethics and Professionalism
3 sh (may not be repeated for credit)
This course includes an overview of ethical issues facing today’s health care practitioners in addressing clinical and administrative decision-making. This course will also focus on the importance of professionalism and effective communication skills in dealing with health care consumers and other medical professionals in the health care industry.

HSA 4002  Healthcare Administration
3 sh (may not be repeated for credit)
This course provides students with an overview of concepts and issues related to healthcare administration in a variety of healthcare settings, such as hospitals, nursing homes, clinics and others. Emphasis is placed on important issues such as ethics, controlling costs, strategic planning and marketing, information technology, and personnel administration.

HSA 4110  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 4191  Health Information Systems
3 sh (may not be repeated for credit)
Provides an overview of various health information such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed. Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching.

HSA 4192  Current Topics in Health Informatics
3 sh (may not be repeated for credit)
Provides an overview of the multifaceted, interdisciplinary nature of health (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. Credit may not be received in both HSA 4192 and HSA 4190. This course was formally known as Introduction to Medical Informatics.

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 4383  Quality Improvement in Healthcare
3 sh (may not be repeated for credit)
This course focuses on the fundamental concepts and practical tools necessary for maximizing employee performance in healthcare organizations with special emphasis on the complex factors that influence the performance of this unique workforce in a dynamic industry.

HSA 4384  Advanced Topics in Healthcare Information Technology
3 sh (may not be repeated for credit)
This course serves as an introduction to health information technology. This course provides a basic overview of computer architecture; data organization, representation and structure; and the fundamentals of data communication. This course also covers 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.
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 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

HSA 4941  Internship in Healthcare Administration  
3 sh (may not be repeated for credit)  
This internship experience will provide students with hands-on experience in the healthcare industry and exposure to key elements in this environment. Emphasis will be placed on skills in the following fields: healthcare administration, public health administration, and allied health. Focus will be placed on professional development and preparation of the student for the workforce. Approval of instructor.

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 4110; 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 computer architecture; data organization, representation and structure; and the fundamentals of data communication. This course also covers a large breadth of terminology used in the computer industry. Offered concurrently with HSA 4394. Graduate students will be assigned additional work.

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 4394; 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 6103  Health Services Administration  
3 sh (may not be repeated for credit)  
This course will introduce essential concepts and developing trends in health services administration which are applicable in professional practice and provide a baseline for further study.

HSA 6175  Healthcare Finance  
3 sh (may not be repeated for credit)  
This course focuses on the application of finance theory, principles, and concepts to healthcare organizations. Topics covered also include the healthcare environment, long term financing, and capital investment decisions in the healthcare industry.

HSA 6197  Health Informatics  
3 sh (may not be repeated for credit)  
This course discussed the the multifaceted, interdisciplinary nature of health informatics. Topics covered include: 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.

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 6425  Legal Fundamentals of Healthcare  
3 sh (may not be repeated for credit)  
An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in health is examined. It will address the government regulation of healthcare, liability, provider duties, professional licensing, licensing enforcement, health records, false claims, fraud and abuse, public health, health ethics, informed consent, negligence, and the legal basis for hospital governance.

HSA 6436  Health Economics  
3 sh (may not be repeated for credit)  
This course covers the role of prices, the production of health, the demand for healthcare, the demand for health insurance, the health insurance market, managed care, physicians' services market, cost of healthcare in hospitals and long term care facilities, pharmaceuticals, cost effectiveness analysis, role of government, international comparisons, Medicaid and Medicare, and insurance reform.

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.

HSA 6752  Quantitative Foundations and Data Analysis for Health Admin  
3 sh (may not be repeated for credit)  
This course will introduce the methods for description and analysis which provide healthcare professionals with useful tools for making sense from data. The course will cover how healthcare data is dependent on analysis, categorization, and management.
HSA 6944  Internship in Health Administration
3 sh (may not be repeated for credit)

An internship in a healthcare setting. Under supervision, students will work on a problem related to management, development or administration in healthcare. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

**HSC-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 2622  Introduction to Global Health Sciences
3 sh (may not be repeated for credit)

This health sciences course considers the influence of factors such as access to healthcare, biology, infectious diseases, societal status, culture, the environment, and the management of healthcare resources, on the well-being of people around the globe. The course will also examine the role of equity, social justice, and ethics in healthcare. Case studies demonstrating how various actors have cooperated across national borders to solve problems like pandemics, healthcare access challenges and disease eradication will be analyzed. Students will integrate ideas from different disciplines to identify problems affecting society in the international context. Meets Multicultural Requirement.

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  Current Issues in the Health Sciences
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. This course will provide an overview of the field of health sciences.

HSC 3147  Pharmacology for Health Professionals
3 sh (may not be repeated for credit)

This course will focus on the general principles of drug action and pharmacology of therapeutic agents. The general principles of pharmacology, including drug absorption, distribution and metabolism along with receptor theory will be covered. The course will also focus on mechanism of action of specific drug classes and their effective use in different diseases.

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 3410  Data Analysis in the Health Sciences
3 sh (may not be repeated for credit)

Prerequisite: STA 2023

This course focuses on the application of computer technology and software in conducting analysis of data, including how to retrieve, clean, organize, and analyze data using computational methods, as well as report findings using existing general purpose software.

Additionally, students will acquire skills in data presentation through using tables, charts, and written reports. All students must complete STA 2023 or equivalent prior to taking HSC 3510.

HSC 3510  Medical Terminology
3 sh (may not be repeated for credit)

This course is designed to familiarize students with the 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. An emphasis is placed on word dissection of compound medical terms and inferring word meanings from their prefixes, suffixes, and stem words. Credit may not be received in both HSC 3534 and HSC 3535.

HSC 3535  Pathophysiology
3 sh (may not be repeated for credit)

Prerequisite: (BSC 1085 AND BSC 1086) OR PCB 4703 OR PCB 3097/L OR PCB 4098/L

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 not be repeated indefinitely for credit)

HSC 4050  Health Sciences Research Seminar
3 sh (may not be repeated for credit)
This capstone course will focus on contemporary research in the health sciences. The course will cover topics such as the scientific method, research study designs, critical evaluation of the literature, technical writing, research ethics, data collection, and analysis. As part of an ongoing semester project, students will design a research proposal on a specific topic in health. A capstone exam will be given.

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 4300  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 4500  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 4502  Principles of Human Disease
3 sh (may not be repeated for credit)
Prerequisite: PCB 4703 OR (BSC 1085 AND BSC 1086)
The course introduces students to the mechanisms of human disease, disease etiology, symptoms, diagnosis, treatments, prognosis and epidemiology. Diseases and disorders of each of the body's systems will be covered. Special attention will be paid to disease prevention.

HSC 4511  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)
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, 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 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. Departmental 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 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.

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  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. Worksite employee issues will be explored including: employee health needs, employee health interests, employee health interests, and accessing employee data. Worksite 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.
IDH-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 Education course. The General Education 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 Education learning outcomes for this course are Analysis / Evaluation, Information Literacy, and Writing. Offered Fall Semester only. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement.

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 Education course. The General Education 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 Education learning outcomes for this course are Analysis / Evaluation, Information Literacy, Team Work Skills, and Service Learning / Civic Engagement. Offered Spring Semester only. Satisfies UWF Breadth requirement in Social Sciences. Meets Multicultural Requirement.

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 12.000 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 12.000 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 12.000 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 12.000 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 12.000 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 12.000 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 4036  Honors Seminar: Topic VII
3 sh (may be repeated for up to 12.000 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 12.000 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 12.000 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 12.000 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 6.000 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 on satisfactory / unsatisfactory basis only.

IDH 4970  Honors Thesis
1-6 sh (may be repeated for up to 6.000 sh of 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.

IHS-Interdis Health Science Courses

INP-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 4112  Military Psychology
3 sh (may not be repeated for credit)

The course focuses on uses of human factors, industrial-organizational, social and clinical psychology in various military settings to promote the behavioral health of service members and families, performance of individuals and teams, and success in military operations. We will treat the study and practice of psychology in the military as a means for gaining useful insights about human behavior. The course is intended to provide students an orientation to areas they may pursue for greater knowledge and/or employment in military psychology settings. This is a seminar course and as such is expected to be highly interactive and a chance for students to share what they have learned from researching individual topics.

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 work-related 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)

Prerequisite: INP 6216

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)

Students must take MAN 3025 or PSY 2012 or SOP 3004 before enrolling in this course. 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 6.000 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.

INR-International Relations Courses

INR 2002  International Politics
3 sh (may not be repeated for credit)

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 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 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 4060 Causes of War
3 sh (may not be repeated for credit)
This course will examine the causes and evolution of war. Drawing widely from new and established scholarship, it addresses several major topics: war's origins and evolution; theories about the causes and nature of war; arguments for a contemporary world of "new wars;" and theories about the future of war. Along the way, the course analyzes several very different international conflicts, World War I, the Cold War and the recent Iraq War. Specific issues addressed amidst these major themes include war and the state; structural and psychological explanations for war; terrorism and irregular war; and the moral/ethical dimensions of war.

INR 4102 American Foreign Policy
3 sh (may not be repeated for credit)
Americans seek to change the world and remain distinct from it. They energetically export their religious views, yet they officially support secularism. Americans denounce imperialism and coercion, yet they are accused of building a global empire and wielding astounding military power. And above all these tensions, Americans exert unparalleled influence and power in a globalized, increasingly democratic world that they helped create, yet they fret about relative decline and entertain plans for retrenchment and isolation. This course, therefore, seeks to analyze how Americans view and pursue their relationship with the world as well as the foundations and conduct of their foreign policy. It considers the institutions and offices, interests and political culture, and international challenges (including security, economic and humanitarian issues) that shape American foreign policy outcomes. To understand these influences, our readings, lecture and discussion will combine scholarly theories and policy perspectives. We will especially focus on debates regarding America's role as a global leader. Course is offered concurrently with INR 5105; graduate students will be assigned additional work.

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 4314 Grand Strategy in International Relations
3 sh (may not be repeated for credit)
This course evaluates the historical, philosophical and scientific dimensions of grand strategy. As a topic, "grand strategy" refers to the link between a state's goals and capabilities. It is how states understand and pursue their perceived interests and roles in the world. Understanding grand strategies offers an essential tool to evaluate states' foreign policies as well as the international system in which they operate. The course works through several historical and contemporary case studies of great and mid-level powers, such as Russia, China and the United States. It considers grand strategy's institutional, cultural and external sources, and it appraises the normative or ethical goals of grand strategy. Throughout these case studies, students will also engage major theories, and they will interrogate key issues such as economic integration, nonproliferation, diplomatic agendas, conflict and cybersecurity. This course is offered concurrently with INR 5316; graduate students will have 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 5065  Causes of War
3 sh (may not be repeated for credit)
This course will examine the causes and evolution of war. Drawing widely from new and established scholarship, it addresses several major topics: war's origins and evolution; theories about the causes and nature of war; arguments for a contemporary world of ?new wars;? and theories about the future of war. Along the way, the course analyzes several very different international conflicts, World War I, the Cold War and the recent Iraq War. Specific issues addressed amidst these major themes include war and the state; structural and psychological explanations for war; terrorism and irregular war; and the moral/ethical dimensions of war. Offered concurrently with INR 4060; graduate students will have additional work.

INR 5105  American Foreign Policy
3 sh (may not be repeated for credit)
Americans seek to change the world and remain distinct from it. They energetically export their religious views, yet they officially support secularism. Americans denounce imperialism and coercion, yet they are accused of building a global empire and wielding astounding military power. And above all these tensions, Americans exert unparalleled influence and power in a globalized, increasingly democratic world that they helped create, yet they fret about relative decline and entertain plans for retrenchment and isolation. This course, therefore, seeks to analyze how Americans view and pursue their relationship with the world as well as the foundations and conduct of their foreign policy. It considers the institutions and offices, interests and political culture, and international challenges (including security, economic and humanitarian issues) that shape American foreign policy outcomes. To understand these influences, our readings, lecture and discussion will combine scholarly theories and policy perspectives. We will especially focus on debates regarding America's role as a global leader. Offered concurrently with INR 4102; graduate students will be assigned additional work.

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 5316  Grand Strategy in International Relations
3 sh (may not be repeated for credit)
This course evaluates the historical, philosophical and scientific dimensions of grand strategy. As a topic, grand strategy refers to the link between a state's goals and capabilities. It is how states understand and pursue their perceived interests and roles in the world. Understanding grand strategies offers an essential tool to evaluate states' foreign policies as well as the international system in which they operate. The course works through several historical and contemporary case studies of great and mid-level powers, such as Russia, China and the United States. It considers grand strategy's institutional, cultural and external sources, and it apprises the normative or ethical goals of grand strategy. Throughout these case studies, students will also engage major theories, and they will interrogate key issues such as economic integration, nonproliferation, diplomatic agendas, conflict and cybersecurity. This course is offered concurrently with INR 4314; graduate students will have 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 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)

INS-International Studies Courses

INS 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ISC-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)

ISM-Information Systems Mgmt Courses

ISM 3011  e-Business Systems Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.
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.

ISM 3116  Business Intelligence Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Business Intelligence Fundamentals uses spreadsheets to identify trends and relationships in business data and how to apply them in a business environment. The focus of the course is on the managerial application of the results rather than the algorithmic derivation of the results.

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 an object-oriented programming language 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 OR COP 2253
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.

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 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 4117  Business Intelligence Applications
3 sh (may not be repeated for credit)
Prerequisite: ISM 3116 OR ISM 4481 OR COP 4710
Business Intelligence Applications uses various information technologies to identify, locate, acquire, transform, visualize and analyze business data in an effort to create new data products within an organizational context. The focus of the course is on using methodologies from design science to create new data products for management use in decision making. Offered concurrently with ISM 5404; graduate students will be assigned additional work.

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 4320  Legal, Ethical, and Human Aspects of Cybersecurity
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
This course address the human facets of cybersecurity. Coverage will include ethics, legal and regulatory environment, psychology, and hacker culture. The focus will be on the human element and the motivation and deterrence of cyber-crimes. Offered concurrently with ISM 5327; graduate students will be assigned additional work.

ISM 4321  Cybersecurity Risk Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
The course focuses on the application of risk management theory and principles to information security policy. An additional major area of focus is incident response and contingency planning consisting of incident response planning, disaster recovery planning, and business continuity planning. Offered concurrently with ISM 5328; graduate students will be assigned additional work.
ISM 4400  Decision Support and Data Integration Systems
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 AND ISM 3235

Current tools and techniques available to support decision-making. Analysis and practice in the building and use of decision support systems and expert/knowledge-based systems.

ISM 4481  Business Data Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Explores the complexities of data management in the digital world of big data. Uses advanced information technology and software tools to analyze data and create business intelligence. Offered concurrently with ISM 5208; graduate students will be assigned additional work.

ISM 4483  Business Data Communication
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 required to support end-to-end, partner-to-partner electronic business processes. Additionally, the course provides an overview of basic network management and security concepts. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.

ISM 4481  Business Data Management
3 sh (may not be repeated for credit)

Explores the complexities of data management in the digital world of big data. Uses advanced information technology and software tools to analyze data and create business intelligence. Offered concurrently with ISM 5208; graduate students will be assigned additional work.

ISM 4483  Business Data Communication
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 required to support end-to-end, partner-to-partner electronic business processes. Additionally, the course provides an overview of basic network management and security concepts. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.

ISM 4481  Business Data Management
3 sh (may not be repeated for credit)

Explores the complexities of data management in the digital world of big data. Uses advanced information technology and software tools to analyze data and create business intelligence. Offered concurrently with ISM 5208; graduate students will be assigned additional work.

ISM 4483  Business Data Communication
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 required to support end-to-end, partner-to-partner electronic business processes. Additionally, the course provides an overview of basic network management and security concepts. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.

ISM 4481  Business Data Management
3 sh (may not be repeated for credit)

Explores the complexities of data management in the digital world of big data. Uses advanced information technology and software tools to analyze data and create business intelligence. Offered concurrently with ISM 5208; graduate students will be assigned additional work.

ISM 4483  Business Data Communication
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 required to support end-to-end, partner-to-partner electronic business processes. Additionally, the course provides an overview of basic network management and security concepts. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.
JAP-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)

ISM 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JOU-Journalism Courses

JOU 3100 News Reporting
3 sh (may not be repeated for credit)
Prerequisite: COM 2713 AND ENC 1101 AND ENC 1102
This course will serve as an introduction to the world of news reporting, both print and online. Students will get a taste of what journalists do daily: generate story ideas, develop sources, conduct interviews, write, edit, rewrite and edit again. The course also will provide an overview of media law, media ethics and Associated Press style.

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.

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 3370 Issues in Journalism
3 sh (may be repeated for up to 90.000 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 6.000 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, outline 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 4306 Writing Critical Reviews
3 sh (may not be repeated for credit)
Devoted to writing reviews of books, film, art, and music. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

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)

JST-Jewish/Judaic Studies Courses

LAE-Lang Arts English Ed Courses

LAE 3314 Literacy for the Emergent Learner
3 sh (may not be repeated for credit)
This course introduces pre-service teachers to the development of early literacy from birth through the primary grades. It focuses on the development of language skills, phonological awareness, word identification, fluency, and comprehension. Students will examine theories of early literacy development along with effective practices for instructing young children. This course meets the requirements for Competency 1 of Florida's Reading Endorsement.

LAE 3324 Teaching Language Arts in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
This course is designed to assist pre-service teachers in utilizing researched-based theory and methods in implementing a dynamic and successful literacy program in the middle/secondary classroom. Emphasis is placed upon provision of a balance between expressive and practical composition opportunities for students and upon instructional procedures to assist pupils in developing the strategies and skills that support effective written and verbal communication.

LAE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

LAE 4464 Young Adult Literature
3 sh (may not be repeated for credit)
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.

LAE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

LAE 5345 Teaching Pupils to be Effective Writers
3 sh (may not be repeated for credit)
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.

LAE 5468 Literature for Children and Young Adults
3 sh (may not be repeated for credit)
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.

LAE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
LEI 4321  Sport, Adventure and Ecotourism
3 sh (may not be repeated for credit)

Prerequisite: HFT 3003; Completion of 60 hours of college course work is required prior to taking this course.

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.

LAH 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

LAH 6476  Colonial Caribbean
3 sh (may not be repeated for credit)

This class introduces students to the colonial Caribbean as a historically unique region. It begins in 1492 with contact and ends with the emancipation of 1833. We will move rapidly through the century of Spanish hegemony before turning to the British islands as they evolved from frontiers to mature plantation societies. Students will evaluate scholarship and sources in the classroom and in major research projects.

LAH 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

LAT-Latin (Language Study) Courses

LAT 1120C  Latin 1
4 sh (may not be repeated for credit)

Latin I introduces students to the fundamentals of the Latin language and provides the basic skills for reading and translating Latin poetry and prose. It also exposes students to the language, culture and history of the Romans. Students will master the vocabulary, morphology, and syntax and practice in the fluid translation of Latin to English and English to Latin. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

LIN-Linguistics Courses

LIN 3673  Grammar for Professional Success
3 sh (may not be repeated for credit)

An upper-division grammar class which focuses on the principles and conventions of writing. The purpose of this course is twofold: to review the regulatory rules of writing so that students can write responsibly by controlling and editing their own work; and to offer students the language choices available to them as speakers and writers of American English: language choices for informal conversations and texting, for instance, versus language choices for academic, business, and other forms of published writing. Because acceptable professional communication is different from some “acceptable” forms of digital communication, the course makes overt distinctions between the two.

Whether your goal is to improve your writing, review the mechanics of writing, become a professional editor, or to learn enough grammar to teach it, this course will give you the kind of knowledge about the English language that most educated members of our society share. The principal goal of Practical Grammar is to offer students a review of the principles and rules of standard American English so that they can edit their own documents. As William Strunk, Jr. says in The Elements of Style, “One must first know the rules [of grammar] to break them.”.
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)

LIS-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)

LIT-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. Meets Gordon Rule Writing Requirement.
LIT 1905   Directed Study
1-12 sh (may be repeated indefinitely for credit)
LIT 2000   Introduction to Literature
3 sh (may not be repeated for credit)
This course is designed for students from all majors who are interested in learning more about reading literature at the college level. A wide range of literary works are examined, with an emphasis on exposing students to as many genres as possible. Critical thinking and writing skills are also emphasized. Students considering a major in English or who enjoy reading good books are encouraged to take this course. Satisfies Florida Common Core Humanities requirement. Meets Gordon Rule Writing Requirement. 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. Meets Multicultural Requirement.
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. Meets Multicultural Requirement.
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 12.000 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 12.000 sh of credit)
Special topics in poetry.
LIT 5105   Topics in World Literature
3 sh (may be repeated for up to 12.000 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)

MAA-Mathematics: Analysis Courses
MAA 4211   Advanced Calculus I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MHF 3202
MAA 4212  Advanced Topics in Multi-Variable Calculus
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313


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)

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 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAC-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 083 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. Satisfies Florida Common Core Mathematics requirement. Meets Gordon Rule Theoretical Mathematics Requirement.

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. Satisfies UWF Breadth requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 1233  Calculus with Business Applications
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 083 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. Satisfies Florida Common Core Mathematics requirement. Meets Gordon Rule Theoretical Mathematics Requirement.

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. Satisfies UWF Breadth requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 2311  Analytic Geometry and Calculus I
4 sh (may not be repeated for credit)
Prerequisite: MAC 1114 AND MAC 1140

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. Satisfies UWF Breadth requirement in Mathematics.
Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 2313  Analytic Geometry and Calculus III
4 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Analytic Geometry and Calculus. Vectors and Vector-Valued
Functions. Partial Differentiation. Multiple Integration.

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 4.000 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)

* This course may be taken prior to or during the same term.

**MAE-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. Meets Gordon Rule
Theoretical Mathematics Requirement.

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.

* This course may be taken prior to or during the same term.

**MAE-Mathematics: Education Courses**

MAE 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAE 4310  Teaching Mathematics in the Elementary School
3 sh (may not be repeated for credit)
This course is a requirement for the elementary education teacher
preparation program. The course is designed to provide students
with the methodology requisite to effective mathematics teaching in
elementary school classrooms. The coursework centers on utilizing
mathematics content knowledge and process skills in the development
of effective instructional strategies for the elementary level learners.
This course addresses the Next Generation Sunshine State Standards
(Common Core State Standards for Mathematics) within lesson
planning assignments. Material and supply fee will be assessed.
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; explores current research on approaches in teaching and learning mathematics; examines the practice of mathematics, disciplinary core ideas in mathematics, and crosscutting themes in mathematics; compares various models of teaching (i.e. direct instruction, inquiry, project-based learning); includes practices to effectively move student thinking toward meaningful understanding focusing on best practices in STEM disciplines.

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 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)
* This course may be taken prior to or during the same term.

MAN-Manageement Courses

MAN 3025  Management Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.
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)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.
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)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.
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 can only be earned for one of these three courses: MAN 3540, MAN 3550 and ISM 3XX1.

MAN 3583  Project Management
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.
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 4.000 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)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.
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 work force toward a more productive unit. Offered concurrently with MAN 5116; graduate students will be assigned additional work. Meets Multicultural Requirement.

MAN 4280  Business Leadership and Change Management
3 sh (may not be repeated for credit)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.
A course on Leadership and Change Management to prepare students to respond to the needs of a dynamic global business climate. Prepares students to take responsibility to work collaboratively with others in developing change management strategies in bringing about change and overcoming resistance.

MAN 4300  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 4341  Performance Management
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301
Employees are commonly recognized as an organization's most valuable resource. Thus, ensuring that employees achieve and maintain their highest performance is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research in change management, organizational development, performance management, and training so that students may learn how to effectively manage human capital for optimal performance. Offered concurrently with MAN 5347; graduate students will be assigned additional work.

MAN 4350  Recruitment and Selection
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 best practices, current trends, legal issues, and research on effective recruitment and selection of human capital so that students may learn how to establish and effectively manage staffing systems. Offered concurrently with MAN 5351; graduate students will be assigned additional work. Offered concurrently with MAN 5351; graduate students will be assigned additional work.

MAN 4441  Business Negotiation
3 sh (may not be repeated for credit)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.
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 5446; graduate students will be assigned additional work.

MAN 4570  Purchasing and Supply Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202
Students will learn the fundamental concepts of purchasing, negotiation and supply management. Emphasis is placed on strategic sourcing, negotiation, cost management, balanced scorecards, ethics, electronic purchasing, forming supplier partnerships and managing supplier quality. The class will provide strategic understanding for the organizational buyer and challenge students with practical examples of purchasing situations relevant within the supply chain. Offered concurrently with MAN 5573; graduate students will be assigned additional work.

MAN 4597  Global Logistics Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202
This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility operations, raw material and finished goods movement across borders, and equipment and technology for global logistics. Offered concurrently with MAN 5619; graduate students will be assigned additional work.

MAN 4720  Strategic Management
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND GEB 3213 AND MAN 3025 AND MAN 3504 AND MAR 3023
The capstone course for BSBA in the College of Business offers a culminating experience for students from all majors which involves 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. Must be taken at UWF.
MAN 4750  The Future: Projecting, Planning and Managing  
3 sh (may not be repeated for credit)  
Prerequisite: GEB 3213  
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)  
Prerequisite: Completion of 90 hours of college course work is required prior to taking this course.  
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 work force 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. Graduate student status is required.

MAN 5347  Performance Management  
3 sh (may not be repeated for credit)  
Employees are commonly recognized as an organization's most valuable resource. Thus, ensuring that employees achieve and maintain their highest performance is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research in change management, organizational development, performance management, and training so that students may learn how to effectively manage human capital for optimal performance. Offered concurrently with MAN 4341; graduate students will be assigned additional work. Graduate student status is required.

MAN 5351  Recruitment and Selection  
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 best practices, current trends, legal issues, and research on effective recruitment and selection of human capital so that students may learn how to establish and effectively manage staffing systems. Offered concurrently with MAN 4350; graduate students will be assigned additional work. Graduate student status is required.

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. Graduate student status is required.

MAN 5573  Purchasing and Supply Management  
3 sh (may not be repeated for credit)  
Students will learn the fundamental concepts of purchasing, negotiation and supply management. Emphasis is placed on strategic sourcing, negotiation, cost management, balanced scorecards, ethics, electronic purchasing, forming supplier partnerships and managing supplier quality. The class will provide strategic understanding for the organizational buyer and challenge students with practical examples of purchasing situations relevant within the supply chain. Must have the equivalent of MAR 3202 Supply Chain Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4570; graduate students will be assigned additional work.

MAN 5619  Global Logistics Management  
3 sh (may not be repeated for credit)  
This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility operations, raw material and finished goods movement across borders, and equipment and technology for global logistics. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4597; 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 6317  Strategic Issues in Human Resources Management
3 sh (may not be repeated for credit)
Integrates current research, best practices, human resource policy and strategy in order to maximize organizational effectiveness using human capital. Emphasis is placed on applying strategic human resource management principles in order to leverage the workforce to achieve organizational objectives. Case analyses using real business problems are analyzed by integrating the functional areas of human resource management with business strategies, helping students to understand the linkage between theory and practice.

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)

MAP-Mathematics: Applied Courses

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, Queuing systems, applications to quality control. Offered concurrently with MAP 5116; graduate students will be assigned additional work. Meets Gordon Rule Applied Mathematics Requirement.

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. Offered concurrently with MAP 5345; graduate students will be assigned additional work. Meets Gordon Rule Theoretical Mathematics Requirement.

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, Queuing 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, Completeness, 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.
expected to have some familiarity with Windows and the Internet. A valuable tool in helping students access information; a project is designed to teach students to evaluate, integrate, and report services and knowledge of when to use which service. A course Emphasis is placed on learning the types of online information and how these sources may be effectively and efficiently searched. Organized, what types of secondary information sources are available for business decisions. Students learn how secondary information is Focuses on various secondary information sources that may be used 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. 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. This course provides a basic foundation in numerical methods for solving partial differential equations. 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. Presents 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 3023 Marketing Fundamentals 3 sh (may not be repeated for credit) Prerequisite: Completion of 45 hours of college course work is required prior to taking this course. 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 4236  Social Media Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Students will learn a conceptual foundation and practical approach to developing successful social media marketing plans. Emphasis will be placed on a social media planning model that provides students with a cumulative learning experience, showing them how to construct social media strategies that achieve desired marketing goals.

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  Digital Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
This course explores digital marketing in the context of business issues that concern marketers. Topics will include websites, online branding, search marketing, and social media marketing. In addition, the course covers email marketing and marketing analytics.

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 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)  
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 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 4905  Directed Study  
1-12 sh (may be repeated indefinitely 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 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.

MAS-Math: Algebraic Structures Courses

MAS 3105  Linear Algebra  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2312  
MAT 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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. Meets Gordon Rule Theoretical Mathematics Requirement.

MAS 4203 Number Theory
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202


MAS 4301 Abstract Algebra
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202


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.

MAT 1905 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 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 5905 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 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAT 6903 Mathematics Research 1
3 sh (may not be repeated for credit)

This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor with the thrust being applied or theoretical mathematics. Technical reports and oral presentations will be expected of each student. Students must have completed 15 hours of graduate course work in the program and have maintained at least a 3.0 GPA. Students must also commit to both fall and spring sections of the course.

MAT 6904 Mathematics Research 2
3 sh (may not be repeated for credit)
Prerequisite: MAT 6903

This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor with the thrust being applied or theoretical mathematics. Technical reports and oral presentations will be expected of each student.

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 8.000 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.
**MCB-Microbiology Courses**

**MCB 1000  Fundamentals of Microbiology**
3 sh (may not be repeated for credit)
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. Satisfies UWF Breadth requirement in Natural Sciences.

**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. The lab will focus on basic microbiological techniques relating to isolating, growing, and identifying medically significant microorganisms. Laboratory exercises include microscopy and staining techniques; asepsis and culturing of microorganisms; appropriate handling techniques, including sterilization and disinfection; and methods of enumeration and identification of bacteria. Emphasis will be placed on those concepts and methods that are significant in the medical setting. Material and supply fee will be assessed.

**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 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.

**MGF-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. Satisfies Florida Common Core Mathematics requirement. Meets Gordon Rule Theoretical Mathematics Requirement.

**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. Satisfies Florida Common Core Mathematics requirement. Meets Gordon Rule Theoretical Mathematics Requirement.

**MHF-Math: Hist Foundations Courses**

**MHF 3202  Set Theory and Mathematical Logic**
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312*

**MHF 3905  Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**MHF 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.

**MHF 4905  Directed Study**
1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.
MKA-Marketing Applications Courses

MLS-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
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063
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
1 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 conventional PCR, electrophoresis for DNA and proteins, real time PCR, densitometry, Southern Blot and Western Blot techniques. Material and Supply fee will be assessed. Equipment fee will be assessed. Permission is required.

MLS 4220  Urinalysis/Body Fluids I
1 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
1 sh (may not be repeated for credit)
Co-requisite: MLS 4220

Corresponding Lab for Urinalysis / Body Fluids I.

MLS 4305  Hematology I
3 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 hematology 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
1 sh (may not be repeated for credit)
Co-requisite: MLS 4305

Corresponding lab for Hematology I.

MLS 4334  Hemostasis and Thrombosis
1 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
1 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
3 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 4505  Clinical Immunology
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063
Co-requisite: MLS 4505L

The course is divided into 3 major sections. The immune system and its components, complement, antibody and antigens, cellular and humoral immunity are described. Immune-mediated diseases, such as AIDS, Hemolytic Disease of the Newborn and Lupus Erythematosus are discussed. Diseases that are diagnosed using serologic methods, such as syphilis, infectious mononucleosis, and measles are discussed. Current methodologies used in the medical serology and immunodiagnostic laboratory are introduced. Permission is required.

MLS 4505L  Clinical Immunology Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4505

The laboratory section is a co-requisite to Clinical Immunology. The course reinforces laboratory safety and sample collection and processing, and gives the student practical experience using serologic and immunologic techniques, such as agglutination, precipitation, immunofluorescence, ELISA, and antibody elution and detection methods. Material and Supply Fee will be assessed. Equipment Fee will be assessed. Permission is required.

MLS 4550  Immunohematology I
3 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
1 sh (may not be repeated for credit)
Co-requisite: MLS 4550

Corresponding lab for Immunohematology I.

MLS 4625  Clinical Chemistry I
2 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, immunodiagnostics 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
1 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, immunodiagnostics, and computer generated analyses. Material and Supply fee will be assessed. Permission is required.
MLS 4630  Clinical Chemistry II
2 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
1 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, toxicity 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.

MLS 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.

MLS 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.

MLS 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.

MLS 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.

MLS 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.

MLS 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MMC-Mass Media Communications Courses

MMC 2000  Principles of Mass Communication
3 sh (may not be repeated for credit)

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.
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.

MMC 3001 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.

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)

**MSL-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)
MTG-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: MUF 3202
Axiomatic systems, non-Euclidean geometries, synthetic and algebraic projective geometry. Knowledge of high school geometry is required. Meets Gordon Rule Theoretical Mathematics Requirement.

MTG 3905 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.

MUC-Music: Composition Courses

MUC 4200 Introduction to Music Composition
2 sh (may not be repeated for credit)
Prerequisite: MUT 3611 AND MUT 4311
This course is a progressive exploration of a variety of compositional techniques, repertoire, concepts, and aesthetics from the recent past. The course provides students interested in composition with the basic tools needed to compose effectively in contemporary idioms.

MUE- 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 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 4.000 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)

MUC-Music: Composition Courses

MUC 4200 Introduction to Music Composition
2 sh (may not be repeated for credit)
Prerequisite: MUT 3611 AND MUT 4311
This course is a progressive exploration of a variety of compositional techniques, repertoire, concepts, and aesthetics from the recent past. The course provides students interested in composition with the basic tools needed to compose effectively in contemporary idioms.

MUE- 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 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 4.000 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 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)

MUG-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.

MUG 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUH-Music: History/Musicology Courses
MUH 2030  Women in Popular Music
3 sh (may not be repeated for credit)
An exploration of the rich heritage of 20th and 21st century iconic popular female performers and song-writers. The primary focus of this class will be to examine how the lives and musical output of female musicians were influenced by major historical events throughout the modern era such as World War I and II, the suffrage movement, the women's liberation movement and other events leading up to current times. Includes detailed studies of legendary female musicians such as Ella Fitzgerald, Edith Piaf, Barbra Streisand, Dolly Parton and Lady Gaga.

MUH 2930  The Music Experience: Special Topics
3 sh (may be repeated for up to 9.000 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. Satisfies UWF Breadth requirement in Humanities. 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. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

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)

MUL-Music: Literature Courses

MUL 2010  Music Appreciation  
3 sh (may not be repeated for credit)  
Musical perspectives within Western civilization. Designed to express the correlation of music, art, and literature in Western culture. Special emphases include the nature of music, both past and present, and music as reflection / expression of society’s vital activities. Credit cannot be earned in both MUH 2110 and MUL 2110. Satisfies Florida Common Core Humanities requirement. Meets Multicultural Requirement.

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 3551  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 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)

MUH 5905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
* This course may be taken prior to or during the same term.

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)

MUN-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  Chamber Choir  
1 sh (may be repeated indefinitely for credit)  
Select mixed choral ensemble performing a cappella and chamber 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 18,000 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 Chamber Choir
1 sh (may be repeated indefinitely for credit)
Select mixed choral ensemble performing a cappella and chamber 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 8.000 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 10.000 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)

MUS 2241  Diction for Singers I: Italian
1 sh (may not be repeated for credit)
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.

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 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUT-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 neopolitan 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)
Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition. Chord types and related scales, chord progressions, memorization, and listening are covered. Credit may not be received in both MUT 3671 and MUT 3641.

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)
Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition. Chord types and related scales, chord progressions, summarization, and listening are covered. Credit may not be received in both MUT 3671 and MUT 3641.

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)

MVB-Applied Music: Brasses Courses

MVB 1311   Applied Music Trumpet
2-3 sh (may be repeated for up to 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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 2322   Applied Music Horn  
2-3 sh (may be repeated for up to 9.000 sh of credit)  
Individual instruction in applied music in horn. 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 2323   Applied Music Trombone  
2-3 sh (may be repeated for up to 9.000 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 9.000 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 9.000 sh of credit)  
Individual instruction in applied music in tuba. 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 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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)  
Performance majors only.  
Prior to graduation all students seeking a performance specialization in music 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 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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.

MVB 4971  Senior Recital - Brass
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-Applied Music: Keyboard Courses**

MVK 1111  Class Piano I
1 sh (may be repeated for up to 8.000 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 8.000 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 9.000 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 9.000 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 1412  Applied Music Harpsichord
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors
of the freshmen 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 students
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 9.000 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 6.000 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 9.000 sh of credit)
Individual instruction in applied music 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 9.000 sh of credit)
Individual instruction in applied harpsichord. 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 3331  Performance: Keyboards
3 sh (may be repeated for up to 6.000 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 9.000 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 9.000 sh of credit)
Individual instruction in applied music 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 9.000 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 3720 Collaborative Piano (Vocal)
3 sh (may be repeated for up to 9.000 sh of credit)
Through the study of representative works from the Piano/Vocal repertoire, students will learn the necessary skills for a successful collaboration. Among others, issues of balance, tempo, score preparation, rehearsal techniques, learning techniques will be discussed. This is a performance based course in which piano/vocal duos will be assigned for in-class performances. Students will be coached and critiqued by their professor and colleagues in a master class format.

MVK 3721 Collaborative Piano (Instrumental)
3 sh (may be repeated for up to 9.000 sh of credit)
Through the study of representative works from the Piano/Instrumental repertoire, students will learn the necessary skills for a successful collaboration. Among others, issues of balance, tempo, score preparation, rehearsal techniques, learning techniques will be discussed. This is a performance based course in which piano/instrumental duos will be assigned for in-class performances. Students will be coached and critiqued by their professor and colleagues in a master class format.

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 music (senior level) and permission is required. Performance majors only.

MVK 3932 Piano Interpretation
2 sh (may not be repeated for credit)
Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for voice involving a piano accompaniment. Survey of literature, both chamber and orchestral, for soprano, mezzo soprano, alto, tenor, baritone, and bass voice types with emphasis on performance techniques. Two years of applied piano and permission is required.

MVK 3942 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 3943 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 4005 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MVK 4201 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 4341 Piano Interpretation
2 sh (may not be repeated for credit)
Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for voice involving a piano accompaniment. Survey of literature, both chamber and orchestral, for soprano, mezzo soprano, alto, tenor, baritone, and bass voice types with emphasis on performance techniques. Two years of applied piano and permission is required.

MVK 4342 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 9.000 sh of credit)
Individual instruction in applied music in piano. Primarily for music majors of Graduate level standing. Permission is required.

**MVP-Applied Music: Percussion Courses**

**MVP 1311**  Applied Music Percussion
2-3 sh (may be repeated for up to 9.000 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 9.000 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 6.000 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 9.000 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.

**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 9.000 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.

**MVS-Applied Music: Strings Courses**

**MVS 1311**  Applied Music Violin
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in violin. 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.

**MVS 1312**  Applied Music Viola
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in viola. 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.

**MVS 1313**  Applied Music Cello
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in cello. 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.

**MVS 1314**  Applied Music Bass
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in bass. 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.

**MVS 1811**  Violin Class
1 sh (may not be repeated for credit)
Small group instruction in violin. Students will be given instruction on the violin in a small group setting. May not be taken for credit by Music majors. Permission is required.

**MVS 2321**  Applied Music Violin
2-3 sh (may be repeated for up to 9.000 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 2322**  Applied Music Viola
2-3 sh (may be repeated for up to 9.000 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 2323**  Applied Music Cello
2-3 sh (may be repeated for up to 9.000 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 2324  Applied Music Bass  
2-3 sh (may be repeated for up to 9.000 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.

MVS 2326  Applied Music Guitar  
2-3 sh (may be repeated for up to 9.000 sh of credit) 
Individual instruction in applied music in guitar. 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 3331  Applied Music Violin  
2-3 sh (may be repeated for up to 9.000 sh of credit) 
Individual instruction in applied music in violin. 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 3332  Applied Music Viola  
2-3 sh (may be repeated for up to 9.000 sh of credit) 
Individual instruction in applied music in viola. 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 3333  Applied Music Cello  
2-3 sh (may be repeated for up to 9.000 sh of credit) 
Individual instruction in applied music in cello. 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 3334  Applied Music Bass  
2-3 sh (may be repeated for up to 9.000 sh of credit) 
Individual instruction in applied music in bass. 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 3336  Applied Music Guitar  
2-3 sh (may be repeated for up to 9.000 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 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 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission required.

MVS 4341  Applied Music Violin  
2-3 sh (may be repeated for up to 9.000 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 9.000 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 9.000 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 4344  Applied Music Bass  
2-3 sh (may be repeated for up to 9.000 sh of credit) 
Individual instruction in applied music in bass. 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 2321  Performance: Voice  
2 sh (may be repeated for up to 6.000 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 2322  Applied Music Voice  
2-3 sh (may be repeated for up to 9.000 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-Applied Music: Voice Courses

MVV 1311  Applied Music Voice  
2-3 sh (may be repeated for up to 9.000 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 6.000 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 9.000 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 2905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)
MVV 1313  Applied Music Clarinet
2-3 sh (may be repeated for up to 9.000 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.

MVV 1314  Applied Music Bassoon
2-3 sh (may be repeated for up to 9.000 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.

MVV 1315  Applied Music Saxophone
2-3 sh (may be repeated for up to 9.000 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-Applied Music: Woodwinds Courses

MVW 1311  Applied Music Flute
2-3 sh (may be repeated for up to 9.000 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 9.000 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 1314  Applied Music Bassoon
2-3 sh (may be repeated for up to 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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 9.000 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 3331  Applied Music Flute
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in flute. 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.

MVW 3332  Applied Music Oboe
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in oboe. 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.

MVW 3333  Applied Music Clarinet
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in clarinet. 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.

MVW 3334  Applied Music Bassoon
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in bassoon. 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.

MVW 3335  Applied Music Saxophone
2-3 sh (may be repeated for up to 9.000 sh of credit)
Individual instruction in applied music in saxophone. 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.

MVW 3970  Junior Recital - Woodwinds
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization must present a complete public recital. Permission to give a recital is secured from the student’s 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.

NGR-Nursing: Graduate Courses

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 AND NGR 6880
This culminating specialization seminar II course expands the students' knowledge and skill in nursing education. Exploration of curriculum, evaluation, accreditation and synthesis of the nurse educator role are primary course components. This course provides the student with the opportunity to apply nursing education principles in a 90 hour preceptorship setting with experienced nurse educators in both academic and/or clinical settings.

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 6734 Project Development and Management for Nurse Leaders
3 sh (may not be repeated for credit)
This core course in the MSN Leadership and Management program provides a foundation for project management conducted by nurses as it applies to healthcare. Development of health project ideas, implementation strategies and skill sets for project management and information technology are specific foci. At the end of this course, students should be able to develop, execute, and control a basic project plan that is capable of supporting organizational objectives linked to measures of success for a single project.

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 6793 Economics of health management for nurse leaders
3 sh (may not be repeated for credit)
This core course in the MSN Leadership and Management program explores basic economics, market drivers and restraints, foundational financial management processes and managerial accounting principles in order to equip the student with business and financial skills for data-driven decisions in nursing and healthcare. The course culminates with the development of a business case for an identified service or problem resolution.
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 6800 AND NGR 6833 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 6800 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 6800 AND NGR 6834 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 6872  Information systems technology for nurse leaders
3 sh (may not be repeated for credit)

This core course in the MSN Leadership and Management program provides a foundation of information needed by advance practice nurses related to technology and changes in healthcare delivery, reimbursement models, administrative application, care delivery application, and research. Quality improvement, patient safety and the analysis of relevant data to the improvement of healthcare will be explored.

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)

NSP-Nursing Special Courses

NSP 3845  Academic Writing in Nursing I
1 sh (may not be repeated for credit)
Co-requisite: NUR 3081

Provides an introduction to the academic reading and writing characteristics of higher education for the RN-BSN student. Within the context of the nursing profession the student will demonstrate the ability to read critically, write effective arguments, and practice the writing process using APA style format. Co-requisite NUR 3081.

NSP 4846  Academic Writing in Nursing II
1 sh (may not be repeated for credit)
Co-requisite: NUR 4165

Continues the foundation for the academic reading and writing characteristics of higher education for the RN-BSN student. Within the context of evidence-based nursing practice the student will conduct a scholarly literature review, write extended arguments, and further develop writing expertise using APA style format. Co-requisite NUR 4165.

NUR-Nursing: Generic Undergrad Courses

NUR 3003L  Patient Centered Care I Lab
3 sh (may not be repeated for credit)
Co-requisite: NUR 3026, NUR 3095, NUR 3138, NUR 3805

This course provides the student with clinical skill development and patient centered care clinical experiences effectively grounded in the principles of safety, quality, interprofessional care, and evidence based practice. Translation of theory to practice is emphasized.

NUR 3026  Patient Centered Care I
4 sh (may not be repeated for credit)
Co-requisite: NUR 3003L, NUR 3138, NUR 3805, NUR 3905

This course will introduce the student to the use of evidence-based strategies and the nursing process in provision of patient centered care of adults and older adults with chronic or non-complex acute illnesses. An emphasis of this course will focus on safety, quality of care, and interprofessional collaborative efforts to optimize patient outcomes.
NUR 3065  Patient Centered Care II
4 sh (may not be repeated for credit)
Co-requisite: NUR 3065L
This course provides the student vital knowledge on the increasing acuity of common health illnesses and related nursing care interventions for the Adult Health client across the lifespan. Through critical thinking, clinical reasoning, evidence based practice and problem based learning, students gain an understanding of actual and potential complex health problems.

NUR 3065L  Patient Centered Care II Lab
3 sh (may not be repeated for credit)
Co-requisite: NUR 3065C
This clinical course provides the student with applicable clinical experiences caring for adult health clients with varied illnesses. Through clinical experiences, the concepts of critical thinking, clinical reasoning, quality and safety initiatives, and evidence based practice are further formulated in client care situations.

NUR 3067  Health Assessment and Promotion
3 sh (may not be repeated for credit)
For the RN-BSN student, this course focuses on enhancing knowledge and skills in health history interviews, health screening, and selected physical examination techniques. Identification of primary health needs and the ability to locate reliable internet resources is explored.

NUR 3081  Transition to Professional Nursing Practice
3 sh (may not be repeated for credit)
Co-requisite: NSP 3845
This introductory course for the RN-BSN student provides educational based guidance in progressing into the role of the baccalaureate nurse through exploration of nursing theories, healthcare policy, and the core healthcare professional competencies.

NUR 3095  Introduction to Pharmacological Nursing
2 sh (may not be repeated for credit)
Co-requisite: NUR 3003L, NUR 3026, NUR 3095
This course focuses on the pharmacologic aspects of nursing practice. A foundation of knowledge is built in relation to pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of drug therapy. The nurses’ role in error prevention and patient safety during medication administration is carefully examined.

NUR 3138  Health Assessment and Promotion in Nursing Practice
3 sh (may not be repeated for credit)
This course introduces students to health assessment as a systematic process with emphasis on therapeutic communication skills and assessment of health across the lifespan. Focus is on the development of therapeutic relationships and the use of general and specialized assessment skills as a basis for clinical decision making.

NUR 3145  Pharmacotherapeutics for the RN-BSN
3 sh (may not be repeated for credit)
For the RN-BSN student, this course focuses on the principles and concepts of pharmacology, current population specific treatment and related nursing practices.

NUR 3505  Mental Health Nursing Care
3 sh (may not be repeated for credit)
Co-requisite: NUR 3505L
Students will examine the constructs of mental health, and mental illness focusing on restoration and maintenance of individuals experiencing acute and chronic mental health issues. Evidence-based nursing strategies, with a focus on cultural considerations and groups across the lifespan will be addressed. Meets Multicultural Requirement.

NUR 3505L  Mental Health Nursing Care Lab
2 sh (may not be repeated for credit)
Co-requisite: NUR 3505
This course provides the mental health clinical component of Mental Health Nursing Care. Students will perform therapeutic nursing care to diverse individuals and families across the life span. The use of evidence based practice guidelines will be incorporated into the provision of nursing care of those individuals who chronic mental health disorders. Meets Multicultural Requirement.

NUR 3805  Achieving Professionalism I
3 sh (may not be repeated for credit)
Co-requisite: NUR 3003L, NUR 3026, NUR 3095
This course introduces the student to key concepts and expectations of professional nursing. A comprehensive examination of nursing history, theories and models, the nursing process, nursing organizations, law and liability, ethics, education, health care systems, and professional organizations are discussed. Additionally, the student will explore the primary roles of a professional nurse and what key elements are required.

NUR 3835  Achieving Professionalism II
2 sh (may not be repeated for credit)
Prerequisite: NUR 3003L AND NUR 3026 AND NUR 3138 AND NUR 3805
This course introduces new content and builds on the concepts examined in Achieving Professionalism I. The student will now begin to explore concepts such as power, the politically active nurse, the health care debate, understanding behavior, the aging impact, and other developments in current nursing practice.

NUR 3871  Health Care Informatics
2 sh (may not be repeated for credit)
Prerequisite: NUR 3003L AND NUR 3026 AND NUR 3095 AND NUR 3138
This course introduces students to informatics as it applies to health care in general with a special focus on nursing practice. The emphasis of this course is on the integration of nursing, computer, and information science for the support of professional nursing practice. Core informatics concepts, competencies, skills, and tools that promote safety, improve quality, and foster patient centered care and efficiency are introduced.

NUR 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
This course provides the student with applicable clinical experiences caring for complex adult health clients with varied illnesses. Through clinical, lab, and simulation experiences, the concepts of clinical reasoning, clinical judgment, and care centered in quality and safety is emphasized. Use of evidence in the provision of complex care is also a course focus.

This final patient centered care lab course focuses on the provision of safe, competent, quality nursing care to those individuals who have high acuity illness, are unstable, or have life threatening conditions. The nurse’s role as provider and manager of care is emphasized as part of this preceptor based clinical experience.

This course introduces the baccalaureate nursing student to evidence-based nursing practice. Students will explore quality care initiatives through the integration of theory, evidence, clinical judgment and patient preferences. Meets Gordon Rule Writing Requirement.

The purpose of this course is to examine strategies for wellness promotion, disease prevention, and disaster management in communities and populations utilizing evidence based practice. Emphasis is on global health and the epidemiologic principles that affect the health of vulnerable populations. This course provides students the opportunity to plan and implement a service learning project in a vulnerable population community. Meets Multicultural Requirement.
NUR 4905 Directed Study
plan for a vulnerable population in the community setting.
The student will design and implement an evidence based teaching
This capstone course focuses on the role of nurse as health educator.

NUR 4895 Health Education in the Community

NUR 4828 Nursing Systems Management
This RN-BSN course provides an overview of essential nurse leader/
manager skills, knowledge, and expertise required for complex health
care environments. An emphasis on quality and safety initiatives will be
examined to ensure the provision of highly reliable care.

NUR 4827 Leadership and Management in Nursing
The purpose of this course is to examine leadership and management
concepts used to address complex microsystem issues within selected
healthcare organizations. Emphasis is on the application of advanced
communication skills in collaboration with interprofessional teams.
Focus is on the interrelationship of selected roles within the context of
specific theoretical frameworks and models of care.

OCC 4002 Chemical Oceanography
This is a 5-week, field intensive course designed to expand student
knowledge of the biodiversity, geochemistry, and human impact of
Florida’s coastal and offshore ecosystems through a round-robin
trip around Florida to explore marine eco-systems. This course will
take students from the reefs of the Florida Keys to the open Gulf of
Mexico aboard state-of-the-art research vessels, as well as shallow
tropical estuaries of the western Everglades, the temperate Estuarine
and Coastal environments of Northeast Florida, and watersheds
in northwest Florida. Field and laboratory work will allow students
to utilize current marine research methods while learning about
marine environments and their organisms. Some field activities will be
physically demanding. Required prerequisites include Chem I and II,
Bio I and II, or permission of the instructor is required.

OCB 5203 Biology of Coral Reefs
Overall, the aim of this course is to highlight the organization, structure,
productivity, and biological diversity of the coral reef ecosystem. This
course will address the taxonomy, biology, and ecology of the main
groups (inhabitants & builders) on coral reefs. Special attention and
focus will be given to environmental and anthropogenic disturbances.
Offered concurrently with OCB 5203 (Biology of Coral Reefs).

OCC-Chemical Oceanography Courses

OCC 4002 Chemical Oceanography
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
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.
### OCE-General Oceanography Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Repeatable</th>
<th>Prerequisite</th>
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</thead>
<tbody>
<tr>
<td>OCE 3007</td>
<td>Concepts of Oceanography and Marine Biology</td>
<td>3</td>
<td>(may not be repeated for credit)</td>
<td>BSC 2311</td>
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<td></td>
<td>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.</td>
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<tbody>
<tr>
<td>OCE 3905</td>
<td>Directed Study</td>
<td>1-12</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>OCE 4265</td>
<td>Remote Sensing of Oceans</td>
<td>3</td>
<td>(may not be repeated for credit)</td>
<td>BSC 2311</td>
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<td></td>
<td>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 allometry, and sea ice.</td>
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<td>Directed Study</td>
<td>1-12</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>OCE 5905</td>
<td>Directed Study</td>
<td>1-12</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>OCE 6905</td>
<td>Directed Study</td>
<td>1-12</td>
<td>(may be repeated indefinitely for credit)</td>
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### ORI-Oral Interpretation Courses

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<th>Prerequisite</th>
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<tbody>
<tr>
<td>PAD 5107</td>
<td>Modern Public Organization Theory</td>
<td>3</td>
<td>(may not be repeated for credit)</td>
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<tr>
<td></td>
<td>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.</td>
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### PAD-Public Administration Courses

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<tr>
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<th>Prerequisite</th>
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<tbody>
<tr>
<td>PAD 3003</td>
<td>Public Administration in American Society</td>
<td>3</td>
<td>(may not be repeated for credit)</td>
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<td></td>
<td>Effective administration of government agencies, nonprofit organizations and other civil institutions is necessary if American democracy is to thrive. Address 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).</td>
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</thead>
<tbody>
<tr>
<td>PAD 3905</td>
<td>Directed Study</td>
<td>1-12</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>PAD 4905</td>
<td>Directed Study</td>
<td>1-12</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>PAD 4949</td>
<td>Cooperative Education</td>
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<td>(may not be repeated for credit)</td>
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<td></td>
<td>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.</td>
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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 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 6684  Intermediate Contracting and Contract Administration
3 sh (may not be repeated for credit)

Government contracting and administration at the intermediate level. Intermediate level aspects of the federal acquisition process ranging from initiating the acquisition process through protests. Intermediate federal contract administration from initiating contract administration through claims.

PAD 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PAD 6946  Administration Capstone
3 sh (may not be repeated for credit)

Culminating academic endeavor of students who are nearing completion of their Master of Science in Administration (MSA) program with specializations in Public Administration, Leadership or Acquisitions and Contract Administration. The course involves content topics and an end of course action research project that provides students with the opportunity to explore a problem or issue of particular personal or professional interest and to address that problem or issue through focused study and applied research under the direction of a faculty member. The project should demonstrate students’ abilities to synthesize and apply the knowledge and skills acquired in his/her academic program to real-world issues and problems. This final project should affirm students’ 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 these specializations. Students will submit a Capstone Course Approval Form and once approved, be permitted to register for this course.

PAD 8905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
PAD 8980 Dissertation
1-6 sh (may be repeated for up to 18,000 sh of credit)
Major individual research in an area of significant public administration interest; designed specifically for candidates in the EDD Curriculum and Instruction program - Administrative Studies / Public Administration specialization. Reflects intensive Social Science / Public Administration research produced by the student with guidance from the major professor and doctoral committee members. Admission to candidacy and permission is required. Graded on a satisfactory/unsatisfactory basis only.

**PCB-Process Bio:Cell/Mole/Eco Courses**

**PCB 2905 Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**PCB 3063C Genetics**
4 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2011/L
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 3097 Introduction to Human Anatomy**
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND PCB 3097L*
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*
Co-requisite: 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 2010/L AND 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**
3 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**
1 sh (may not be repeated for credit)
Co-requisite: PCB 3253
Corresponding lab for Developmental Biology.

**PCB 3905 Directed Study**
1-12 sh (may 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**
3 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**
1 sh (may not be repeated for credit)
Co-requisite: PCB 4043
Corresponding lab for Ecology.
PCB 4048C  Coastal Marine Ecology
4 sh (may not be repeated for credit)
Prerequisite: CHM 2046/L AND PCB 4043

The study of nearshore coastal environments, particularly bays and estuaries emphasizing interactions among biotic communities, physical, geological and chemical processes. The influence of human activities on and management of these ecosystems is discussed. Offered concurrently with PCB 5445C; graduate students will be assigned additional work. Material and supply fees will be assessed for corresponding lab.

PCB 4098  Concepts in Human Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND PCB 4098L*

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 lab 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)
Co-requisite: PCB 4233L

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 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. Offered concurrently with PCB 5727; graduate students will be assigned additional work.

PCB 4723L  Comparative Animal Physiology Laboratory
1 sh (may not be repeated for 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 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, oxic, 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, 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 4364L; graduate students will be assigned additional work.

PCB 5344  Tropical Ecology/Op Wall
3 sh (may not be repeated for credit)
1-6 week course culminating in an expedition with Op Wall to study coral reefs, mangrove forests, as well as tropical dry, rain and cloud forests. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. A series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna and to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 4374; graduate students will be assigned additional work. Permission is required.

PCB 5445C  Coastal Marine Ecology
4 sh (may not be repeated for credit)
The study of nearshore coastal environments, particularly bays and estuaries emphasizing interactions among biotic communities, physical, geological and chemical processes. The influence of human activities on and management of these ecosystems is discussed. Offered concurrently with PCB 4048C; graduate students will be assigned additional work. Material and supply fees will be assessed for corresponding lab.

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 5527  Molecular Biology
3 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
1 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 of physiological processes employed by different groups of animals. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with PCB 4723; graduate students will be assigned additional work.

PCB 5727L  Comparative Animal Physiology Laboratory  
1 sh (may not be repeated for credit)
General and comparative animal physiology. Complex structures, phenomena, and concepts involved in regulation of a variety of physiological mechanisms. Material and Supply Fee will be assessed. Offered concurrently with PCB 4922; graduate students will be assigned additional work.

PCB 5905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

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 6971  Thesis  
1-6 sh (may be repeated for up to 12,000 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

* This course may be taken prior to or during the same term.

**PCO-Psychology of Counseling Courses**

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 3110  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)
Students must take (Either CLP 3144 or PPE 4003) or by permission of the instructor before enrolling in this course. 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)
Prerequisite: PCO 6216
Students must take PCO 6216 or by permission of the instructor before enrolling in this course. 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)
Prerequisite: CLP 5166
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)
Prerequisite: CLP 5166
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 exerential 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)
Prerequisite: CLP 5166 AND PCO 6206C AND PCO 6216
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 9.000 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 60th 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 will participate in indoor cycling group workouts. Students will exercise using various types of equipment.

PEM-Phys Ed Act:Obj Cent, Land Courses

PEM 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.

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)
Prerequisite: PEM 1121
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 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 3.000 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)

PEO-Phys Ed Act:Obj Cent, Land Courses

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.

PEO-Phys Ed Act:Water Snow Ice 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 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
PEP-Phys Ed Act: Perfo Cent Lan Courses

PEP 3505  Non-Traditional Sports
3 sh (may not be repeated for credit)
Designed for potential physical education teachers, sport administrators, teachers and fitness and conditioning specialists. 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.

PET-Physical Education Theory Courses

PET 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
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 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 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 4310C  Mechanics of Human Motion
4 sh (may not be repeated for credit)
Prerequisite: APK 3110/L
Anatomical, mechanical, analytical and functional aspects of human motor performance; emphasis upon analysis of joint actions and mechanical principles and their application to efficient movement. Anatomy and physiology are required. Material and supply fee will be assessed for integrated lab.
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 4710  Special Methods in Physical Education
3 sh (may not be repeated for credit)
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 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 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 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 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PET 7003  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 7516  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 7533  Behavioral Observation Methods in Physical Education and Health
3 sh (may not be repeated for credit)
Students will advance their understanding and application of naturalistic inquiry, systematic observation, and behavioral observation practices in physical education and health settings as used for research, evaluation, and supervisory purposes.

PET 7535  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. Students will advance their knowledge, understanding, and application of the process of planning and designing elementary, secondary, and higher education physical education and health programs.

PET 7708  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 7774  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, effective, and psycho motor domains.

* This course may be taken prior to or during the same term.

PGY-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 2801C  Digital Imaging
3 sh (may not be repeated for credit)
This course emphasizes the aesthetic, technical, and conceptual practices of image making using digital media. In the class, students will examine how to perceive, communicate and make digital images in visual culture. This class emphasizes an experimental and conceptual approach to digital image making. Students will be challenged to develop their own visual language and to create unique aesthetic and conceptual experiences to communicate with viewers. This class will consist of lectures, software demonstrations, digital camera demonstrations, studio lighting demonstrations, image making exercises, projects, and readings. Students are evaluated based on their contribution to class discussions, critiques, and their aesthetic, technical, and conceptual development in regards to their digital image making practices.

PGY 3420C  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 3500C  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 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 9.000 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.

PHC-Public Health Concen Courses

PHC 2082  Informatics and Your Health
3 sh (may not be repeated for credit)
Multi-disciplinary exploration of the nature of information - how it is represented, processed, shared, preserved, and protected in tools and applications directly linked to your health and the health of our planet. Identifies enduring principles; examines impacts on individuals and society; provides practice with a variety of digital technologies and data collection strategies; addresses interpreting results of and concerns in human subject research. This course helps students develop integral professional and technical skills, including presentation of ideas through written and verbal communication, within an informatics framework. Students will have the opportunity to focus on a particular technology company or issue as a mechanism for developing critical thinking and teamwork skills.
PHC 4101  Public Health
3 sh (may not be repeated for credit)
Course teaches basic terms and definitions of public health and the factors leading to disease causation as well as disease prevention. Students study programs and policies that affect healthcare in a positive manner and apply basic principles of scientific reasoning with the use of available data and information. Topics introduced serve as a basis for enhancing the participants’ ability to critically evaluate current trends in healthcare and develop programs and policies in an analytical manner. Permission is required. Credit may not be received in both PHC 4101 and PHC 4100.

PHC 4109  Diseases in Human Populations
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.

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. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. 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 sample 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  Biological 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>PHC 5351</td>
<td>Occupational Safety and Health in the Health Care Environment</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td></td>
<td>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 healthcare, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Offered concurrently with PHC 4363; graduate students will be assigned additional work.</td>
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<tr>
<td>PHC 5355</td>
<td>Fundamentals of Occupational Safety and Health</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 5356</td>
<td>Fundamentals of Industrial Hygiene</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td></td>
<td>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.</td>
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<tr>
<td>PHC 5410</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>Covers behavioral and social science contributions to science disciplines, including psychology, sociology, and anthropology, will be reviewed and integrated with public health objectives and outcomes. Using a biopsychosocial framework, the role of social, psychological, and behavioral factors in health and illness are emphasized.</td>
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<tr>
<td>PHC 5442</td>
<td>Global Health</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>The course will introduce students to the main concepts of the public health field and the critical links between global health and social and economic development. Students will get an overview of the determinants of health, and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will review specific topics related to the most important communicable and non-communicable diseases as well as issues related to food distribution, reproductive health and other global major health concerns with an important focus on low- and middle-income countries and on the health of the poor. We will also discuss cross-cutting global health issues such as poverty and equity, human rights and ethical issues in public health; globalization and health and complex emergencies.</td>
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<tr>
<td>PHC 5905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>PHC 6000</td>
<td>Epidemiology for Public Health Professionals</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 6005</td>
<td>Disease Transmission in the Urban Environment</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 6015</td>
<td>Epidemiological Study Design and Statistical Methods</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 6150</td>
<td>Public Health Policy</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 6196</td>
<td>Computer Applications in Public Health</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<td>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.</td>
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</table>
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 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 6.000 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.

PHH-Philosophy: History Courses

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)

PHI-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)

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. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement.

PHI 2603   Ethics in Contemporary Society
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. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement.

PHI 3120   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. Meets Gordon Rule Writing Requirement.

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 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, conversations with central topics in metaphysics; this course aims to provide just that. Offered Fall and Spring semester only. Meets Gordon Rule Writing Requirement.

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 3786  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 4000  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. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

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)

PHM-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, De Beauvoir and Nagel.

PHM 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHM 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHP-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)
PHY-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. Satisfies Florida Common Core Natural Sciences requirement.

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.

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. Satisfies Florida Common Core Natural Sciences requirement.

PHY 2048C  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. Satisfies Florida Common Core Natural Sciences requirement.

PHY 2048L  University Physics I Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048*
Co-requisite: PHY 2048
Selected experiments in mechanics, oscillatory motion, and heat. Satisfies Florida Common Core Natural Sciences requirement.

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. Satisfies UWF Breadth requirement in Natural Sciences.

PHY 2049C  University Physics II with Lab
6 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048C
University Physics II is the second of a two-semester sequence of physics topics chosen as an introduction to this science. This is a calculus-based physics course. The topics covered will be electricity and magnetism, basic electric circuits, electromagnetic waves, and optics. University Physics II is designated as a General Education course. The General Education 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 the requirement in Natural Sciences. The General Education learning outcomes for this course are Problem Solving and Quantitative Reasoning. Satisfies UWF Breadth requirement in Natural Sciences.

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.

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. Satisfies Florida Common Core Natural Sciences requirement.

PHY 2053L  General Physics I Laboratory
1 sh (may not be repeated for credit)
Selected experiments in mechanics, oscillatory motion, and heat.

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. Satisfies UWF Breadth requirement in Natural Sciences.

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.

PHY 2905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

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)
Prerequisite: PHY 2049/L
Selected experiments in modern physics and optics. Material and supply fee will be assessed. A minimum grade of a C or better is required for all prerequisite courses.
PHY 3107  Modern Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302 AND 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. A grade of C or better is required for all prerequisite courses.

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: PHY 2049

Geometrical, physical, and modern optics. Polarization, interference, diffraction, holography, and optical fibers. A grade of C or better is required for all prerequisites.

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: MAC 2313 AND MAP 2032 AND PHY 2049 AND PHZ 4113

Electrostatics, Gauss's Theorem, magnetic fields, Biot-Savart Law, electromagnetic induction, introduction to Maxwell's Equations, and electromagnetic waves. A grade of C or better is required for prerequisite courses.

PHY 4325  Electricity and Magnetism II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4323

Continuation of PHY 4323 Electricity & Magnetism I, 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. A grade of C or better in pre-requisite courses is required.

PHY 4445  Lasers and Applications
3 sh (may not be repeated for credit)
Prerequisite: PHY 3424 AND PHZ 4113

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. A grade of C or better is required for all prerequisite courses.

PHY 4513  Thermodynamics and Kinetic Theory
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND PHY 2048 AND PHZ 4113

Laws of thermodynamics, thermodynamic potentials, kinetic theory of gases, Maxwell-Boltzman distribution, introduction to Bose Einstein and Fermi-Dirac statistics. A grade of C or better is required for all prerequisite courses.

PHY 4604  Quantum Theory I
3 sh (may not be repeated for credit)
Prerequisite: PHY 3107 AND PHZ 4113

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. A minimum grade of a C or better is required for all prerequisite courses.

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 10.000 sh of credit)
Prerequisite:PHY 2049

Undergraduate experimental or theoretical research under the direction of physics faculty.

PHY 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.

PHZ-Physics (Continued) Courses

PHZ 3108L  Intermediate-Level Physics Problems
1 sh (may not be repeated for credit)
Prerequisite: PHY 3106

Practicum in the art of solving problems across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core. A grade of C or better is required for all prerequisite courses.

PHZ 4113 Mathematical Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND MAC 2313

Algebra of complex numbers, Taylor series, linear algebra, vector algebra and calculus, and curvilinear coordinates. A grade of C or better is required for prerequisite courses.

PHZ 4114 Mathematical Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302 AND PHZ 4113

Fourier series, special functions, boundary value problems, partial differential equations, series solutions, and integral transforms. A grade of C or better is required for prerequisite courses.

* This course may be taken prior to or during the same term.
PLA-Paralel/Legal As/Legal Adm Courses

PLA 2013 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. Credit may not be earned in both PLA 2057 and PLA 2013. Satisfies UWF Breadth requirement in Social Sciences.

PLA 3020 Law and Society
3 sh (may not be repeated for credit)
Exploration of how the legal system interacts with social issues, such as the death penalty, domestic violence, slavery, abortion, and lifestyle choice. Credit may not be earned in both PLA 3691 and PLA 3020.

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 3103 Legal Research and Writing
3 sh (may not be repeated for credit)
Prerequisite: PLA 2013
Introduces the student to the sources, tools and techniques of legal research and writing including, but not limited to, primary and secondary sources covering judicial, legislative and executive branches. Permission is required. Credit may not be earned in both PLA 3103 and PLA 4103.

PLA 3240 Alternative Dispute Resolution
3 sh (may not be repeated for credit)
Introduces students to different alternative dispute resolutions (ADR) methods as a means of peacefully communicating with another person regarding a conflict and working together to find a solution in an appropriate manner. Eight basic methods of ADR, and several hybrids, will be explained in detail. Presents ADR against the backdrop of traditional litigation, which offers a more formal, and generally more costly, method of resolving disputes. Asks students to evaluate disputes and disputants and to select the most appropriate method for resolving a matter.

PLA 3429 Contracts and Business Entities
3 sh (may not be repeated for credit)
Overview of contract law, and law related to business entities such as corporations, partnerships, and sole proprietorships.

PLA 3471 Employment Law
3 sh (may not be repeated for credit)
Designed for students interested in the subject of employment discrimination from many approaches: as a practitioner in the legal field, as an employer, as an advisor to employers, as an employee, or as an advisor to employees. The focus will be on the basic laws of employment discrimination, the means and methods of seeking the protections of those laws, and the means and methods of employers assuring compliance with the laws.

PLA 3583 Cyber Law
3 sh (may not be repeated for credit)
Legal aspects of the law related to the Internet, including intellectual property rights, online jurisdictional issues, privacy and the first amendment in an online world, domain name rights, and e-commerce.

PLA 3613 Property Law and Transactions
3 sh (may not be repeated for credit)
Covers contracts for the sale of land, forms, or real estate ownership, steps involved in a real estate transaction, drafting of leases, purchases, and sales agreements, drafting of mortgages and notes, drafting of deeds, preparing and executing a complete real estate closing and preparing a title search and real estate abstract.

PLA 3703 The Legal System and Ethics
3 sh (may not be repeated for credit)
Applications of legal studies. Students will explore options in legal studies, professional development, and legal ethics. Credit may not be received in both PLA 3703 and PLA 3700.

PLA 3805 Family Law
3 sh (may not be repeated for credit)
Law of family relations including marriage, divorce, support, property division, custody, paternity, adoption, and annulment. Credit may not be earned in PLA 3806 and either PLA 3806.

PLA 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: PLA 3103
PLA 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.000 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 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. Meets Gordon Rule Writing Requirement.

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 be repeated for up to 6.000 sh of 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 4843  Immigration Law
3 sh (may not be repeated for credit)
PLA 4885  Constitutional Law for the Legal Professional
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 12.000 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 not be repeated for credit)
Prerequisite: PLA 3103 AND PLA 3703 AND PLA 4204 AND PLA 4263
Individual field experience in law-related offices including private attorneys, public agencies, and alternative dispute resolution firms. Graded on a satisfactory/unsatisfactory basis only. The student intern works under the overall supervision of a licensed attorney at the internship placement site. Permission is required.

PLA 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

POR-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)

POS-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. Satisfies Florida Common Core Social Sciences requirement.

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.
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.

This course will study several major questions about the role of the media in society, and specifically in politics. Readings will address the media’s purpose in society as the fourth branch of government; ownership and regulation of the media; legal protections for free speech; and the process of news production. In addition, readings and class assignments will explore special topics related to the media. What is the history and future of the media in a changing technological environment? How are elections and public policy decisions impacted by the media? How does the media influence us individually? What are the effects of negativity in the media? How can one detect bias in the media, and how can one recover from its effects? Additionally, readings and assignments will explore the production of foreign affairs news coverage and its impact on voters.

This course is designed to introduce students of American politics to the practical side of campaigns and elections. The class will undertake an extensive examination of the local, state, and national elections to be held during the fall by focusing on candidates, parties, interest groups, and the media as well as some of the new influences in elections such as political consultants and pollsters. The focuses on the electoral process as well as the primary and general phases of American elections.

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 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.

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.

Political parties, nominations, campaigns, elections, voting behavior, political recruitment, party organization and parties as managers of government. Roles and functions of interest groups.

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.

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.
and communicate findings to an appropriate audience.

Presentation will require students to analyze the results of this design research. However, this course is designed to guide students through political science scholarship. Students will develop research designs to test theoretically-driven hypotheses using primary or secondary data. The research paper assignment and oral presentation will require students to analyze the results of this design and communicate findings to an appropriate audience.

POS 4602  The Founders' Constitution
3 sh (may not be repeated for credit)
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. This course is offered concurrently with POS 5637; graduate students will have additional work.

POS 4673  Jurisprudence
3 sh (may not be repeated for credit)
A survey of various approaches to theorizing about the Concept of Law. The Natural Law, Legal and Analytical Positivist, Sociological, Realist, and Critical Legal Studies approaches will be studied. In addition, concepts of Justice will be considered.

POS 4905  Directed Study
1-12 sh (may be repeated indefinitely 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 5355  Contemporary Political Philosophy
3 sh (may not be repeated for credit)
This course explores contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man. Reading Thomas More's Utopia, J. 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 sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POS 5637  The Founders' Constitution
3 sh (may not be repeated for credit)
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. This course is offered concurrently with POS 4602; graduate students will have additional work.

POS 5939  Special Topics
3 sh (may not be repeated for credit)
The topics for this course will vary based on faculty expertise and learning opportunities. However, this course is designed to guide students through political science scholarship. Students will develop research designs to test theoretically-driven hypotheses using primary or secondary data. The research paper assignment and oral presentation will require students to analyze the results of this design and communicate findings to an appropriate audience.

POS 6006  The Study of Politics
3 sh (may not be repeated for credit)
Introduces the graduate study of political science. It concerns "scope" more than "method," and the range is broad, focusing on what political scientists do--teach, research, advise, and serve. Concerns embrace every conceivable level--local, regional, national, cultural, global, planetary.

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 6704, Political Science Research Methods provides students with the knowledge and skills required to analyze and critique, as well as design, applied research in public policy and public affairs. The course introduces the student to the enterprise of academic research in these areas, provides the student with knowledge and understanding of the various philosophical and methodological approaches to applied research and allows the student to develop and hone analytical skills. Accepted social science research designs will be introduced and an analysis of threats to the validity and reliability of these different designs will be considered. Sampling theory and statistical analysis will be introduced.

POS 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
POS 6940  Internship
1-6 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.
POT-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 contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man. Reading Thomas More's Utopia, S. Lewis's 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 sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POT 5016  Seminar in Political Theory
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. Offered Fall semester only.

POT 5207  American Political Thought
3 sh (may not be repeated for credit)
Significant American political theorists and schools of thought; their influence on the political system. Offered concurrently with POT 4204; graduate students will be assigned additional work.

POT 5355  Contemporary Political Philosophy
3 sh (may not be repeated for credit)
This course explores contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man. Reading Thomas More's Utopia, S. Lewis's 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 sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POT 5602  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 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PPE-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)

PSB-Psychobiology Courses

PSB 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.
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. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

PSY 3860 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)
This course 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, professional communication, and ethical and professional issues will be discussed. Must earn a C or higher to pass the course.

PSY 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.000 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 4.000 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 4930 Capstone in Psychology: Special Topics
3 sh (may not be repeated for credit)
The objectives of the capstone courses will provide students an opportunity to: 1) study a target area in psychology in depth 2) integrate knowledge and skills across courses, and 3) prepare an effective pursuit strategy for a meaningful psychology-related career Student must earn a C or higher to pass the course.

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)

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 12.000 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 12.000 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 12.000 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 36.000 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 18.000 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.

* This course may be taken prior to or during the same term.

PUP-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)

**PUR-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 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.
RED 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**QMB-Quantitative Methods in Business Courses**

QMB 3820 Introduction to Quantitative Models for Business Decisions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2233 OR ISM 3011

Formulation and application of mathematical models in business decision making scenarios. Focuses on a system modeling view of resources, constraints and objectives. Credit can only be earned for one of these three courses: MAN 3540, MAN 3550 and ISM 3XX1.

QMB 6305 Quantitative Methods for Business
3 sh (may not be repeated for credit)

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.

**REA-Reading Courses**

REA 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

**RED-Reading Education Courses**

RED 3310 Literacy Instruction for the Intermediate Learner
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314

This course prepares the pre-service teacher for effective literacy instruction in the intermediate grades. Learning activities focus on research based instructional approaches that incorporate the major components of reading, including word study, guided reading, and guided writing. Additionally, students will examine standards based instruction that provides appropriate accommodations for students with special needs. This course meets the requirements for Florida Reading Endorsement Competency 2.

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

This course prepares the pre-service teacher in the areas of differentiated reading and language arts instruction based on appropriate assessment practices. A major component of this course is building capacity with regard to providing individualized instruction in the areas of reading, writing, speaking, and listening. This course meets the requirements for Competencies 3 and 4 of Florida’s Reading Endorsement.

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)

This course is designed to provide an exploration into the theory and practices of informal reading assessments appropriate for the K-12 classroom teacher. During this course, students will administer, analyze, and interpret a variety of informal reading assessments in their respective classrooms. Students will identify a struggling reader, develop a remedial, individualized plan based on the student’s reading needs, and provide immediate intensive instruction based on data from the informal assessments previously administered in the class. This course is required for students in the Reading Education M.Ed. program and for those seeking reading endorsement.

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 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

Course work with required clinical experience to develop competence in determining causes and degrees of reading disabilities and identifying appropriate corrective or remedial instruction to meet the specific needs of students.

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 Reading Practicum
3 sh (may not be repeated for credit)
Prerequisite: RED 6240

Provides practical experience in increasing the reading performance of K-12 students with the prescription and utilization of appropriate strategies and materials. Requires demonstration of knowledge in the prevention, identification and remediation of reading difficulties.

RED 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
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.

REE-Real Estate Courses
REE 4905   Directed Study
1-12 sh (may be repeated indefinitely for credit)

REL-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. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement.
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 Gordon Rule Writing Requirement. Meets Multicultural Requirement.
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. Meets Gordon Rule Writing Requirement.
REL 3241   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. Meets Gordon Rule Writing Requirement.
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 4.000 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 "customise" 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, DeWolf), 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)

RTV-Radio/Television Courses
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 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-reations. 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 3511  Electronic Field Production
3 sh (may not be repeated for credit)
Prerequisite: RTV 3533
Principles and techniques of basic electronic field production for video, film, CD-ROM, and the Internet. Credit may not be received in both RTV 3511, 3320 and RTV 3320C.

RTV 3533  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, 3533 and RTV 3200C.

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)

RTV 3942  Practicum: Television News
3 sh (may not be repeated 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 4332  Documentary Television Practicum
3 sh (may not be repeated for credit)
Prerequisite: (RTV 3511 OR RTV 3320) AND (RTV 3200 OR RTV 3533)
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)

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)
This course incorporates current research and best practices in science education to prepare prospective teachers to foster meaningful science learning in the elementary (K-6) classroom. In the course, prospective teachers reflect on and develop their competence in the three dimensions of science learning, and their understanding of the nature of science. They also explore subject-specific pedagogy with an emphasis on planning inquiry-based instruction that engages elementary learners in experiencing and explaining phenomena, and builds on their prior knowledge. Furthermore, the course develops prospective teachers' awareness of strategies to assess science learning, and promote equitable participation of underrepresented populations in science learning experiences. A material and supply fee is assessed for an elementary science materials kit.

SCE 4320  Teaching Science in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Theory and methods of teaching science in the middle and secondary schools; explores current research on approaches in teaching and learning science; examines the practice of science, disciplinary core ideas in specific science disciplines of choice (i.e. Biology, Earth/Space, Chemistry, Physics), and crosscutting themes in science; compares various models of teaching (i.e. direct instruction, inquiry, project-based learning); includes practices to effectively move student thinking toward meaningful understanding focusing on best practices in STEM disciplines.

SCE 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

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 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)
* This course may be taken prior to or during the same term.

**SDS-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 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)

**SLS-Student Life Skills Learn Courses**

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 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.

**SOP-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. Meets Multicultural Requirement.

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 2.000 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)
Students must take SOP 3004 before enrolling in this course.

SOP 6668 Organizational Change and Development
3 sh (may not be repeated for credit)
Prerequisite: SOP 6669
Organizational development: change agentry, role of self in O.D., change theory, feedback methodology, relationship building, team building and quality, Lab learning methodology.

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)

**SOW-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. Satisfies UWF Breadth requirement in Social Sciences.

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. Students will learn interview techniques, how to record sessions accurately and in formats required for opening, transferring, updating and closing a social work client record. Students will learn American Psychological Association writing guidelines. Meets Gordon Rule Writing Requirement.
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 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 Introductory 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.

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. Meets
Multicultural Requirement.

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
Introduction to scientific strategies used to evaluate social work
practice and theory. The different strategies covered range
from participant and observational techniques, to controlled
experimentation. Ethical/value dilemmas involved in social science
research are also covered.

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 reviewed 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 4941** Immersive Experiences in Social Work  
3 sh (may not be repeated for credit)  
This course offers students an opportunity to immerse themselves in intensive experiential learning though study abroad or study away. The course examines historical, cultural, social, economic, and political aspects of terra incognita, integrating key elements of the social work profession through the lens of social, political, and economic justice. A focus on the acquisition of 21st Century skills related to career development (e.g. global awareness, initiative and self-direction, flexibility and adaptability, social and cross-cultural skills, critical thinking and problem solving, etc.) will be emphasized. Offered concurrently with SOW 5942; graduate students will be assigned additional work. Meets Multicultural Requirement.

**SOW 5015** Human Behavior in the Social Environment I  
3 sh (may not be repeated for credit)  
This foundation year class presents a bio-psycho-socio-spiritual and ecosystems framework that introduces students to a macro, mezzo, and micro systems perspective. A major focus of the course is on the analysis of diversity within these systems as well as an examination of power and privilege. The person-in-environment framework provides students with an understanding of human adaptation and the various forces that support or impede well-being. Models for understanding human development are introduced. An overview of social functioning throughout the lifecycle within the context of the social environment is covered.

**SOW 5016** Human Behavior in the Social Environment II  
3 sh (may not be repeated for credit)  
This is the second course in the HBSE sequence. The course deals with Human Behavior in Organizations and Communities. The course familiarizes students with the intervention strategies of community organization. Emphasis is placed on the social worker’s role as change agent and models and strategies for community organizing. Content related to values and ethics of community organization in relation to the client, the organization, and the community is covered. Intervention plans are highlighted which focus on planned change efforts and containing strong evaluation plans are utilized in working with human service agencies serving vulnerable populations.

**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)  
This course will examine social work as a policy-based profession and how social welfare policy is a central concern to the social work profession. This course also addresses policy practice roles such as planner, administrator, policy analyst, and program evaluator. This course will review ways to improve human services delivery systems through the application of problem-solving, critical thinking, and other necessary skills.
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)

This is the first course in a two-course sequence which covers generalist social work practice. This course covers basic generalist practice skills in the beginning phase of the helping process with individuals and families. Basic communication and interviewing skills essential to the helping relationship are introduced and practiced. Students learn the tasks and skills required in the beginning phase of practice: preparation, engagement, first interviewing skills and case documentation. Students learn the process of collecting relevant social, psychological, cultural, economic, and biological data from both individuals and families, as well as the process of organizing and analyzing these data for purposes of problem formulation. Case management as a form of social work is examined, along with historical and contemporary perspectives on the case management process, with a focus on advocacy roles. Throughout the course, emphasis is placed on practice skills through the use of interactive exercises and role plays utilizing case examples representative of the client populations with which the students work.

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)

This is the second course in the Generalist Practice sequence. This course continues to build the generalist skills, of practice with individuals, families, and groups, with the addition of community practice concepts. In this course the skills and intervention roles relevant to the middle and end phases of interventions with individuals, families, groups, and communities will be covered in more detail. Throughout the course emphasis will be placed on the practice and application of skills by using interactive exercises and role plays using case examples form client populations with whom students work.

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  MSW 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.

SOW 5532  Foundation Year Field Instruction and Integrative Seminar
3 sh (may not be repeated for credit)

Prerequisite: SOW 5105 AND SOW 5305 AND SOW 5404 AND SOW 5757

Co-requisite: SOW 5106,SOW 5324

This course is designed to integrate the foundation curriculum course content and field education experience utilizing a generalist approach. Agency based casework experiences and seminar discussions provide an opportunity to gain professional and peer feedback regarding acquisition of generalist practice skills. Focus will include critical thinking skills regarding the application of social work knowledge to the solution of client problems. Issues related to social work values and ethics, diversity, social and economic justice, populations-at risk, HBSE, social welfare policy and services, practice, and research are examined within the context of the student’s field education experience.

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  MSW Human Diversity and Social Justice
3 sh (may not be repeated for credit)

This course examines the impact of social, economic, and political environments on diverse populations specifically race, gender, age, ethnicity, social class, sexual orientation, gender identity, religion, and physical and mental ability. This course integrates the key elements of the social work profession through the lens of social, political, and economic justice. It includes the history, and philosophical foundations of social welfare, community organization, and social action strategies and tactics. Included are effects of cultural and group differences, the results of oppression, economic systems, and social policies on social work professional practice.
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)  
*This course examines the current structure of social welfare programs in the United States, their historical evolution, and the role ideological, political, economic, and social forces have played in the development of the social welfare system and its present character focusing on social and economic injustice in the United States. Also discusses the impact of social welfare policies on clients, agencies, service delivery, and social work practice. Students are provided an overview of the historical development, philosophical orientation, basic values, principles and knowledge base, and practice of the profession. The course will examine critical social problems that impact societies with an emphasis on the quest for social justice at local, national and global levels. Various perspectives on social welfare, social work as a profession, and many of the core concepts of the profession will be introduced. Content will cover major concepts and perspectives to include issues in poverty, child welfare, criminal justice, health and mental health, values, ethics, and working with a diverse and vulnerable population of individuals and families, ethnicity, minorities, women, gays and lesbians, aging, and disabled people.*

SOW 5905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
*SOW 5942 Immersive Experiences in Social Work  
3 sh (may not be repeated for credit)  
*This course offers students an opportunity to immerse themselves in intensive experiential learning though study abroad or study away. The course examines historical, cultural, social, economic, and political aspects of terra incognita, integrating key elements of the social work profession through the lens of social, political, and economic justice. A focus on the acquisition of 21st Century skills related to career development (e.g. global awareness, initiative and self-direction, flexibility and adaptability, social and cross-cultural skills, critical thinking and problem solving, etc.) will be emphasized. Offered concurrently with SOW 4941; graduate students will be assigned additional work.*

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)  
*This course addresses patterns of human behavior and psychosocial functioning commonly conceptualized as psychopathology. The course 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 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)  
*Prerequisite: SOW 5404  
The second of two required courses in the social work practice in research sequence. This advanced curriculum course builds on the knowledge and skills acquired in the foundation research course. The focus of this course is on the advanced skills necessary to effectively evaluate practice. The course utilizes single subject design and program evaluation techniques that are grounded in the social sciences and social work literature. Particular attention will be paid to the ethical issues of conducting research with oppressed and vulnerable populations.*

SOW 6451 Social Work Practice in Child Welfare  
3 sh (may not be repeated for credit)  
*In-depth examination into the role of the social worker in the child welfare system with an emphasis on in-depth knowledge of the agency, its function, and its history and the various roles the social worker holds in the system. Students 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 6535  Advanced Year Field Instruction and Integrative Seminar I
3 sh (may not be repeated for credit)
Prerequisite: SOW 5532
Integrates theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. 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)
Prerequisite: SOW 6535
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. 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, in 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: Treatment of Individuals
3 sh (may not be repeated for credit)
This course builds on the knowledge base of generalist social work practice and expands and deepens that base. The course emphasizes advanced assessment of clients across the life span, trauma assessment, and beginning evaluation of practice skills. Treatment planning with individuals 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, this course expands and deepens that base by introducing an advanced clinical practice base of clinical-community social work. Major contemporary theories of psychotherapy will be introduced, including cognitive-behavioral, experiential, interpersonal, and integrative therapies. We will investigate clinical processes as they are informed by psychopathology and developmental issues across the life cycle, as well as institutionalized oppression, poverty, racism, sexism, heterosexism and other inequities.

SOW 6619  Clinical Practice II: Treatment of Families
3 sh (may not be repeated for credit)
Prerequisite: SOW 6618
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 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, Loss, and Life
3 sh (may not be repeated for credit)
Introduction to the current and historical perspectives of death, dying and bereavement. This course 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, as well as the experience of dying well. Special attention will be given to how other cultures and religions view death and ethical dilemmas related to death. Loss is a central and inescapable dimension of the human experience. How an individual learns to deal with loss from an early age shapes the adjustment that s/he is able to make to adverse life events throughout the life cycle and indeed determines to a large extent how satisfying and creative a life that person is able to live. This course will help the social work clinician explore and understand major theories of grief and loss, as well as treat clients of all ages who are dealing with a variety of losses. It will also assist the generalist practitioner in determining those situations in which an unresolved past experience of loss is contributing to poor adjustment in the present, as well as providing guidelines for helping the client grieve in a way that allows him or her to re-establish a sense of meaning, adapt to what is gone, and move on to live with increased vitality and joy.

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, Biopsychosocial-spiritual model and other evidenced based treatment approaches. Specific treatment interventions from models will be discussed throughout. Department Permission is required.

SOW 6846  Clinical Practice III: Treatment with Groups
3 sh (may not be repeated for credit)
Prerequisite: SOW 6618 AND SOW 6619
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.

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.

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. Satisfies UWF Breadth requirement in Humanities.

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 10.000 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 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 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 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)

SPM-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 3115 Organizational Management and Leadership in Sport
3 sh (may not be repeated for credit)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course. Co-requisite: SPM 3004
Organizational behavior, management, and leadership issues specific to the sport business environment. Students will gain knowledge of management and leadership best practices in sport business. Students will also learn how a variety of management and leadership practices impact sport organizations.

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 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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 4012 Sociology of Sport
3 sh (may not be repeated for credit)
Students are introduced to the fundamental concepts of sports and sociology and examine various social phenomena taking place relating to sports such as violence and sports in schools and colleges. It introduces students to an array of social theories that apply to analyzing some social issues related to sports such as race and ethnicity, gender, social class, politics, and religion. This course will generate the awareness for students to understand the importance of, and paying attention to, the social functions of sports played in today's society.

SPM 4023 Legal Issues in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
An introduction to the legal aspects of the sport industry, focusing on the legal issues involved in business practices in the sport industry. Students will gain a general understanding of the law, legal processes, and the role law plays in business practices in the sport industry. Special emphasis will be placed on understanding the laws governing sports-related businesses and issues such as contracts, torts, and employment law.

SPM 4104 Sport Law and Risk Management
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 4112 Introduction to Sport Economics
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 4115 Governance in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
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 4120 Management in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
Emphasizes the application of management principles and practices in sport businesses. Students will gain knowledge of management and leadership best practices in sport business. Students will also learn how a variety of management and leadership practices impact sport organizations.

SPM 4204 Strategic Approaches to Presentational Speaking
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
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.

SPM 4205 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPM 4303 Introduction to Contemporary Sport Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
An 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 4404 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 4405 Organizational Management and Leadership in Sport
3 sh (may not be repeated for credit)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course. Co-requisite: SPM 3004
Organizational behavior, management, and leadership issues specific to the sport business environment. Students will gain knowledge of management and leadership best practices in sport business. Students will also learn how a variety of management and leadership practices impact sport organizations.

SPM 4503 Sport 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 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 4603 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 4703 Sport Law and Risk Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004
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.
SPN 4955  Intensive Spanish Abroad
1-12 sh (may be repeated indefinitely for credit)

SPN 2905  Directed Study
3 sh (may not be repeated for credit)

SPN-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. This course is not available for native speakers.

SPN 1121C  Spanish II
4 sh (may not be repeated for credit)

Prerequisite: SPN 1120C

This is a continuation of SPN1120C, a proficiency-oriented course, emphasizing the mastery of the basic skills of the language. An integrated (multi-media) approach to develop proficiency in all the basic language skills: listening/understanding, speaking, reading, writing and cross-cultural awareness. Students will build on their ability to understand frequently used words in oral contexts, as well as understand and respond appropriately to simple phrases and questions. Emphasis is placed on practical vocabulary and accurate pronunciation. This course is not available to native speakers. Pre-requisite is SPN 1120C (minimum grade of C) or successful completion of a placement test.

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)

Prerequisite: SPN 1121C

The purpose of this course is to offer opportunities for students to develop their language skills and to prepare them for higher-level courses in Spanish. The course will emphasize intensive practice in reading, translation and conversation. For students who have previous experience in Spanish, but are not yet prepared for advanced work in the language. This course is not available for native speakers. It has a pre-requisite of SPN1121C (minimum grade of C) or successful completion of a placement test.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)

This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.

SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Prerequisite: SPN 1121C

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200. This course is not available for native speakers. SPN 1121C (minimum grade of C) or successful completion of placement test is required.
SSE 4113  Social Studies for Elementary Teachers
3 sh (may not be repeated for credit)

This course will provide students with instructional strategies and materials for teaching a contemporary program in social studies in the elementary school. Students will creatively interact with history, geography, civics and economics. Particular attention will be paid to citizenship education, multicultural understandings and 21st century models for teaching social studies.

SSE 4324  Teaching Social Studies in the Middle and Secondary Schools
3 sh (may not be repeated for credit)

This course will provide students with instructional strategies and materials for teaching a contemporary program in social studies in the secondary school. Students will creatively interact with history, geography, civics and economics. Particular attention will be paid to citizenship education, multicultural understandings and 21st century models for teaching social studies.

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)

* This course may be taken prior to or during the same term.

STA-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


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. Meets Gordon Rule Applied Mathematics Requirement.

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. Meets Gordon Rule Applied Mathematics Requirement.

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. Offered concurrently with MAP 5XX1 (Introduction to Mathematical Statistics I); graduate students will be assigned additional work. Meets Gordon Rule Applied Mathematics Requirement.

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. Meets Gordon Rule Applied Mathematics Requirement.

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. Meets Gordon Rule Applied Mathematics Requirement.

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 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 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 6912  Statistics Research 1
3 sh (may not be repeated for credit)

Prerequisite: STA 6912

This course gives students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor. Technical reports and oral presentations are expected of each student. Students must have completed 15 hours of graduate course work in the program and have maintained at least a 3.0 GPA. Students must also commit to both fall and spring sections of the course.

STA 6913  Statistics Research 2
3 sh (may not be repeated for credit)

Prerequisite: STA 6912

This course gives students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor. Technical reports and oral presentations are expected of each student.

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 8.000 sh of credit)

Graded on satisfactory / unsatisfactory basis only. Permission is required.

* This course may be taken prior to or during the same term.

**SYA-Sociological Analysis Courses**

SYA 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

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)
SYD-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)

SYG-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. Satisfies Florida Common Core Social Sciences requirement.

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. Satisfies UWF Breadth requirement in Social Sciences.

SYG 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 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.

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)

SYP-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)

SYO-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 3250  Sociology of Education
3 sh (may not be repeated for credit)
Prerequisite: SYG 2000
This course will examine the school, the social organization of schools and school systems, situated in society. It will explore the school in the context of and as a constructed entity in society, interdependent on other institutions, molded by social forces and social norms, and, as an effective vehicle for promoting multicultural awareness and for meeting the educational needs of the diverse populations. Sociologists who study education utilize various theories and empirical methodologies in order to understand the relationship between schools and society. Accordingly, this course will examine the importance of education as a social institution from a sociological perspective. The course will begin by discussing the history and goals of education, as well as the ways in which sociologists have sought to understand this institution. We will then examine important topics including educational inequality, the dynamics of race, class, and gender in education, standardized testing, school choice, and higher education. Meets Multicultural Requirement.

SYO 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 4905  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.
**TAX-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, earning, 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)

**THE-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. Satisfies Florida Common Core Humanities requirement.

**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. Satisfies UWF Breadth requirement in Humanities. Meets Gordon Rule Writing Requirement.

**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 9.000 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 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.
TPA-Transportation Logistics 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 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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: THE 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)  

TPP-Theatre Perf Perf Train Courses

TPP 1282  Voice and Movement for the Stage  
3 sh (may not be repeated for credit)  
Beginning course in the exploration of the sources of voice and movement and the process of developing individual expression and strength. Required of all theatre majors and directed primarily toward preparation for stage work.

TPP 2100  Acting for Non-majors  
3 sh (may not be repeated for credit)  
Introduction to the process of acting. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2110  Acting I  
3 sh (may not be repeated for credit)  
An introduction to the process of acting designed for students with some prior experience on stage. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2190  Rehearsal and Performance  
1 sh (may not be repeated for credit)  
Production involvement in any area of theatre performance. Permission is required. Material and Supply Fee will be assessed.

TPP 2250  Music Theatre Fundamentals  
2 sh (may not be repeated for credit)  
Co-requisite: TPP 2250L  
This course is designed to introduce students to the theories supporting music readiness. Students will learn and be able to demonstrate skills in sight-reading including rhythm, aural skills, and functional piano. All elements of this course will be tailored to be applicable to the student's study in musical theatre and will be practiced weekly during lab hours. Permission is required. Offered Fall semester only.

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 assign concepts on the piano. These will be directly applied to music they are preparing to perform.

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 8.000 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 3155  
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 4.000 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 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

TRA-Transportation Logistics Courses

TRA 3153  Strategic Transportation Management
3 sh (may not be repeated for credit)
Prerequisite: TPP 3155
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.

TRA 3234  Warehousing and Terminal Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202
Planning and managing the flow of materials, parts and finished goods from suppliers, through production and final distribution to customers. Domestic distribution and import/export intermodal terminal operations are examined to understand how decisions and performance pertaining to such operations influence service quality, total cost to the organization and total cost for the entire supply chain.

TRA 4155  Seminar in Supply Chain Logistics Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202 AND TRA 4202*
Seminar in Supply Chain Logistics Strategy provides active learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today’s supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Offered concurrently with TRA 5159; graduate students will be assigned additional work.

TRA 4202  Logistics Systems and Analytics
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202
Students will learn to make improved business logistics and supply chain management decisions through the practical application of multiple analytical techniques used by managers in the field. Emphasis is placed on supply chain network analysis and design, inventory analysis and decision making, equipment and resource management, information management systems for analyzing and executing logistics decisions, and process management improvements to reduce total logistics cost and improve logistics service. Offered concurrently with TRA 5206; graduate students will be assigned additional work.

TRA 5159  Seminar in Supply Chain Logistics Strategy
3 sh (may not be repeated for credit)
Prerequisite: TRA 5206*
Seminar in Supply Chain Logistics Strategy provides active-learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today’s supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, or TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with TRA 4155; students will be assigned additional work.

TRA 5206  Logistics Systems and Analytics
3 sh (may not be repeated for credit)
Prerequisite: TRA 5206*
Students will learn to make improved business logistics and supply chain management decisions through the practical application of multiple analytical techniques used by managers in the field. Emphasis is placed on supply chain network analysis and design, inventory analysis and decision making, equipment and resource management, information management systems for analyzing and executing logistics decisions, and process management improvements to reduce total logistics cost and improve logistics service. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, or TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with TRA 4202; graduate students will be assigned additional work.
This course may be taken prior to or during the same term.

TSL-Teach Eng as a Second Lang Courses

TSL 4080  ESOL Principles and Practices
3 sh (may not be repeated for credit)
The course provides an overview of information and skills concerning the education of students who are English Language Learners (ELL). The course focuses on cross-cultural understanding and methods of teaching English to speakers of other languages, as well as curriculum and materials to support such work. It provides an introduction to linguistics and builds capacity with regard to working with families of students learning English. Offered concurrently with TSL 5085 and graduate students will complete additional higher-level work.

TSL 4081  Teaching English to ESOL Students
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This is the second in a sequence of two courses designed to provide students with knowledge and skills related to the education of English Language Learners (ELLs). The course addresses cross-cultural communication and methods of Teaching English to Speakers of Other Languages (TESOL) with emphasis on second language acquisition theories, the role of applied linguistics in second language teaching and learning, and the assessment of ELL 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)
Prerequisite: TSL 4080
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.  

TSL 5440  Testing and Evaluation  
3 sh (may not be repeated for credit)  
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 4441; graduate students will be assigned additional work. Credit may not be received in both TSL 5440 and TSL 6440.  

TSL 5525  Cross Cultural Communication and Understanding  
3 sh (may not be repeated for credit)  
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 the special needs of linguistically and culturally diverse students. Offered concurrently with TSL 4520; graduate students will be assigned additional work.  

TSL 5905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

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URP-Urban Regional Planning Courses  
WST-Women's Studies Courses  
Zoo-Zoology Courses  

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 4254C  Marine Invertebrate Zoology  
4 sh (may not be repeated for credit)  
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 4304C  Marine Vertebrate Zoology  
4 sh (may not be repeated for credit)  
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 4454  Elasmobranch Biology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 2011/L  
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  
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 4472  Avian Science
3 sh (may not be repeated for credit)
Prerequisite: (BSC 2011/L AND STA 2023) OR MAC 1000
Avian Science is a course that describes and provides experience in the study of birds in order to answer questions about their basic ecology, with special emphasis on techniques for data collection and data management typically associated with research and monitoring of bird populations. Topics include species identification (visual and by song), movements and migration, habitat selection, foraging behavior, reproduction and nesting ecology, and demography (estimating survival, population size, nest success). Avian Science emphasizes S.T.E.M education, covering aspects of science, engineering, technology, and math important to many areas of ecology. Many of the techniques and concepts taught in this course, especially the sections on movements and spatial ecology, habitat selection, and demography, apply to fauna other than birds. Bird identification and survey experiences focus on species found on the UWF campus and on wintering waterfowl in local estuaries. The course consists of approximately 1/3 lectures and discussion, 1/3 laboratory exercise, and 1/3 field experiences. The class meets once per week for 2.75 hours. In addition, participation in one supervised day long (approximately 12-hrs) bird survey is required outside of normal class time, and may need to take place on a weekend (depending on survey schedule and weather). A one weekend field trip is required in this course, and students are expected to have the ability to hike and do field work. Graduate students will be assigned additional work.

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 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ZOO 5305C  Marine Vertebrate Zoology
4 sh (may not be repeated for credit)
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 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 5475  Avian Science
3 sh (may not be repeated for credit)
Avian Science is a course that describes and provides experience in the study of birds in order to answer questions about their basic ecology, with special emphasis on techniques for data collection and data management typically associated with research and monitoring of bird populations. Topics include species identification (visual and by song), movements and migration, habitat selection, foraging behavior, reproduction and nesting ecology, and demography (estimating survival, population size, nest success). Avian Science emphasizes S.T.E.M education, covering aspects of science, engineering, technology, and math important to many areas of ecology. Many of the techniques and concepts taught in this course, especially the sections on movements and spatial ecology, habitat selection, and demography, apply to fauna other than birds. Bird identification and survey experiences focus on species found on the UWF campus and on wintering waterfowl in local estuaries. The course consists of approximately 1/3 lectures and discussion, 1/3 laboratory exercise, and 1/3 field experiences. The class meets once per week for 2.75 hours. In addition, participation in one supervised day long (approximately 12-hrs) bird survey is required outside of normal class time, and may need to take place on a weekend (depending on survey schedule and weather). A one weekend field trip is required in this course, and students are expected to have the ability to hike and do field work. 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 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ZOO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
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