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About UWF

In this section:
- Accreditation (p. 3)
- Alma Mater (p. 3)
- Chambered Nautilus (p. 3)
- College Mission Statements (p. 4)
- University Vision, Mission, and Values (p. 4)

Accreditation

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

Normal inquiries about the University of West Florida, such as admission requirements, financial aid, and educational programs should be addressed directly to the institution and not to the Commission’s office. The Commission is to be contacted only if there is evidence that appears to support an institution’s significant non-compliance with a requirement or standard.

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

<table>
<thead>
<tr>
<th>UWF Colleges and Programs</th>
<th>Accrediting Agency</th>
<th>Level of Degree</th>
</tr>
</thead>
<tbody>
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<td>Athletic Training</td>
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<td>Engineering Accreditation Commission of ABET, Inc.</td>
<td>B.S.E.E.</td>
</tr>
<tr>
<td>Music</td>
<td>National Association of Schools of Music (NASM)</td>
<td>B.M. B.M.E.</td>
</tr>
</tbody>
</table>

Nursing: Commission on Collegiate Nursing Education (CCNE)

Psychology: Masters in Psychology Accreditation Council (MPAC)

Public Health: Council on Education for Public Health (CEPH)

Social Work: Council on Social Work Education (CSWE)

The UWF School of Education is accredited at the National, Regional and State levels. At the National level, the School of Education is accredited by the Council for the Accreditation of Educator Preparation (CAEP) and recognized for producing caring, competent, and highly qualified teachers. At the state level, all teacher preparation programs have received approval by the Florida Department of Education (FLDOE).

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

Alma Mater

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

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

Chambered Nautilus

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

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

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

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

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

Thus, a major emphasis in all professional programs is:

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

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,[1] 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.

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

Strategic Directions and UWF Priorities

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

UWF Priority 1.1: Foster student learning and development to include the knowledge, skills, and dispositions that optimize students’ prospects for personal and professional success.
UWF Priority 1.2. Facilitate students' access to and choice of the University of West Florida to meet their higher education needs.

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

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

UWF Priority 2.1. Respond to the changing needs of the region, state, and nation by investing strategically to support innovative instruction and high-quality, relevant, and distinctive academic and research programs.

UWF Priority 2.2. Recruit, support, retain, and recognize dedicated, high-quality faculty who advance the mission, vision, and values of the University.

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

### Strategic Direction 3: Valued Partnerships: Community Engagement and Service

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

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

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

### Strategic Direction 4: Sustainable Institutional Excellence

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

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

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

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

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

Academic calendars can be viewed by clicking here (http://uwf.edu/registrar/calendar.cfm).
Campuses

In this section:

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

In this section:
• Governance and Administration (p. 8)
• Faculty (p. 8)

Governance and Administration

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

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

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

Faculty

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

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

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

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

Persons with a disability requiring reasonable accommodation should contact the Student Disability Resource Center in Building 19, at least five working days in advance to make appropriate arrangements. Persons with hearing or speech impairments should use the Florida Dual Party Relay System at 1-800-955-8770 (voice) or 1.800.955.8771 (TTY).
Graduate Admissions

In this section:
- General Information (p. 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 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 before the end of the second week of class of the initial academic semester may result in the cancellation of admission.

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 uwf.edu/studentaffairs/.

Applicant Conduct

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

Request for Admission for a Later Semester

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

Required Documents

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/apply_online_now.html. 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, drawn on 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 preferably should be that of an officer of the institution attended. All academic records that are not in English must be accompanied by certified English translations.

Test Scores

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

**Departmental Requirements**

Some departments have additional admission requirements such as auditions, portfolios, goal statements, letters of recommendation, 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>
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<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>October 1</td>
</tr>
<tr>
<td>Summer</td>
<td>March 1</td>
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</tbody>
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Because some departments have earlier deadlines, applicants should contact 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. In addition, students must apply directly to the master’s program. Students who are a part of the ABM program cannot be provisionally or conditionally admitted into the graduate program; they must be fully admitted into the graduate 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 to the Graduate School including:
  - The graduate admission application (or express admission application)
  - The application processing fee (unless submitting the express admission application)
  - Official copy of all non-UWF transcripts
  - Acceptable graduate admission test score

**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 departmental admission requirements submission. Admission to the master’s program is valid only for the semester indicated on the express admission application.

**Criteria for Express Admission**

- Applicant must be nominated by the chairperson of the proposed master’s program and be approved by the respective college dean.
- Applicant must be a candidate for graduation from UWF.
- Applicant must be an undergraduate student within the same department as the proposed master’s program.
- Applicant must maintain continuous enrollment at UWF which means applicant cannot wait a semester after graduation to enroll in the master’s program, except for the summer semester (e.g., an applicant graduating in the spring semester may opt to start his/her master’s program in the summer or fall semester of the same year of graduation; a fall graduate must attend the following spring semester; and a summer graduate must attend the following fall semester).
Applicant must meet published UWF graduate admission criteria.

Admission of a UWF undergraduate is conditional 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 (https://nextcatalog.uwf.edu/graduate/admissions/internationaladmissions/#englishproficiencytest) to be considered for non-degree seeking status. See the Non-Degree Seeking Status (https://nextcatalog.uwf.edu/graduate/academicpolicies/general/#non-degreeseekingstatus) section of the catalog for more information.

Admission Policies

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

Requirements for Regular Admission to a Master’s Program

Each applicant shall be required to meet minimum University requirements:

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

Departments may establish standards that exceed these university requirements or require additional application materials. Departments may accept an earned graduate degree from an 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. Test scores must be no more than five years old.
- Other requirements as specified by each specialization for the degree.
- Approval by the department offering the specialization to which the applicant is applying.

Requirements for regular admission to a Doctoral Program

Each applicant shall be required to meet minimum University requirements:

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

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

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

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

Provisional Admission

With approval from the department, students who do not have all application materials available at the time of admission may be granted provisional admission by the Graduate School. Provisional admission is appropriate for circumstances such as when the undergraduate institution has not posted the awarding of the baccalaureate 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 criteria for regular admission may be admitted by a department on a conditional basis. Also, students who have graduated from a recognized, although non-accredited, institution may be admitted on a conditional basis. Students admitted on a conditional basis are permitted to register for up to 12 semester hours, identified by the department as appropriate to the degree, and must earn at least a grade of “B” on each of those courses or risk removal of their status to pursue graduate study. Admission on a conditional basis should not be routine.

International Graduate Admission

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

International Student Office (ISO)

The International Student Office provides immigration assistance to all international students, scholars, and employees at the University of West Florida. 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 state agencies

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

The Office of Diversity and International Education and Programs is located in Building 71. Please see additional information for international students and available services at uwf.edu/internationaloffice.

Academic Records

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

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

International Education Evaluators (IEE)
P.O. Box 545863
Surfside, FL 33154
Ph: (305) 503-9063
Fax: (305) 993-5550
www.iee-usa.com (http://www.iee-usa.com)
info@iee-usa.com

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

World Education Services, Inc.
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
Ph: (212) 966-6311
Fax: (212) 739-6120
www.wes.org (http://www.wes.org)

English Proficiency Test

If the international applicant’s native language is not English or the applicant is from a country in which the primary language is not English, he or she must take one of the following tests before consideration of admission. English proficiency test scores are considered official only when they are sent directly to the Graduate
School from the testing agency. Not all exams are available outside the U.S. and most are offered on a fixed schedule. Contact the testing agencies directly for scheduling information.

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

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

Paper-based TOEFL: 550
Listening/Comprehension Sub Score: 53
Internet-based TOEFL: 79/80
Listening Sub Score: 19
IELTS: 6.5
Listening/Comprehension Sub Score: 7
MELAB: 78

International students expecting to receive appointments as teaching assistants also are required to pass a test of spoken English.

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

Exemptions from proof of English proficiency

- UWF Intensive English Program (IEP) students who successfully complete the advanced level with an average of B+ (88) and score 78 or higher on the IEP exit test (MELICET) are eligible for admission to the University of West Florida if they meet all other requirements of the University.
- International students with a bachelor’s degree from a U.S. institution or 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 or DS-2019), 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 or DS-2019. 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 or DS-2019 is issued.

The "Confidential Financial Statement (http://uwf.edu/internationaloffice/pdf/Confidential%20Financial%20Statement.pdf)" form must be completed, signed by the student, and verified by the student’s or sponsor’s bank or financial institution with a statement of deposit. Before completing the "Confidential Financial Statement," the applicant should review the estimate of institutional costs and living expenses. 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, Building 71, 11000 University Parkway, University of West Florida, Pensacola, Florida, 32514, United States.

Health Form/Health Insurance

Applicants must submit a "Medical History Form (http://uwf.edu/internationaloffice/pdf/medicalHistory.pdf)" completed by the applicant. All students born after December 31, 1956 must present documented proof of immunity to Measles (Rubella) and German Measles (Rubella). Florida law also requires that students provide proof of immunization for meningitis and hepatitis B, or sign a waiver (http://uwf.edu/internationaloffice/pdf/meningitisHepatitisForm.pdf) indicating their informed decision not to be vaccinated. Any document submitted in a language other than English must be accompanied by a translation.

International students are required to show 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 must meet a number of requirements as listed on the "Health Insurance Compliance Form (http://uwf.edu/internationaloffice/pdf/HiComplianceForm.pdf)", including that the insurance proceeds are payable in U.S. currency. Insurance may be obtained at the University before registration.

Deadlines for Applications and Supporting Documents

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

Notice of Admission

If a student’s application for admission to UWF is approved, an official notice 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 notice 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 or DS-2019 from the International Student Advisor (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.

Passports and Visas

Students meeting all admission requirements of the University will be mailed a “Certificate of Eligibility” by the International Student Advisor. Students possessing a valid Form I-20 or DS-2019 will be considered for a student visa (F-1 or J-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 traveler’s checks. Local banks provide exchange services, but this procedure can be lengthy and expensive. International wire transfer service (http://uwf.edu/internationaloffice/pdf/Internation%20Wire%20Transfer%20information.pdf) to UWF is also available.

International Student Advisor

The International Student Advisor 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. The International Student Advisor may be reached at 850-474-2479.

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 current Academic Calendar (https://nextcatalog.uwf.edu/academiccalendar). The “Application for Readmission” does NOT include an application processing fee. Readmitted students will have their official catalog year automatically updated for the new semester of entry.

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 program.

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 Ed.D. Program

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

Appeal of Admission Denial

Denial of Admission to Graduate Programs

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

Once received, the appeal letter will be forwarded to the appropriate College Dean. The 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 student by the Graduate School within 5 business days of the date of the receipt of committee’s decision. This appeal decision is final.

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

Apply for Financial Aid
Refer to information on Financial Aid (p. 18).

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

Apply for Military and Veterans Benefits
Refer to information on Military and Veterans Benefits (p. 20).

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

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

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

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

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

4. Exceptions: Student may apply for an exception to the immunization requirement for Measles/Mumps and Rubella if they meet one of the following criteria and submit the appropriate documentation.
   a. Medical Basis - The student must provide a letter from a healthcare provider, signed on official medical stationery, stating the medical reason(s) why the student is not able to receive the Measles/Mumps and/or Rubella vaccine(s), and indicating if this is a temporary or permanent condition.
   b. Religious Basis - The student (or the student’s parent/ guardian if under 18 years old) must provide a letter stating the student’s religious beliefs do not permit him/her to receive vaccinations.

   c. Active Duty Military - Active duty military personnel may complete a Measles/Mumps and Rubella waiver form if documentation of immunizations is unavailable at the time of registration. A copy of the individual’s military ID is required with the waiver.
   d. On-Line Students - Students who are enrolled in on-line courses only and who will not be physically present in any UWF campus may complete a Measles/Mumps and Rubella waiver form. Should such students seek to register for a face-to-face course, they must comply with Section IA, above.

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

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

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

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

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

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

**MyUWF**

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

**Register for Classes**

Refer to information on Registration Policies and Procedures (p. 37). A Navigation Guide (http://uwf.edu/registrar/Navigationguide.pdf) to registration is also housed on the Office of the Registrar website.

**Obtain Nautilus Card**

All Pensacola campus students are required to purchase a Nautilus Card. Refer to information on Tuition and Fees (p. 23).

**Obtain Parking Permit**

Parking a vehicle on campus requires a parking permit which may be purchased at the Cashier’s Office, Building 20, or online at uwf.edu/parking.

**Confirm Residency for Tuition Purposes**

Refer to information on Residency (p. 27).

**Pay Tuition and Fees**

Refer to information on Tuition and Fees (p. 23).

**Review Student Rights and Responsibilities**

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

**Student Code of Conduct**

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

**Grievance**

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

**Prohibition of Harassment**

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

**Use of Instructional Space and Resources**

University facilities and equipment are intended primarily for the use of the faculty and students currently enrolled in courses of instruction. Students who have completed registration, including the payment of fees for the current semester, and whose names appear on the final class rolls, are authorized to attend classes and to use University instructional areas, facilities, equipment, and designated services. Students, including those continuing work on theses and dissertations, who are not enrolled for the current semester, are not authorized to use instructional space and resources. Students may not attend classes, including use of instructional space, facilities, designated library services, and equipment, for which they have not paid fees or from which they have withdrawn.
Financial Aid

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

Applying for Financial Aid

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

- Complete the "Free Application for Federal Student Aid (FAFSA)," available online at fafsa.gov (http://www.fafsa.gov). The results, called a Student Aid Report (SAR), will be electronically transmitted to the University of West Florida when the student enters UWF's school code "003955" on the FAFSA.
- Submit an application for admission to UWF. No financial aid will be awarded until the applicant has been admitted to UWF.

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

2013-2014 Estimated Full-Time Graduate Student Budget

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

Florida Resident

<table>
<thead>
<tr>
<th>Student</th>
<th>Tuition</th>
<th>Books/Supplies</th>
<th>Room/Board</th>
<th>Transpor Personal Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commuter</td>
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<td>$1,200</td>
<td>$3,614</td>
<td>$1,800 $2,300 $15,736</td>
</tr>
<tr>
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<tr>
<td>Off-Campus</td>
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<td>$1,200</td>
<td>$9,580</td>
<td>$1,800 $2,600 $22,002</td>
</tr>
</tbody>
</table>

Non-Florida Resident

<table>
<thead>
<tr>
<th>Student</th>
<th>Tuition</th>
<th>Books/Supplies</th>
<th>Room/Board</th>
<th>Transpor Personal Total</th>
</tr>
</thead>
<tbody>
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<td>$9,580</td>
<td>$1,100 $2,600 $33,182</td>
</tr>
<tr>
<td>Off-Campus</td>
<td>$18,702</td>
<td>$1,200</td>
<td>$9,580</td>
<td>$1,800 $2,600 $33,882</td>
</tr>
</tbody>
</table>

Commuter - residing with parents, relatives, or friends without the responsibility of rent or mortgage.

Graduate tuition amount is based on 9 credit hours per semester and 18 credit hours per academic year (an average course load).

Satisfactory Progress Requirements

Financial aid recipients must comply with UWF’s satisfactory academic progress (SAP) requirement for GPA, Completion Ratio (CR), and Maximum Time Limit (MTL). The complete policy is available on the financial aid website. Financial aid eligibility is checked at the time a student is awarded and at the end of every semester when grades are posted. Minimum requirements are:

Minimum Cumulative UWF GPA

Master’s, Specialist, and Doctorate: 3.0 at all times

Minimum Cumulative Completion Ratio

Satisfactory completion means that a student must complete at least 75% of the courses in which they enroll with the following grades: A, B, C, D, and S. Unacceptable grades include F, N, U, I (incomplete), W, WF, WR, TR, V (extended incomplete) and X (audit). Transfer hours from previous institutions and repeat coursework are included in the completion ratio.

Maximum Time Limit

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

Satisfactory Progress Appeals

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

Reinstatement Policy

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

Grants

Limited institutional funds are available to graduate students working on a first masters degree who demonstrate financial need. Repayment is not required. Grants range in value up to $2,000 per year.

Loans

Unsubsidized Federal Direct Loan

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

Federal Grad PLUS Loan

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

**Federal Perkins Loan**

These are need-based, long-term, 5% interest loans awarded to a limited number of students. Loans up to $4000 per academic year (fall and spring) are awarded to students enrolled at least half-time (6 semester hours) and working on a first degree. Repayment begins nine months after the student graduates or ceases at least half-time enrollment.

**Scholarships**

**John C. Pace, Jr. Graduate Scholarship**

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

**Merit Graduate Scholarship**

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

**Student Employment**

**On-Campus Student Employment (OPS)**

University departments and offices employ students under the OPS program. The Office of Human Resources oversees and posts student employment job opportunities on-campus. Visit the Student Employment site at jobs.uwf.edu, select “Student”. For more information contact Human Resources at (850) 474-2694.

**Off-Campus Part-Time Employment**

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

Military Personnel

The University of West Florida recognizes that many active duty military personnel face formidable barriers in the pursuit of a college degree. As part of the University’s continuing commitment to educational opportunities for military personnel, in the fall of 2011, UWF opened a center dedicated to supporting all military and veteran-affiliated students, including spouses and dependents. This center is the Military and Veteran’s Resource Center (MVRC) (http://uwf.edu/mvrc) located in building 38 room 147. The primary goal of the MVRC is helping military and veteran students successfully make the transition from the military environment to campus life. Transition coaches are available to assist students with GI Bill benefits, the university process, support service, counseling & tutoring, etc. A computer center is housed within the MVRC for use by veterans on coursework. Contact the MVRC at mvrc@uwf.edu or 850-474-2550.

Many departments have agreed to offer degrees through a system tailored to the specific needs of active duty military personnel. Previous college credit, work experience, service schools, and other forms of nonacademic experiences will be considered for college credits. For further information, contact the Graduate School (http://uwf.edu/graduate).

Servicemembers Opportunity Colleges

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

Veterans’ Benefits

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

Yellow Ribbon

The University of West Florida is an approved participating Yellow Ribbon Institution for the 2013-2014 catalog year. The Yellow Ribbon program is designed to help non-Florida residents cover the cost of their education that exceeds the in-state tuition and fees. It is only available to those individuals eligible for the maximum benefit rate (100%) of the Post 9/11 GI Bill (Chapter 33). It will be granted to the first 250 qualified students on a first-come, first-served basis.

Educational Objective

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

Tuition Deferment

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

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

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

<table>
<thead>
<tr>
<th>Semester (Year)</th>
<th>A Term</th>
<th>B Term</th>
<th>C Term</th>
<th>D Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Nov 25</td>
<td>Sep 25</td>
<td>Nov 15</td>
<td></td>
</tr>
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<td>Spring</td>
<td>Apr 7</td>
<td>Feb 5</td>
<td>Apr 2</td>
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<tr>
<td>Summer</td>
<td>Jun 11</td>
<td>Jun 11</td>
<td>Jul 25</td>
<td>Jul 11</td>
</tr>
</tbody>
</table>

Tuition and Fees must be paid by the last day of a semester, VA deferments DO NOT extend beyond the posted semester dates.

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

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

**Academic Progress**

University academic standing is discussed in the Academic Policies section (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 US mail and/or via email (UWF email account) when placed on VA Academic Probation, Suspension, and/or Termination.

**VA Academic Probation**

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

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

**VA Academic Suspension**

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

- The student must enroll in the MVRC mentoring program and follow the prescribed plan provided by the MVRC mentor.
- The student must obtain written counseling from his or her academic counselor and provide that written documentation to the MVRC.

**VA Termination**

A student’s VA benefits will be terminated if the student’s cumulative GPA remains less than a 3.0 for three consecutive semesters.

The MVRC will notify the DVA of unsatisfactory progress and educational benefits will be terminated.

**Advance Payment**

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

**Reporting Requirements**

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

**Class Registration**

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

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

**Changes to Schedule**

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

**Class Attendance**

Routine class attendance is required for those receiving DVA benefits. It is the student’s responsibility to inform the instructor(s) of absence from class(es) prior to, or as soon as possible after, the absence. Students must check with their respective instructor(s) regarding the attendance policy for each class. Students who are unable to attend class(es) for an extended period of time should notify the instructor(s) and the UWF MVRC. If a student receiving DVA benefits is found in violation of the policy, the DVA will be notified and benefits may be reduced accordingly.

**Change of Major**

The DVA must be notified when a student changes a major. These changes may be approved if there is minimal loss of credit hours.

**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 higher grade; this includes courses transferred from other colleges;
- 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.

Off-Term Courses

Off-term courses are those beginning and/or ending on dates other than the regular semester dates. These are referred to as B, C, D, or E term courses. Students should be aware that the DVA review is made on a term-by-term basis and not by semester. Taking B, C, D, or E term courses may affect the student’s training rate for pay purposes and eligibility for break pay. Since this varies by benefit chapter, students should contact the MVRC to determine their training time and qualifications for full benefits.
Tuition and Fees

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

2013-2014 Tuition and Fees

Refer to Tuition_and_Fees_20132014.pdf for the 2013-2014 academic year tuition and fees information.

Payment of Fees

Fees may be paid by any of the following methods:

- Walk-in payments Monday-Friday on the main campus at the
  University Cashiers Office, Building 20 East, 8:15 a.m. to 4:45 p.m.
- Drop-box depository located at Building 20 East on the main
  campus.
- By mail. All mail-in payments must be postmarked no later than
  midnight of the fee payment deadline. Mail-in fee payments
  postmarked after midnight or lacking a postmark and received
  after the fee payment deadline will result in the assessment of
  a $100 late payment fee.
- Tuition, fees, and other charges may be paid by Visa, MasterCard
  or American Express credit cards. Payments by credit card may be
  made in person at the Cashiers Office on the main campus.
- Payments by credit card only may be made on the Fort Walton
  Beach campus at Building 1, Room 115, Monday-Thursday, 8:30
  a.m. to 5:30 p.m. and Friday 8:30 a.m. to 4:00 p.m.
- Internet fee payment option. Use a Visa, MasterCard, or American
  Express to pay tuition, housing, parking fines, library debts,
  childcare, and other miscellaneous fees over the Internet. First,
  access your MyUWF (https://my.uwf.edu) account, select the
  Financial Resources (for students) folder and then select "Credit
  Card Payment/Nautilus Card Deposit". A $15 convenience fee
  will be assessed to online payments. Contact the Cashiers Office
  at (850) 474-3110 for additional information.

Students paying fees by mail or by drop-box depository must include
their student number with checks and 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. 6), viewing Account Balance on MyUWF
(https://my.uwf.edu), and announcements printed in Student News
or disseminated through other media from time to time. If necessary,
students should inform their parents or other interested parties of the
deadline dates and the necessity for meeting them.

Fees for courses remaining on the student's schedule at the close
of the drop/add period must be paid by the fee payment deadline.
Authorized deferment status may be granted under certain conditions.
Authorized deferment status must be granted and processed by the
University Cashier during the regular fee payment period. 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 deadline may result in either cancellation of the student's
registration or the assessment of a $100 late payment 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.

Fee Payment: Term E Courses

Fees for special courses (courses not offered in terms A, B, C, or
D) are due by the fee payment deadline determined for the course.
View Account Balance on MyUWF (https://my.uwf.edu) or contact
the Office of the Registrar for specific due dates. Fees paid by mail
must be postmarked by midnight of the fee payment deadline. Mail-
in fee payments postmarked after midnight or lacking a postmark and
received after the fee payment deadline will result in the assessment of
a $100 late payment fee.

Financial Aid Delivery

Financial aid awards that are complete prior to the beginning of
each semester and available for disbursement, including loans and
scholarships, are processed by Student Accounts. Tuition, fees,
housing, meal plans and any other outstanding charges are deducted
from the financial aid proceeds and the remaining funds are sent
to Higher One (UWF's contracted refund management partner) for
disbursement via the method chosen by the student. It is the student's
responsibility to ensure that all 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 deadline to avoid assessment of
a $100 late payment fee. Fees postmarked by midnight on the due date
will be processed without assessment of late charges.

Federal financial aid (Pell, SEOG, Subsidized, Unsubsidized, Plus and
Perkins Loans) can only be used to pay for tuition and fees, housing,
meal plans, university ID card, and the bookstore deferment. All other
charges must be paid prior to federal financial aid being applied to the
student's account.

The netting of financial aid awards begins after the drop/add period.
Late awards of financial aid are processed in the same manner
throughout each academic term. All excess financial aid will be sent to
Higher One for disbursement. All degree seeking students will receive
an inactive UWF Debit Card at the current address listed on MyUWF
(https://my.uwf.edu). It is the responsibility of each student to keep
their current address updated with the Office of the Registrar. Address
changes can be made in person or over the web.
UWF Debit Card—DO NOT DISCARD

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

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

Note: The UWF Debit Card only becomes active if option 1 is chosen, the Higher One checking account/easy refund option. Students who choose the ACH option and plan to subsequently transfer funds to a foreign financial institution must contact the Student Accounts Office.

Financial Aid Status

Students are able to view their grades, schedules, holds, and financial aid information on MyUWF (https://my.uwf.edu).

Tuition Loan Program (TLP)

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

Contracts and Fees Paid by Another Agency

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

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

Delinquent Balances

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

Tuition Waivers

Students who are registering for courses which will be partially or fully paid by a tuition waiver must submit the authorization form to the appropriate office during the registration period. Students must confirm the tuition waiver status with the Cashiers Office during the designated fee payment period. Failure to meet these requirements will result in the assessment of a $100 late payment fee.

Florida National Guard

Certain members of the active duty Florida National Guard may be exempt from the payment of one-half of the cost of tuition and fees for courses on a space-available basis only. Students using this waiver may not register for courses subject to the waiver until the last day of registration. Certain members of the Florida National Guard may qualify for that portion of fees not otherwise waived to be paid directly by the Florida Department of Military Affairs when authorized by that agency. An approved authorization form must be presented to the Cashiers Office on the main campus by the close of the drop/add period. Authorizations presented after that day will be subject to the assessment of a $100 late payment fee.

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 or the academic department for further information.

Senior Citizens—Florida Residents

Individuals who are 60 years old and who meet Florida residency requirements may enroll on a space available basis without payment of the application and registration fee. Contact the Office of the Registrar for more information.

Special Risk Dependent

Dependents of special risk members as defined in Sections 112.190 and 112.191, Florida Statutes (law enforcement officers and fire fighters), killed in the line of duty are eligible for waiver of tuition and fees under certain circumstances. Contact Student Financial Services regarding eligibility for these waivers.

State Employee Six-hours Free Course Benefit

State Employees are eligible for six hours of tuition free courses per semester. Certain portions of course fees are not covered by the waiver and must be paid by the fee payment deadline to avoid the assessment of a $100 late payment fee or cancellation of registration. Refer to State Employees (p. 109) in the Registration Policies and Procedures section of this Catalog for detailed procedures and policies.

UWF Employee Tuition Waiver Program

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

**Late Registration and Late Payment Fees**

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

**Deferred Payments**

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

**Veterans Deferments**

- Deferral eligibility is granted to students receiving veterans’ education benefits from federal assistance programs if aid is delayed in transmission to the student through circumstances beyond the student’s control.
- Veterans and other eligible students receiving veterans’ education benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic 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.

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

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

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

**Third Party Billings**

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

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

**Refund of Fees**

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

Full refunds of the per credit hour fee 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 of course(s) dropped during the drop/add period.

After the drop/add period a refund of 25 percent of the per credit hour fee will be made if withdrawal from all courses is completed prior to the published deadline in the Academic Calendar (p. 6). Contact the Office of the Registrar for specific withdrawal deadlines for E term courses. Withdrawals are processed in the Office of the Registrar.

**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 from all courses before completing 60 percent of the semester are not eligible for 100 percent of their federal financial aid.

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

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

Official Withdraw Date - the date you officially withdrew from all of your classes.

Unofficial Withdraw Date - if you stop attending without officially withdrawing, the last documented date of attendance or participation will be the withdrawal date. If all grades are a combination of F, W and I (incomplete) your professors will be asked to report the last date of attendance or participation. This information will be used to determine your eligibility for federal aid.

Non-attendance - if an instructor reports that you did not begin attendance in a class, even if you officially withdrew from the class, then your federal aid will be reviewed to determine your eligibility.

**Appeal for Late Fee Assessments and Refunds**

Student appeals for late payment fees, late registration fees, and refunds of tuition and mandatory fees after the refund deadline are referred to the University Fee Appeals Committee. Requests for refunds and other appeal actions to be considered by the Committee must be submitted within six months after the end of the semester to which the refund or appeal action is applicable. Requests made after that deadline will not be considered.
All appeals must be submitted in writing with attached supporting documentation to the Student Accounts Office. Fee appeal forms are available in the Student Accounts Office and on the web at MyUWF (https://my.uwf.edu) or uwf.edu/financial.

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

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

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

To qualify as a Florida resident for tuition purposes, the student must be a U.S. citizen, permanent resident alien, or a legal alien granted indefinite stay by 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 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, 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 documentation that your parent, legal guardian, or adult relative 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
- 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 or administrative employees of Florida public schools, community colleges, or institutions of higher education and their spouse and dependents
- Students a part of the Latin American/Caribbean Scholarship Program
- U.S. citizens living on the Isthmus of Panama and have completed 12 consecutive months of college work at the FSU Panama Canal Branch, and their spouses or dependent children
- Participants of Southern Regional Education Board’s Academic Common Market
- Full-time employees of state agencies or political subdivisions of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training
- McKnight Fellowship recipients who are U.S. citizens
• Active drilling members of the Florida National Guard who qualify under Florida statute for the tuition assistance program
• Active duty members of the Armed Services of the United States and their spouses/dependent children attending a public college or 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 public college or 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 community college or state university within 50 miles of the military establishment where the foreign liaison officer is stationed

Alabama Differential Out-of-State Tuition
Residents of Alabama are eligible for the Alabama Differential Tuition Plan, a reduced out-of-state tuition rate. For more information, new students should contact the Graduate School and currently enrolled students should contact the Office of the Registrar. Alabama residents must be U.S. citizens, permanent resident aliens, or legal aliens granted indefinite stay by INS, and meet one of the following requirements to qualify for differential tuition:
• Be an independent person, according to the Federal Income Tax Code, who has established and maintained legal ties within the state of Alabama as evident by a combination of driver’s license, vehicle registration, voter registration, Declaration of Domicile, etc. for the previous 12 months. If qualifying as a spouse of a legal resident of Alabama, a copy of the marriage certificate is also required.
• Be a dependent person, according to the Federal Income Tax Code, whose parent or legal guardian has established and maintained legal ties within the state of Alabama as evident by a combination of parent/guardian’s most recent IRS tax return (section listing dependents) and parent/legal guardian’s driver’s license, vehicle registration, voter registration, Declaration of Domicile, etc. for the previous 12 months.
• Be a member of the Armed Services of the United States, on active military duty pursuant to military orders, who is stationed within the state of Alabama or whose state of legal residence, as evident by the HOR or LES, is Alabama. If qualifying as a spouse of a qualified armed services member, a copy of the marriage certificate is also required. The most recent IRS tax return (section listing dependents) may be required for a dependent child.

Change of Residency Status
Change of Residency or reclassification procedures apply to any student who attended UWF within the last three semesters and is requesting a change to his or her residency status. A student who has been enrolled, while classified as a “non-Florida resident for tuition purposes” and wishes to be considered for reclassification as a “Florida resident for tuition purposes,” should file with the Office of the Registrar a “Request for Change of Residency Status” form, with copies of supporting documentation attached. The request and documentation must be submitted one week (7 days) prior to the first day of classes for any given semester.
This request for reclassification is also required for students who are active duty or discharged members of the Armed Forces who wish to change from non-Florida or temporary Florida resident to Florida resident status.
Living in or attending school in Florida will not, in itself, establish legal residence. An individual must be able to demonstrate that his/her activities in Florida during the qualifying period are not primarily student related. Residency in Florida must be for the purpose of establishing a permanent home and not merely incidental to enrollment at an institution of higher education. A period of non-enrollment during the 12 month qualifying period may be required. In addition, university residence halls, fraternities, sororities, scholarship houses, and other UWF campus addresses are not permanent addresses for residency purposes. The burden of proof of permanent residence lies with the student. Requirements for residency for tuition purposes may be found in the Admissions section of this Catalog.
Graduate Academic Policies

In this section:
- General Policies (p. 29)
- Registration Policies and Procedures (p. 37)
- 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. 6).

University Responsibilities

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

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

College and Department Responsibilities

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

Student Responsibilities

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

Student Technology and Electronic Mail Requirement

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

Student use of UWF information technology resources is governed by the Computing Resources Usage Agreement and the Student Communications Policy. (See the My Account app in MyUWF). The University uses e-mail for both formal and informal communication with students. Each student, upon enrolling, is issued a UWF email 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 email 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, standardized test registrations, 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 graduate program and completing work at the masters 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 petition their departments and colleges for a maximum of 12 semester hours completed as a non-degree seeking student to apply toward a graduate degree once admitted into a graduate program.

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 graduate UWF 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 at the Cashiers Office. 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. 6) 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 16 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

Master’s and Specialist

Good Academic Standing

Students are considered to be in good academic standing if they are currently enrolled and eligible to re-enroll at UWF.

Academic Probation

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

Graduate students on probation are required to attain a cumulative GPA of 3.0 upon completing the next academic semester, following the date which the student was placed on academic probation. Students not achieving this requirement may be suspended from the program. The academic department and college dean have the prerogative to continue a student on probation as determined by the student’s individual circumstances.

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.

Academic Suspension

Graduate students not achieving a cumulative GPA of 3.0 within the probationary semester may be suspended from the program. Written notification will be mailed by the department to the student. 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.

Re reinstatement

Students suspended from a graduate program may petition for reinstatement after the lapse of one academic semester during which the students are 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 fails to achieve a semester GPA of higher than 3.0 within the semester of reinstatement, the student will be dismissed from the program.

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

Doctoral Program

Good Academic Standing

Students are considered to be in good academic standing if they are currently enrolled and eligible to re-enroll at UWF.

Academic Probation

A student’s degree program GPA must be at least 3.25 (on a 4.0 scale) for all courses taken at UWF. No grades of “C-” in the major courses and no grade of “D” may be counted toward the Doctor of Education degree. A grade of “S” (satisfactory) is not considered in the evaluation
of academic standing. Students who do not maintain a 3.25 GPA are placed on academic probation. Specialization areas may have additional requirements regarding acceptable letter grades for major courses that are counted toward the Ed.D. degree. Graduate students on probation are required to attain a cumulative GPA of 3.25 upon attempting or completing a total of up to 10 additional semester hours of graduate work, following the date which the student was placed on academic probation. Students not achieving this requirement may be suspended from the program. The academic department has the prerogative to continue a student on probation as determined by the student's individual circumstances.

**Academic Suspension**

Students who do not achieve a cumulative GPA of 3.25 within the period designated may be suspended from the program. Students should consult the Ed.D. Program Office for requirements for the Preliminary Examination and continued enrollment in the program.

**Reinstatement**

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

**Non-Degree Students**

Non-degree students are subject to the same academic standards and review procedures as students admitted to graduate degree programs.

**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.

**Admission to an ABM Program**

Refer to the Admissions General Information (https://nextcatalog.uwf.edu/graduate/admissions/generalinformation/#acceleratedbachelorstomastersprograms”) 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 department 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.
Class Attendance

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

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

- Students will be excused from class to observe religious holidays of their faith. No major test, major class event, or major University activity will be scheduled on a major religious holiday.
- Absences for imposed legal responsibilities (e.g., jury duty, court appearance) will be recognized as excused absences.
- Absences resulting from participation in extracurricular activities in which students are official representatives of the University will be recognized as excused absences.
- Absences for serious illness, death or serious illness within the student’s immediate family, military obligations, or other sound reasons offered by the student may be accepted as excused absences.

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

Reserve/National Guard Duty

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

Comprehensive or General Examination

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

Continuous Enrollment

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

GPA Requirement

Master’s

A student must satisfy the UWF GPA requirement of 3.0 based upon grades for all courses included in the initial and approved degree plan and grades for all courses included in subsequent revisions. No grade for a course taken as part of an approved graduate degree program may be deleted from the GPA. Individual programs may set more stringent GPA requirements. Students must be cleared from academic probation in order to be eligible to graduate.
The UWF academic transcript, the student academic record, and grade report do not reflect the degree program GPA. These records indicate a GPA of all UWF graduate level courses with the exception of those included in a UWF baccalaureate degree.

**Specialist**

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

**Doctoral Program**

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

**Readmission**

Students who do not maintain continuous enrollment and who are readmitted to the University after non-enrollment of three consecutive semesters 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. Doctoral students must consult the Ed.D. Program Office for readmission information.

**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. § 1232g). These categories of records are not subject to FERPA and UWF regulations:

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

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

**Change of Student Information**

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

**Student Photos**

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

**Death of a Student**

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

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

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

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

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

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

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

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

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

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

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

Directory Information

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

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

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

Students may choose to restrict all or a portion of their directory information release 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 annual Campus Directory which includes a campus locator and the names, addresses, telephone numbers, and departmental affiliation for faculty, staff, and students. Copies are provided for distribution to the student body, faculty, and staff. Additional copies may be obtained at the Welcome Center, UWF Bookstore, Ticket Office, Cashier’s Office, the Office of the Registrar, and Nautilus Card Office. The electronic directory is available internally through MyUWF for University students, faculty, and staff. Students who are also listed as employees of the University will have work related directory information included in the employee directory regardless of their student privacy status. Students may inform the University in writing if they choose to prevent publication of directory information. Students must indicate privacy through MyUWF or complete and submit a privacy form to the Office of the Registrar by the end of the fall semester’s drop/add period for information to be withheld from the published Directory (see Annual Notification of Student Records and Directory Information).

Thesis Requirement

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

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

Time to Degree

Master’s

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

Specialist

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

Doctoral Program

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

Tool of Research Requirement

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

Transfer of Credit

Master’s and Specialist

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

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

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

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

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

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

Doctoral Program

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 at: uwf.edu/president/policies/ or uwf.edu/osrr/

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

Forms of Academic Misconduct

Violations by a student of any of the following actions constitutes an offense that 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-(Academic Department)

Department level academic appeals include requirements for program admission, substitutions or waivers for department requirements, course pre-requisites, 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-(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-(Graduate Dean/University Registrar)

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

- Late or retroactive withdrawals
- GPA requirement

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

Substitution of Graduation Requirements for Students with Disabilities

Students with documented visual impairments, hearing impairments, motor impairments, or specific learning disabilities may petition for substitution of degree requirements provided such substitutions do not significantly alter the nature of the program in which the student is enrolled. For more information about the University’s degree 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://catalog.uwf.edu/undergraduate/academicpolicies/registration/#withdrawal)
- Waiver of graduation requirement appeal (http://uwf.edu/registrar/Waiver%20of%20grad%20requirement.pdf)
• Reinstatement after removal for non-payment appeal (http://uwf.edu/registrar/Reinstatement.pdf)
• Fee appeals (http://uwf.edu/registrar/feeappeals.pdf)
• Repeat course surcharge waiver appeal (http://catalog.uwf.edu/undergraduate/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/undergraduate/academicpolicies/grades/#gradeappeal)
• Housing charges appeals (http://uwf.edu/housing/onlineforms/appealchargeform.cfm)
• Housing Cancellation appeals (http://uwf.edu/housing/onlineforms/denialappealform.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://www.uwf.edu/admissions/residency/res_appalcs.cfm)
• Student conduct code appeals (http://uwf.edu/osrr/documents/BOTApprovedStudentCodeofConduct-2010edition.pdf)

Registration Policies and Procedures

The Navigation Guide provides information and instructions for enrollment at on and off-campus locations. Course offering information is available at uwf.edu/registrar. 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.

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.

Registration Holds

A registration hold will be placed on the student record for one or more of the following reasons: academic suspension, incomplete admissions documents, financial obligations (parking tickets, library fines, etc.), administrative discipline, failure to comply with the immunization requirements, academic advising, student athlete monitoring, etc. A registration hold must be lifted or deleted prior to registration. Students are able to view their grades, schedules, holds, and financial aid information in MyUWF (https://my.uwf.edu). Students should contact the appropriate office and arrange for removal of the registration hold to register for classes, receive official transcripts, grades, and diplomas.

Late Registration

Registration must be initiated prior to the first day of any given term within each semester to avoid the 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, nine semester hours is considered full-time for the fall and spring semesters and six semester hours for the summer semester. Students who withdraw are not considered enrolled in the course once the withdrawal has been processed.

Doctoral Program

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

Certification of Enrollment

The University of West Florida reports enrollment status based on the definitions listed below:

<table>
<thead>
<tr>
<th>Status</th>
<th>Fall/Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time</td>
<td>9 SH or more</td>
<td>6 SH or more</td>
</tr>
<tr>
<td>Half-Time</td>
<td>6-8 SH</td>
<td>N/A</td>
</tr>
<tr>
<td>Less than Half-Time</td>
<td>1-5 SH</td>
<td>0-5 SH</td>
</tr>
</tbody>
</table>

* Students enrolled as non-degree seeking will be classified as undergraduate for purposes of the enrollment certification. For undergraduate enrollment status definitions, please refer to the Certification of Enrollment (http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#Certification_of_Enrollment) section of the Undergraduate Catalog.

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 granted for the internship.

Course Prerequisites/Corequisites

Many courses require prerequisites and/or corequisites. These requirements are included in the specific course descriptions. A prerequisite is a course in which credit must be earned prior to enrollment in a specific course. A corequisite is a course which must be taken concurrently with or prior to a specific course. Students must have completed the required prerequisites and register for, or have completed, corequisites prior to registration for the specific course. It
is the student’s responsibility to review prerequisite and corequisite information as stated in the course description.

**Directed Independent Study**

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

**Non-Degree Students/Graduate Level Courses**

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

**Southern Regional Education Board’s (SERB) 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. 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. 6) for summer semester and short term dates). Students must have the instructors 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 may be processed during the registration period and the scheduled drop/add period. Students may choose to change their class schedules in MyUWF (https://my.uwf.edu) or by completing “Drop/Add” forms and submitting them to the Office of the Registrar. If the drop/add results in a change of fees, the student must pay the additional fees as assessed. 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 drop/add period should be addressed to the Office of the Registrar.

**Repeat Course Surcharge**

Florida public institutions are required to implement a repeat course surcharge for students who take a State-funded undergraduate 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. 23) section). Appeals should be addressed to the Office of the Registrar.

**Withdrawal**

**Cancelation of Registration**

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

**Individual Class Withdrawal**

After the drop/add period, a student may withdraw from a course while remaining in other course(s) through approximately the tenth week of instruction of any fall or spring semester*. A grade of “W” will be assigned during this period. Students may process withdrawals online through the “Withdrawal” app in MyUWF (https://my.uwf.edu). Students also have the option of submitting a withdrawal form to the Office of the Registrar, building 18, on the Pensacola campus or at the UWF Emerald Coast - Fort Walton Beach.

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

Currently enrolled students may withdraw through MyUWF (https://my.uwf.edu). Students withdrawing from all courses prior to the end of the 4th week of a full semester will receive a grade of “WR” (partial refund). A grade of “WR” is not computed in the UWF GPA.

Students withdrawing from all courses after the fourth week through the end of the tenth week of any fall or spring semester will receive a grade of “W” in each course. Students withdrawing after the designated automatic “W” deadline through the last day of instruction will be assigned a grade of “W” or “WF” at the discretion of the course instructor(s). Grades of “WF” are computed in the UWF GPA. 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 Cashiers Office for questions regarding fee liability or financial aid awards. Students who withdraw from all classes are 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 appropriate statement indicating action taken was due to military active duty service.

Late Withdrawal 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 by all in the approval process
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/registrar/latewithdrawal.pdf) form which must include the recommendations (in order) of the advisor, instructor, and department chairperson of the course. If the instructor is no longer at UWF, the department chairperson can sign for the instructor. A separate form is required for each course in the semester for University withdrawals.
- A one-page typed statement fully explaining the reasons for the appeal; the statement should include the course of events in chronological order with dates specified, what prevented your academic success in the course, and why you did not withdraw by the withdrawal deadline.
- Documentation which supports your reasons to appeal:
  - All documentation is subject to verification.
  - Medical documentation should be submitted from a health care provider, psychologist, or counselor on official letterhead. The documentation should include the nature and duration of the illness/personal problems during the semester in question, the dates of services provided, and the provider’s signature.
  - Documentation of a death would include a death certificate or obituary stating the relationship of the deceased to the student.
  - Appeals will not be considered without documentation.

Appeals for Fee Refunds

Fee appeals should be addressed to the Cashiers Office in Building 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. 6) for specific deadlines including summer and short term dates.

Reinstatement for Canceled Registration

Reinstatements 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 “Reinstatement from Canceled Registration” form is available through the Registrar’s home page at uwf.edu/registrar.

Final Examinations

Final examination periods consist of 150 minutes for courses taught in Term A of the fall and spring semesters. Exams are scheduled during the week of final exams of the fall and spring semesters and during the last week of classes of the summer semester (see the Academic Calendar (p. 6)). Final exams are listed on students’ registration schedules and may be viewed in MyUWF (https://my.uwf.edu). Final examinations may be scheduled on Saturday.

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. 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. Specific details and forms are available at uwf.edu/registrar/stateemployee.cfm.

Senior Citizen Tuition Fee Waiver

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

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

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

International Student Exchange Programs

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

Grades and Academic Credit Policies

Grading Policies

Grading System

Grades will be reported in the following manner:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Outstanding</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>Outstanding</td>
<td>3.7</td>
</tr>
</tbody>
</table>
Grade Changes

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

Grades of Incomplete

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

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

Grade Appeal

Students should consult the Student Handbook and Planner found online at thezonelive.com/zone/public/6/schoolHome.asp?i=12706 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.

Student Handbook and Planner
Transcripts

Official transcripts may be ordered via the web, by telephone, by mail, or in person. There is a fee for each official transcript. The University does not accept facsimile requests for transcripts. Students may obtain an unofficial transcript at no charge through MyUWF or through LighHouse. Refer to uwf.edu/registrar under transcripts for additional information and instructions for ordering a transcript. UWF transcripts include all course work taken at UWF, degrees awarded, and accepted transfer credit (institutions, courses, and grades). UWF transcripts only list UWF’s grade point averages.

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

Academic Credit Policies

Academic Credit

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

Directed Studies

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

Nontraditional Credit - Credit by Proficiency

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

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

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

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

Use of Undergraduate Credit in a Master’s Program

A master’s program may include a maximum of six semester hours or two courses (whichever is greater in credit) of UWF undergraduate level course work. Requests for use of an undergraduate course in a master’s program must be submitted by the end of the drop/add period of the semester of enrollment. If the course is offered at the graduate level (5000-6999) students may not register for the undergraduate section. Courses must meet the following criteria:

- Undergraduate courses must be at the 3000-4000 level and be annotated for graduate credit (i.e., included in a master’s program and requiring additional work to receive graduate credit).
- Undergraduate courses must be completed at the University of West Florida.

Graduation and General Degree Requirements

Master’s Degree Requirements

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

- Students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
- Completion of minimum 30 semester hours in an approved program;
- Completion of minimum 15 semester hours of coursework at the 6000 level or above;
- Completion of minimum 24 semester hours of credit at UWF. The department offering the program may require additional residency;
- Graduate GPA of a minimum of 3.0, refer to GPA Requirement (p. 32) for more information;
- Complete degree requirements within six years from the date the UWF degree is awarded, refer to Time to Degree (p. 35) requirement for more information;
- A degree will not be awarded for a student on academic probation or suspension;
- Master’s students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

Requirements for Second UWF Master’s Degree

Requirements listed below are applicable for students who already hold a master’s degree from UWF or who are pursuing two masters’ degrees simultaneously. Students who have earned a master’s degree from another institution must meet the requirements listed under Master’s Degree Requirements.

- Graduate students may be candidates for two master’s degrees at UWF. Candidacy in two separate master’s programs may be held in overlapping time periods. Candidates must meet the conditions of graduate status stipulated by both departments;
Since a master's degree represents a level of attainment, some (or all) courses included in one graduate program may be used by another department to satisfy the formal requirements for a second graduate degree. A minimum of 18 semester hours must be taken for the second graduate degree which were not a part of the first degree;

A degree will not be awarded for a student on academic probation or suspension;

Master's students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;

Master's students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

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

Specialist Degree Requirements
To be eligible for an Ed.S. degree, students must meet the following requirements:

- Be admitted to the program;
- Submit an approved degree plan which includes at least 36 semester hours;
- At least nine semester hours of all course work in the Curriculum and Instruction Specialist program must be of 7000 level. The remainder will be at the 5000-6000 level except when specific waivers have been obtained;
- 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;
- Have a minimum GPA of 3.0 in the Specialist program;
- Complete degree requirements within seven years from the date of admission;
- Be recommended for graduation by the departmental chairperson;
- 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;
- 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 who need to be readmitted will be required to meet the degree requirements of the current Catalog.

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:

- Be admitted to the program by the Ed.D. Program Committee and dean;
- 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 2 consecutive academic years (includes summer sessions). The Ed.D. program director monitors and verifies student compliance with the provisions of this requirement;
- Students must successfully complete an APA seminar during their first or second semester in the program;
- Complete the Preliminary Examination during the specified time frame;
- Complete all requirements to advance to candidacy;
- Have maintained a minimum cumulative program GPA of 3.25 with no grades lower than a B- in course work counted toward the degree. Specialization areas may have additional requirements regarding acceptable letter grades for major courses that are counted in the degree program;
- Successfully complete and orally defend a dissertation;
- Be recommended for graduation by the doctoral committee, departmental chairperson, and the Ed.D. Program Office;
- Complete degree requirements within seven years after the date of admission;
- A degree will not be awarded for a student on academic probation or suspension;
- Doctoral students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students should contact their program of
study advisor to determine the minimum hours and courses in which to enroll. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

**Dissertation Course Registration Requirements and Grading**

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

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

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

**Application for Graduation**

Students fulfilling requirements for a UWF master’s or specialist degree must submit an "Application for Graduation" to their major departments by the application deadline stated in the Academic Calendar (p. 6). Doctoral students apply for graduation the semester prior to the dissertation defense and must apply through the graduate department in the Ed.D. Program Office. Graduation application forms are available on the Office of the Registrar website (http://uwf.edu/registrar). Retroactive graduation to a prior semester will not be approved.

**Commencement**

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

Those master’s students who plan to graduate in the summer should apply for summer graduation only. Prospective summer graduates have the option to participate in either the preceding spring or following fall ceremony. Doctoral students intending to graduate in the summer may not participate in the spring ceremony unless the dissertation has been fully approved and participation is approved by the Dean of the Graduate School. "Applications for Graduation" should be turned in to the major department by the date stated in the Academic Calendar (p. 6). 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**

The Student Academic Support System (SASS) identifies and tracks all graduation requirements for each master’s degree at the University. Students may check their individual progress toward degree completion by reviewing their SASS audit, which is available in MyUWF. The SASS audit is used for their final graduation check and a completed (bannered) audit is required before a master’s degree is awarded.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The University offers many diverse opportunities for participation in extracurricular activities and encourages the development of student interest groups and activities. The University Commons and Student Activities Office (UCSA) coordinates all Campus Activity Board events, Homecoming activities, Argo Arrival (welcome week) events, student organization events including fraternity and sorority recruitment, and an emerging leadership program. The office 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 180 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 just 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. UCSA maintains an online service called ArgoPulse (http://uwf.edu/argopulse/index.cfm) that provides links to opportunities for student involvement.

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

Intercollegiate Athletics

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

The Argonauts compete in the National Collegiate Athletic Association (NCAA) Division II and the Gulf South Conference. Championship playoff opportunities are provided in each sport. Each team plays a full schedule of competition with schools throughout the southeastern United States, and many institutions from the Midwestern and Eastern sections of the country visit UWF in the spring. The Argonauts have won 71 GSC championships and seven national championships.

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

**ArgoAlert – Emergency Notification System**

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

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

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

**Bookstore**

**UWF Bookstore – The Official University Bookstore**

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

**BookNow**

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

**Rental Books**

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

**Bookstore Deferment Program**

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

**Career Services**

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

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

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

**Cooperative Education**

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

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

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

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

Child Care

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

Copy Services

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

Counseling and Wellness

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

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

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

Dining Services

Dining Services locations on campus are as follows:

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

**Pace Library**: “We Proudly Serve” Starbucks

**HLES Facility**: Terra Juice

**College of Professional Studies Building**: Sub Generation

**Science and Engineering Building**: Outtakes

**College of Business Building**: Outtakes

**Presidents Hall**: Papa Johns Pizza/Outtakes

**Outdoor Cafe**: Bistro Blue food truck

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

Disability Services for Students

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

Emergency Management

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

Escort Service

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

Health Services

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

Housing and Residence Life

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

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

ID/Nautilus Card

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

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

Information Technology Services

UWF provides students with access to a variety of quality information technology services and resources. Many of these resources are provided by the central IT department (called ITS) and others are provided by individual colleges and departments. Information on all ITS services is available on the “IT Help” tab in ARGUS and at uwf.edu/its.

ArgoNet Account

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

**MyUWF**

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

**UWF Email**

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

**eLearning**

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

**ArgoAir Wireless Network**

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

**Campus Computer Labs**

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

**eDesktop Virtual Computer Lab**

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

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

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

**Protect Your PC**

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

**ITS Help Desk**

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

**Libraries**

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

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

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

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

Parking Services

All students and employees who park on University property are required to register their vehicles and purchase a parking permit either online via MyUWF (my.uwf.edu) or at the Cashier’s Office in Building 20E. Permit enforcement begins the first day of class each term. Students should ensure that a current valid permit is properly displayed on their vehicle.

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

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

Trolley Service

Three Trolleys serve the UWF campus during the Fall and Spring semesters, Monday through Thursday. On Friday, two Trolleys serve the campus with service ending at 4:15pm. On Saturdays, one Trolley serves the campus, with service ending at 4:05pm. There are 20 official Trolley stops on campus, but the Trolley will stop when hailed. A Trolley schedule can be found on the Parking Services web site. The Trolley also makes one stop off campus at the University Town Center Shopping area (Target/Publix, Nine Mile Rd).

City Bus Service (ECAT)

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

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

Postal Services

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

Student Printing

Student printing services are offered via 25 kiosks on the Pensacola campus and 1 on the FWB campus in the library. Students may print from their home computer, smartphone device, online or using USB at any of the kiosks. The kiosks accept most PC and MAC files. Prints are 8.5”x11” and may be color or black/white, simplex or duplex. For additional information, contact the Nautilus Card office at (850) 474-3324 or visit uwf.edu/studentprinting.

Recreation and Sports Services

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

The Fitness Center

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

Intramural Sports

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

The Sport Clubs Program

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

The Outdoor Adventure Program

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

The University Aquatic Center

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

Facility Operations

Facility Operations allows access to and checkout of sports and recreational equipment. Upon presentation of a valid Nautilus Card, students, faculty, and staff may use the HLS facility, sailing and outdoor facilities. Recreation and Sports Services also has a variety of activity spaces available for rental. Contact Recreation for more information.

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

Skills Improvement Centers

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

The UWF Writing Lab

The Writing Lab, located in Building 51, offers services to students, faculty, administrators, and staff. Any University student may use the Writing Lab for assistance with spoken and written English, including writing effective college papers. The Writing Lab offers many valuable services, which are available 40 hours a week. For additional information, contact Dr. Franco Fedele, (850) 474-2276, with the Math Department. Download the Write Advice Newsletters and handouts from the website: uwf.edu/writelab.

Student Ombudsperson

The ombudsperson serves as an alternate resource for all students to complement other existing channels of communication and conflict resolution. The role of the ombudsperson is to serve as a resource and designated neutral party for those who may have a University-related concern or grievance. Such problems may be related to grades, difference of opinion with instructors, interpretation of university policies, or other administrative issues. Students seeking guidance or assistance related to their University of West Florida (UWF) experience should contact the UWF Student Ombudsperson. The Student Ombudsperson, a full-time University student, is appointed by the Student Advocate and is responsible for the administration of programs designed to increase recruitment, retention and graduation rates of participating students. Student Success Programs provide academic support services for students enrolled at the University. Contact: Student Success, Building 18, Room 137, (850) 474-3266, or uwf.edu/studentsuccess/.

Brother to Brother

Brother to Brother is a pilot mentoring component designed to increase retention and graduation rates of African-American, Latino, and Hispanic males. Contact: Brother-to-Brother, Building 18, Room 137, (850) 474-2253/2238/3421 or uwf.edu/studentuccess/supportservices/.

The Learning Center

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

Mentoring Program

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

TRiO/Student Support Services Program

Student Support Services Program (SSS) is a federally-funded TRiO program which provides academic support for eligible undergraduate students. Services include: tutoring, intrusive advising, career planning, cultural and social activities, and academic intervention. Contact: Student Support Services, Building 18/Room 145, (850) 474-3212 or uwf.edu/trioss/.
Testing

The Testing Center offers information on numerous testing programs, and can provide specific information about the following tests:

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

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

University Police

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

Campus Sex Crime Prevention Act

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

Jeanne Clery Disclosure for Campus Security Policy and Campus Crime Statistics Act

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

Vending Services/Beverage Rights

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

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

Voter Registration

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

For information on UNDERGRADUATE DEGREES see the Undergraduate Catalog.

### Master’s Degrees

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<tr>
<th>Degree</th>
<th>Description</th>
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<tbody>
<tr>
<td>M.A.</td>
<td>Master of Arts</td>
</tr>
<tr>
<td>M.Acc.</td>
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</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.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 Science in Social Work</td>
</tr>
</tbody>
</table>

### Specialist Degree

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

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

GRADUATE DEGREE PROGRAMS AND SPECIALIZATIONS OFFERED BY UWF INCLUDE:

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- Administration, M.S.A. (p. 57)
  - Acquisition & Contract Administration
  - Database Administration
  - Geographic Information Science
  - Healthcare Administration
  - Human Performance Technology
  - Leadership
  - Public Administration
  - Software Engineering Administration
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  - Anthropology
  - Historical Archaeology
- Biology, M.S. (p. 63)
  - Biology
  - Coastal Zone Studies
  - Environmental Biology
- Business Administration, M.B.A. (p. 65)
- College Student Affairs Administration, M.Ed. (p. 66)
- Communication Arts, M.A. (p. 67)
  - Strategic Communication and Leadership
  - Community Health Education, M.S. (p. 68)
  - Aging Studies
  - Health Promotion and Worksite Wellness
  - Psycho-Social
  - Computer Science, M.S. (p. 69)
    - Computer Science
    - Database Systems
    - Software Engineering
  - Criminal Justice, M.S. (p. 70) *
  - Curriculum & Instruction, M.Ed. (p. 71)
    - Elementary Education Comprehensive
    - Middle Level Education Comprehensive
    - Primary Education Comprehensive
    - Secondary Education Comprehensive
  - Educational Leadership, M.Ed. (p. 74)
    - Educational Leadership Certification
    - Education and Training Management (ETMS)
    - ETMS-Human Performance Technology Subspecialty
    - ETMS-Instructional Technology Subspecialty
  - English, M.A. (p. 77)
    - Creative Writing
    - Literature
  - Environmental Science, M.S. (p. 79)
  - Exceptional Student Education, M.A. (p. 80)
    - Exceptional Student Education Comprehensive
  - Health, Leisure & Exercise Science, M.S. (p. 82)
    - Exercise Science
    - Physical Education
  - History, M.A. (p. 83)
    - History
    - Public History
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### Educational Specialist Degrees

- Curriculum & Instruction, Ed.S. (p. 96)
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### Doctoral Degrees

- Curriculum & Instruction, Ed.D. (p. 98)
Graduate Degrees and Areas of Specialization

- Administrative Studies
- Curriculum & Diversity Studies
- Instructional Technology
- Physical Education and Health
- Sciences & Social Sciences
- Teacher Education

*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.

Educational Specialist Degree
- Educational Leadership, Ed.S.

Doctoral Degree
- Curriculum & Instruction, Ed.D.

Degrees Available at the UWF Online Campus:

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

Graduate Certificate Programs

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

- Civics Educator Certificate (p. 88)
- Database Systems (p. 69)
- Distance Learning (p. 85)
- Entrepreneurship (p. 66)
- Evolutionary Biology (p. 65)
- Geographic Information Science (p. 80)
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- Health Communication Leadership (p. 68)
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- Not-For-Profit Administration (p. 61)
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- Professional Accountancy (p. 57)
- Public Health/Emergency Management (p. 93)
- Public Health/Environmental Health (p. 94)
- Public Health/Infection Control (p. 94)
- Public Health/Occupational Safety and Health (p. 94)
- Teacher Ready (p. 74)
- Virtual Educator (p. 85)

Accounting

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

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

Contact the department for information about graduate assistantships and scholarships.

Foundational Proficiencies

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

ACG 3101  Intermediate Financial Accounting I  3
ACG 3111  Intermediate Financial Accounting II  3
ACG 3343  Cost Accounting  3
ACG 3401  Accounting Information Systems  3
ACG 4151  Accounting Theory  3
ACG 4201  Advanced Financial Accounting  3
ACG 4651  Auditing  3
BUL 3130  Legal Environment of Business  3
FIN 3403  Management Finance  3
TAX 4001  Tax Accounting  3

Total Hours  30

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

Admission Requirements

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

Application and Counseling

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

Degree Requirements

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

Program Electives 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000/6000</td>
<td>Advisor-approved ACG/TAX electives totaling 9 hours. Must fulfill Corporate Income Tax and Governmental &amp; Non-Profit Accounting requirements at undergraduate or graduate level.</td>
<td></td>
</tr>
<tr>
<td>5000/6000</td>
<td>Advisor-approved COB elective</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 30

Taxation Specialization

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

Certificates

Professional Accountancy Certificate

Department: Accounting

Method of Instruction: Online

Semester Hours: 12

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

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

Administration

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

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

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

M.S.A. Core (12 sh)

<table>
<thead>
<tr>
<th>Course</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 I</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
<td>1.5</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose from the following

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5870</td>
<td>MBA Foundations: e-Business Systems</td>
</tr>
<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management (Ad)</td>
</tr>
</tbody>
</table>

Advisor approved GEB course relating to specialization

Total Hours 12

Acquisition and Contract 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:
  - 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

M.S.A. Core (12 sh)

See Program Requirements

Database Administration Specialization

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

Admission Requirements

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

M.S.A. Core (12 sh)

See Program Requirements

Database Administration Specialization (24 sh)

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

Total Hours 24

Geographic Information Science (GIS)

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

In addition to the University graduate admission requirements described in the Admissions section (p. 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
- Undergraduate Senior Year/Major GPA
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Submission of three Recommendation Forms (http://catalog.uwf.edu/graduate/administration/GIS_Letter_of_Recommendation_Form.pdf) (PDF)

M.S.A. Core (12 sh)

See Program Requirements

Geographic Information Science (GIS) (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 3015-L</td>
<td>GIS Programming</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4035-L</td>
<td>Photo Interpretation and Remote Sensing (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4043-L</td>
<td>Geographic Information Systems (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Health Care 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:

- 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.

M.S.A. Core (12 sh)

See Program Requirements

Geographic Information Science (GIS) (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6005</td>
<td>Communicating GIS</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6555</td>
<td>Geographic Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6955</td>
<td>GIS Capstone</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

Health Care 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:

- 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.

M.S.A. Core (12 sh)

See Program Requirements

Geographic Information Science (GIS) (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6005</td>
<td>Communicating GIS</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6555</td>
<td>Geographic Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6955</td>
<td>GIS Capstone</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

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

M.S.A. Core (12 sh)

See Program Requirements

HPT Specialization (24 sh)
Additionally, a culminating experience as determined with the academic advisor and chairperson is required.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 5355</td>
<td>Instructional Design for HPT</td>
<td>1.5</td>
</tr>
<tr>
<td>EME 6357</td>
<td>Instrument Design for Performance Technology</td>
<td>1.5</td>
</tr>
<tr>
<td>EME 6426</td>
<td>HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6427</td>
<td>Implementing HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6428</td>
<td>Evaluating HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6429</td>
<td>Human Performance Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EME 6906</td>
<td>Seminar in HPT Issues: Human-Computer Interaction</td>
<td>1.5</td>
</tr>
<tr>
<td>EME 6946</td>
<td>Field Experiences in Instructional and Performance Technology (Capstone)</td>
<td>3</td>
</tr>
</tbody>
</table>

Advisor approved elective | 1.5 |

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I *</td>
<td></td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research *</td>
<td></td>
</tr>
<tr>
<td>EME 6408</td>
<td>Integrated Technology Learning Environments</td>
<td></td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td></td>
</tr>
<tr>
<td>EME 6628</td>
<td>Contract Administration: Large Scale Instructional Technology Systems</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 24

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

Leadership 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)
  • 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

M.S.A. Core (12 sh)

See Program Requirements

Leadership Specialization (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5434</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6137</td>
<td>Project Leadership and Administration</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 6425</td>
<td>Public Service Conflict Management and Resolution</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6706</td>
<td>Public Administration Research Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6314</td>
<td>Technology for Leaders</td>
<td></td>
</tr>
<tr>
<td>PAD 5107</td>
<td>Modern Public Organization Theory</td>
<td></td>
</tr>
<tr>
<td>PAD 5386</td>
<td>Leadership, Community, and Change</td>
<td></td>
</tr>
<tr>
<td>PAD 5605</td>
<td>Administrative Law</td>
<td></td>
</tr>
</tbody>
</table>

Advisor approved courses

Capstone Experience 3

Advisor approved Advanced Administration Elective, Pre-approved Internship or Faculty Supervised Project

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
M.S.A. Core (12 sh)

See Program Requirements

Public Administration Specialization (24 sh)

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

Choose two of the following: 6

PAD 5434 Leadership
PAD 5635 Government Contract Law
PAD 5855 Acquisition Administration
PAD 6041 Public Service Ethics
PAD 6053 Public Administration Professional
PAD 6425 Public Service Conflict Management and Resolution
PAD 6706 Public Administration Research Methods
PUP 5045 Analytic Techniques for Public Policy Analysis

Advisor approved elective relating to specialization 3

Total Hours 24

Software Engineering Administration Specialization

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

Admission Requirements

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

M.S.A. Core (12 sh)

See Program Requirements

Software Engineering Administration Specialization (24 sh)

CEN 6016 Software Engineering Process 4
CEN 6064 Software Design 4
CEN 6095 Software Engineering Practice and Tools 4
COP 5725 Database Systems 3
Advisor approved elective 3
COT 6931 Computer Science Project (Capstone) * 6

* Course taken two times for 6sh

Total Hours 24

Certificates

Not-For-Profit Administration Certificate

Department: Applied Science, Technology, and Administration

Method of Instruction: Online

Semester Hours: 10.5

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

PAD 5146 The Nonprofit Profession 3
PAD 6335 Strategic Management for Public and Nonprofit Organizations 3
PAD 6227 Public Budgeting 3
GEB 5509 Interpretation and Application of Generally Accepted Accounting Principles for Non-Profit Organizations 1.5
or EME 6358 Evaluation for MSA Professionals

Total Hours 10.5

Anthropology

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

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

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

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 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
- Achieving no less than a “C” grade in any course
- A grade lower than a “B-” will not satisfy program requirements

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

**Program Capstone**

**Thesis**

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

**Anthropology**

**Foundational Proficiencies**

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

**Degree Requirements**

**Anthropology Core**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6110</td>
<td>Advanced Method and Theory in Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></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 Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**Research**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6971</td>
<td>Anthropology Thesis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>3</strong></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 Code</th>
<th>Course Title</th>
<th>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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
<tr>
<td></td>
<td>Choose one of the following Archaeological Field Methods:</td>
<td><strong>1-9</strong></td>
</tr>
<tr>
<td>ANT 4121</td>
<td>Combined Archaeological Field Methods</td>
<td></td>
</tr>
</tbody>
</table>
The M.S. in Biology offers three areas of specialization:

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

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 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 or equivalent GRE percentile performance under the new testing platform (based on distributions of scores of recent Life Sciences test takers).
- Earned baccalaureate degree
  - **Thesis Track:** Applicants for the thesis track should hold a B.S. in Biology or a related field from an accredited college or university. Applicants applying for admission to the thesis track with a B.A. in Biology or a B.S. degree in another area must have satisfactorily completed all upper and lower division core classes (or equivalents) required of UWF biology undergraduates.
  - **Non-Thesis Track** Applicants applying for admission to the non-thesis tracks with a B.S. or B.A. in another discipline should have completed General Zoology, General Botany, Cell Biology, Genetics, and Ecology.
- Submission of a letter describing the student’s area of interest within biology, relevant past experience, future objectives, and, for students applying to the thesis track, the name of a UWF faculty member who has agreed to serve as their thesis advisor.
- Submission of three letters of recommendation from individuals who can evaluate the student’s academic ability.
- 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.

**Degree Requirements**

**Historical Archaeology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>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>
<tr>
<td>ANG 6824</td>
<td>Advanced Archaeological Field Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours:** 15

**History**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000/6000</td>
<td>Level advisor or committee approved History courses</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Hours:** 9

**Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000/6000</td>
<td>Level advisor or committee approved Anthropology, History, or area of research-related courses.</td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Hours:** 9

**Research**

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

**Total Hours:** 3

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

**Biology**

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

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

**Department Guidelines**

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

**Departmental Application Deadlines and Review Process**

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

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

**Biology Specialization (Thesis)**

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

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 4824</td>
<td>Terrestrial Archaeological Field Methods</td>
<td></td>
</tr>
<tr>
<td>ANG 4835</td>
<td>Maritime Archaeological Field Methods</td>
<td></td>
</tr>
<tr>
<td>ANG 4871</td>
<td>Anthropology Thesis *</td>
<td></td>
</tr>
<tr>
<td>ANG 4824</td>
<td>Maritime Archaeological Field Methods</td>
<td></td>
</tr>
<tr>
<td>ANG 5172</td>
<td>Historical Archaeology Seminar</td>
<td></td>
</tr>
<tr>
<td>ANG 5173</td>
<td>Historical Research Methods in Archaeology</td>
<td></td>
</tr>
<tr>
<td>ANG 6110</td>
<td>Advanced Method and Theory in Archaeology Seminar</td>
<td></td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Policies, Practices and Archaeology in Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>ANG 6824</td>
<td>Advanced Archaeological Field Methods</td>
<td></td>
</tr>
<tr>
<td>ANG 6971</td>
<td>Anthropology Thesis *</td>
<td></td>
</tr>
<tr>
<td>ANG 6971</td>
<td>Anthropology Thesis *</td>
<td></td>
</tr>
</tbody>
</table>

• Course offered 1-9 sh per semester
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.

• Six semester hours or two courses of UWF upper division undergraduate credit in biology that has not been counted toward another degree may be approved as part of the program. The courses must be annotated for graduate credit (i.e., included in a master’s program and requiring additional work to receive graduate credit).

• Submit an acceptable thesis and successfully defend it in an oral public presentation.

Coastal Zone Studies Specialization (Non-Thesis)

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

Foundational Proficiencies

Students must take the following courses or their equivalent.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 2010-L</td>
<td>General Botany (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 2131-L</td>
<td>Cell Biology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3063-L</td>
<td>Genetics (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 4043-L</td>
<td>Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 1010-L</td>
<td>General Zoology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Elements of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 4173</td>
<td>Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>GIS 3015-L</td>
<td>Cartographic Skills (+Lab) 1</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4043-L</td>
<td>Geographic Information Systems (+Lab) 2</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>34</strong></td>
</tr>
</tbody>
</table>

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

Degree Requirements

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 6002L</td>
<td>Contemporary Laboratory Skills</td>
<td>4</td>
</tr>
<tr>
<td>BSC 6840</td>
<td>Professional Development in Biology</td>
<td>3</td>
</tr>
<tr>
<td>BSC 6905</td>
<td>Directed Study 1</td>
<td>5</td>
</tr>
<tr>
<td>GEO 5225-L</td>
<td>Coastal Morphology and Processes (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>PCB 5445-L</td>
<td>Estuarine Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 5446-L</td>
<td>Wetlands Ecology (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>PCB 5924</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PCB 6074</td>
<td>Experimental Design in Biology</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved courses</td>
<td></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

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

Evolutionary Biology Certificate
Department: Biology
Method of Instruction: Classroom
Semester Hours: 9
BSC 5305 Biogeography 3
PCB 5675 Principles of Evolution 3
ZOO 5514 Animal Behavior 3
Total Hours 9

Plant Science Certificate
Department: Biology
Method of Instruction: Classroom
Semester Hours: 12
BOT 5376L Plant Developmental Biology (+Lab) 4
BOT 5506L Plant Physiology (+Lab) 4
BOT 5735L Plant Biotechnology (+Lab) 4
Total Hours 12

Business

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

ECO 3003 Principles of Economic Theory and Public Policy 3
MKT 3003 Principles of Marketing 3
ACG 2021 Principles of Financial Accounting 3
ACG 2071 Principles of Managerial Accounting 3
FIN 6406 Financial Management 3
ISM 6026 Management of Information Systems and Technology 3
MAN 6511 Operations Management Problems 3
MAR 6815 Marketing Management 3

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

Admission Requirements

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

Foundational Proficiencies

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

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

ACG 2021 Principles of Financial Accounting 3
ACG 2071 Principles of Managerial Accounting 3
ECO 3003 Principles of Economic Theory and Public Policy 3
or ECO 2013
& ECO 2023
Principles of Economics Macro
and Principles of Economics Micro
FIN 3403
Managerial Finance
3
GEB 3213
Writing for Business: Theory and Practice
6
& COM 4110
and Business and Professional Communication
ISM 3011
e-Business Systems Fundamentals
3
MAC 2233
Calculus with Business Applications
3
MAN 3025
Management Fundamentals
3
MAR 3023
Marketing Fundamentals
3
STA 2023
Elements of Statistics
3
Total Hours
33

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

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.

First Level
GEB 5878
MBA Foundations: Business Process Integration
1.5
GEB 5930
MBA Foundations: Information Resources and Industry Analysis
1.5
AGC 6309
Accounting Aspects of Business Policy Determination
3
GEB 6895
Business and Public Policy
3
ISM 6006
Management of Information Systems and Technology
3
MAN 6156
Management and Organizational Behavior
3
QMB 6005
Quantitative Methods for Business
3
Total Hours
18

Second Level
ECP 6705
Advanced Managerial Economics
3
FIN 6406
Financial Management
3
MAN 6511
Operations Management Problems
3
MAR 6815
Marketing Management
3
Total Hours
12

Third Level
MAN 6721
Strategic Management and Policy Formulation
3

Certificates

Graduate Business Foundations Certificate
Department: MBA
Semester Hours: 12
The University of West Florida’s (UWF) Graduate Business Foundations Certificate Program offers both online and onsite business foundation courses for participants interested in developing or renewing skills and knowledge in basic business foundations. The program primarily targets working professionals with non-business undergraduate degrees who desire formal business education to support existing or anticipated responsibilities in their career tracks. The Graduate Business Foundations Certificate also provides the foundation for further graduate study in business and administration.

Depending on the options chosen, a participant can complete many of the foundational courses necessary to enter the Master of Business Administration (MBA) Program or apply the courses toward the Master of Science in Administration (MSA) Program.

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

GEB 5870
MBA Foundations: e-Business Systems
1.5
GEB 5871
MBA Foundations: Managerial Economics
1.5
GEB 5872
MBA Foundations: Financial Management I
1.5
GEB 5873
MBA Foundations: Financial Management II
1.5
GEB 5874
MBA Foundations: Financial Management III
1.5
GEB 5875
MBA Foundations: Management Skills and Applications
1.5
GEB 5876
MBA Foundations: Marketing Management
1.5
GEB 5879
MBA Foundations: Business Analysis
1.5
Total Hours
12
(Additional courses may be added or substituted to meet specific needs of organizations and/or programs for which the certificate is delivered under agreement with the College of Business.)

Entrepreneurship Certificate
Department: MBA
Semester Hours: 18
The certificate program engages participants in the processes necessary to convert business ideas into well-structured plans for new business ventures. Participants will develop and present new venture ideas, develop a comprehensive new venture business plan, participate in a business plan competition for financial prizes, and consult with area small businesses to develop solutions to real business problems.

Business Foundations:
GEB 5871
MBA Foundations: Managerial Economics
1.5
GEB 5872
MBA Foundations: Financial Management I
1.5
GEB 5873
MBA Foundations: Financial Management II
1.5
GEB 5874
MBA Foundations: Financial Management III
1.5
GEB 5875
MBA Foundations: Management Skills and Applications
1.5
GEB 5876
MBA Foundations: Marketing Management
1.5
Total Hours
9

New Venture:
GEB 6118
New Ventures
3
GEB 6116
Venture Development
3
MAN 5806C
Small Business Management Consulting
3
Total Hours
9

College Student Affairs Administration
The College Student Affairs Administration (CSAA) program is designed for those students interested in a professional career in the various college and university student affairs and students 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 Dean of Students office, residence life facilities and programs, student union operations and management, student activities and campus programming, Greek affairs, recreation facilities and programs, orientation, admissions, academic advising, and career services.

## Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (https://nextcatalog.uwf.edu/graduate/admissions) 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

## 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

## CSAA Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDH 5040</td>
<td>The American College Student: Theories and Trends</td>
<td>3</td>
</tr>
<tr>
<td>EDH 5070</td>
<td>Assessment Issues in College Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6045</td>
<td>Theories of College Student Development</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6368</td>
<td>Multicultural Competence in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6369</td>
<td>Capstone Seminar in Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6405</td>
<td>Legal Issues in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6505</td>
<td>Budgeting, Finance, and Governance in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6634</td>
<td>Introduction to College Student Personnel</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6948</td>
<td>Internship in Higher Education (Course taken two times for 6th total)</td>
<td>6</td>
</tr>
<tr>
<td>SDS 6647</td>
<td>Foundations of Counseling Principles for Student Affairs Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6207</td>
<td>Advanced Communication Leadership</td>
</tr>
<tr>
<td>COM 6129</td>
<td>Assessing Organizational Dynamics</td>
</tr>
<tr>
<td>EDA 7217</td>
<td>Effective Communication Techniques</td>
</tr>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
</tr>
<tr>
<td>INP 6385</td>
<td>Group Dynamics in Organizations</td>
</tr>
<tr>
<td>MAN 5116</td>
<td>Management of Diversity</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
</tr>
<tr>
<td>SDS 6345</td>
<td>Educational and Vocational Guidance</td>
</tr>
</tbody>
</table>

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

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

Certificates

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5025</td>
<td>Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 6207</td>
<td>Advanced Communication Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COM 6204</td>
<td>Emerging Topics in Health Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6210</td>
<td>Emerging Topics in Nonprofit Organizational Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6211</td>
<td>Emerging Topics in Political Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6525</td>
<td>Strategic Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 6625</td>
<td>Emerging Topics in Communication Law and Ethics</td>
<td>1.5</td>
</tr>
<tr>
<td>JOU 6010</td>
<td>Emerging Topics in Media Issues</td>
<td>1.5</td>
</tr>
<tr>
<td>JOU 6115</td>
<td>Interviewing and Information Gathering</td>
<td>3</td>
</tr>
<tr>
<td>PUR 6408</td>
<td>Emerging Topics in Public Affairs</td>
<td>1.5</td>
</tr>
<tr>
<td>SPC 6646</td>
<td>Strategic Approaches to Presentational Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 4.5 semester hours from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6129</td>
<td>Assessing Organizational Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Community Health Education

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

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

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 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
  • Submission of three Recommendation Forms (http://uwf.edu/msaprogram/documents/HLES_Letter_of_Recommendation_Form.pdf) (PDF)
  • Work Experience as reflected in a résumé (only for graduate assistants)

Foundational Proficiencies

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

Aging Studies Specialization

The Specialization in Aging Studies is a degree designed to prepare graduate students for professional careers in the rapidly expanding field of aging. The program addresses the needs of students from a variety of academic backgrounds. Either a thesis or an internship is required.
Major Electives
Choose three of the following (consult advisor):
- HLP 6905 Directed Study
- HLP 6922 Field Experience
- HSA 5115 Health Care Policy and Administration
- HSC 5506 Advanced Epidemiology
- PEP 5118 Aging and Physical Performance

*The department has identified some UWF undergraduate courses which may be used in this program with additional work and proper documentation required. Please contact your academic advisor for more information.

Total Hours 9

Internship or Thesis
Choose one of the following:
- HLP 6940 Internship
- HLP 6971 Thesis

Total Hours 6

Health Promotion And Worksite Wellness Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</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>HSA 6521</td>
<td>Critical Analysis of Health</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5037</td>
<td>Historical Foundations of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5602</td>
<td>Life, Illness and Death</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6587</td>
<td>Health Education Program Planning and Evaluation</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 24 sh from the courses listed below with at least three courses at the 6000 level:
- APK 6111C Advanced Exercise Physiology
- HLP 6922 Field Experience
- HLP 6940 Internship
- HLP 6971 Thesis
- HSA 6521 Critical Analysis of Health
- HSC 5135 Health Guidance
- HSC 5176 Nutrition and Lifestyle Counseling
- HSC 5552 Communicable and Degenerative Diseases
- HSC 6666 Health Education and Interactive Technology
- HSC 6667 Social Marketing in Health Education
- MAN 5116 Management of Diversity
- PET 5553 Advanced Exercise Testing and Prescription

*The department has identified some UWF undergraduate courses which may be used in this program with additional work and proper documentation required. Please contact your academic advisor for more information.

Total Hours 39

Psycho-Social Specialization

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</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>HSC 5037</td>
<td>Historical Foundations of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5506</td>
<td>Advanced Epidemiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Computer Science Specialization

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

Database Systems Specialization

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6095</td>
<td>Software Engineering Practice and Tools</td>
<td>4</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>COP 6277</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in two consecutive semesters)</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 32

Software Engineering Specialization

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6064</td>
<td>Software Design</td>
<td>4</td>
</tr>
<tr>
<td>CEN 6095</td>
<td>Software Engineering Practice and Tools</td>
<td>4</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level advisor approved electives</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td></td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in consecutive semesters)</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 30

Certificates

Database Systems Certificate

Department: Computer Science

Method of Instruction: Online

Semester Hours: 12

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

Choose one of the following Programming prerequisites:

- COP 5007   Software Engineering Foundations: Java Programming    3
- COP 2253   Programming Using Java                               4
- COP 2334   Programming Using C++                               4
- CGS 3464   Programming Using Visual Basic for Non-Majors       3

Required course:

- COP 5725   Database Systems                                    3

Choose two of the following electives:

- COP 6277   Advanced Database Systems                          6
- CAP 5771   Data Mining                                        3
- COP 5775   Database Administration                            4

Total Hours: 12

Criminal Justice

The purpose of the program is to prepare students for careers in federal, state, county, and local criminal justice agencies, including management and administration; careers in public or private criminal justice research and analysis; teaching positions at community and state colleges; and/or continued education at the doctoral level.

The Master of Science in Criminal Justice (MSCJ) has two options: a coursework option (Option 1) and an area research paper option (Option 2). Each option requires a minimum of 33 credit hours, including 24 credit hours of criminal justice coursework. The
coursework-only option (Option 1) requires 15 credit hours of required coursework plus an additional 9 credit hours minimum of criminal justice electives and 9 credit hours of criminal justice or non-criminal justice electives. The area research paper option (Option 2) requires 15 credit hours of required coursework plus an additional 9 credit hours of criminal justice electives, a 3-credit hour paper completed in consultation with a faculty advisor and 6 additional credit hours in either criminal justice or non-criminal justice electives.

The program also offers four optional concentrations from which students may choose: Social Work; Public Administration; Education; and Homeland Security. Social Work, Public Administration, and Education concentrations are completed using the nine hours of graduate-level unrestricted electives in the concentration field. The Homeland Security Concentration is completed using the nine hours of unrestricted electives and three hours of criminal justice electives in designated graduate-level Homeland Security classes. The concentrations allow the students in the program to more specifically tailor the degree to their academic and career interests.

An accelerated bachelor’s to master’s program is available for exceptionally well qualified students. Please see the requirements for this program in the Undergraduate Criminal Justice Program (http://catalog.uwf.edu/undergraduate/criminaljustice).

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 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>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 5006</td>
</tr>
<tr>
<td>CCJ 5008</td>
</tr>
<tr>
<td>CCJ 6061</td>
</tr>
<tr>
<td>CCJ 6704</td>
</tr>
<tr>
<td>CCJ 6705</td>
</tr>
</tbody>
</table>

One of the following options: 18

Option 1

<table>
<thead>
<tr>
<th>Three CCJ Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three Unrestricted Electives</td>
</tr>
</tbody>
</table>

Option 2

<table>
<thead>
<tr>
<th>CCJ 6910</th>
<th>Criminal Justice Area Paper</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three CCJ Electives</td>
<td></td>
</tr>
</tbody>
</table>

Two Unrestricted Electives

Total Hours 33

Curriculum and Instruction

Although students earning the M.Ed. in Curriculum and Instruction may complete courses in more than one specialization, only one degree will be awarded. Students may choose from four specializations: Elementary Education Comprehensive; Middle Level Education Comprehensive; Primary Education Comprehensive; and Secondary Education Comprehensive. For each of the above specializations, students will also choose a cognate area in conjunction with an advisor. The M.Ed. in Curriculum and Instruction offers eight pre-approved cognates: Primary; Elementary; Middle-level; Secondary; Career & Technical; Instructional Technology; ESOL; and Reading Endorsement. Course requirements for each cognate are listed below.

Students 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

To be fully admitted to the program, the following requirements must be met in addition to the requirements for provisional admission (above). Full admission is required by the fifth week of the first semester. Students will be unable to register for a second semester of coursework until full admission has been granted.

- Purchase and activation of a subscription to the School of Education’s assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20

* Applicants pursuing the Primary Education specialization and planning to work in an agency setting rather than teach are not required to hold or be seeking current professional teacher certification.
** Applicants who do not meet the GPA requirement but submit a
desired current GRE verbal or MAT score at or above the 50th
percentile and meet all remaining admission requirements may be
conditionally admitted to the program.

All approvals for admission to the School of Education are subject
to reevaluation as students progress through the program. Students
denied admission or removed from the program may appeal the
decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles
of Professional Conduct for the Education Profession in Florida
and national standards of conduct associated with professional,
accreditation, and state agencies. Students who are struggling to
meet content and/or disposition standards and/or competencies may
be referred to the Culture of Achievement through System of Tiered
support (CAST) process. Any student who is referred to the CAST
process and does not successfully complete the process may be
denied continued enrollment in any professional education program.

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

Elementary Education Comprehensive Specialization

The Curriculum and Instruction Comprehensive Master's Program is part of the
CAEP accredited Professional Education Unit but is not an initial certification
program. While students may use the course work completed to apply
for initial teacher certification, students who are seeking certification
are responsible for referring to the appropriate school district or state
Department of Education to determine the specific requirements for
teacher certification. 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.

School of Education Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6521</td>
<td>Practical Applications and Issues in Classroom Management: Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6482</td>
<td>Research Practicum (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDE 6911</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Cognate Coursework

Students must complete at least 15 semester hours of coursework in an approved cognate. There are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education. See the cognate list at the bottom of the page for pre-approved cognates.

Middle Level Education Comprehensive Specialization

The Curriculum and Instruction Comprehensive Master's Program is part of the
CAEP accredited Professional Education Unit but is not an initial certification
program. While students may use the course work completed to apply
for initial teacher certification, students who are seeking certification
are responsible for referring to the appropriate school district or state
Department of Education to determine specific requirements for
teacher certification. This 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</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
<td>3</td>
</tr>
<tr>
<td>EDM 6411</td>
<td>Practical Applications and Issues in Classroom Management: Middle Level Education</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDM 6912</td>
<td>Research Practicum (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDM 6911</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Cognate Coursework

Students must complete at least 15 semester hours of coursework in an approved cognate. There are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education. See the cognate list at the bottom of the page for pre-approved cognates.

Primary Education Comprehensive Specialization

The Curriculum and Instruction Comprehensive Master’s Program is part of the CAEP accredited Professional Education Unit but is not an initial certification
program. While students may use the course work completed to apply
for initial teacher certification, students who are seeking certification
are responsible for referring to the appropriate school district or state
Department of Education to determine specific requirements for
teacher certification. This specialization is designed to develop master
teachers who will be prepared for instructional and leadership roles in
primary education. An action research project is required as the
capstone experience of the program.
Required Core

EDF 6691  Issues in Teacher Education: A Bio-Psycho-Social Understanding  3
EEC 6305  Practical Applications and Issues in Classroom Management: Primary Education  3
EEX 6051  Exceptionalities  3
EEX 6225  Assessment of Exceptional Children  3

Total Hours 12

Educational Investigative Sequence

EDG 5366  Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)  3
EDE 6482  Research Practicum (should be taken during the second-to-last semester)  3
EDE 6911  Action Research (should be taken during the last semester)  3

Total Hours 9

Cognate Coursework

Students must complete at least 15 semester hours of coursework in an approved cognate. There are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education. See the cognate list at the bottom of the page for pre-approved cognates.

Cognate List

Students must complete at least 15 hours of coursework in an approved cognate. The following are pre-approved cognates, but additional cognates may be approved by the director.

Career and Technical Cognate

ECT 5266  Administration and Supervision of Career and Technical Education Programs  3
ECT 5295  Curriculum and Staff Development for Career and Technical Education Programs  3
ECW 5265  Coordination and Management of Cooperative Career and Technical Education Program  3
ECW 6561  Selection and Guidance of Career and Technical Studies  3
Choose one of the following:  3
ECT 6669  Trends and Issues in Career and Technical Education
ECW 6995  School Involvement and Community Relations

Total Hours 15

Elementary Education Cognate

EDE 6206  Integrated Curriculum and Instruction/Elementary Education  3
Choose four from the following:  12
EME 6316C  Instructional Management and Technology
LAE 5345  Teaching Pupils to be Effective Writers
LAE 5468  Literature for Children and Young Adults
MAE 6115C  Teaching Mathematics in Elementary Education
RED 6116  Foundations of Early Literacy
SCE 6017  Science Instruction in the Elementary School
TSL 5085  ESOL Principles and Practices
NASA/US Satellite Courses
Advisor approved elective

Total Hours 15

Instructional Technology Cognate

EME 5355  Instructional Design for HPT  1.5
EME 6316C  Instructional Management and Technology  3
EME 6358  Evaluation for MSA Professionals  1.5
EME 6408  Integrated Technology Learning Environments  3
EME 6414C  Web-Based Instructional Tools for Educators  3
EME 6415  Designing Instructional Courseware  3
EME 6946  Field Experiences in Instructional and Performance Technology (Will replace Action Research in the core)  3

Total Hours 18

Middle Level Education Cognate

EDM 6235  Integrated Curriculum and Instruction/Middle Level Education  3
Choose four of the following:  12
EME 6316C  Instructional Management and Technology
LAE 5468  Literature for Children and Young Adults

Total Hours 15
MAE 5658  Mathematics for the 21st Century
MAE 6361  Teaching Mathematics in Middle Level and Secondary Education
RED 6116  Foundations of Early Literacy
SCE 6265  Science Instruction in the Middle and Secondary School
SSE 6326  Teaching Social Studies in Middle and Secondary Level Education
TSL 5085  ESOL Principles and Practices
NASA/US Satellite Courses
Advisor approved elective

Total Hours 15

Primary Education Cognate
EEC 6263  Integrated Curriculum Development and Instruction/Early Childhood Education 3
EEX 6205  Typical and Atypical Development (Birth-5) 3
EEX 6455  Program Development for PreK Disabilities 3
EEX 6707  Assessment for Early Intervention for PreK Disabilities 3
EEX 6732  Parent-Teacher Team and Agencies for PreK Disabilities 3

Total Hours 15

Reading Endorsement Cognate
RED 5515  Classroom Reading Assessments (Spring) 3
RED 6060  Foundations of Middle and Secondary Literacy (Fall) 3
RED 6116  Foundations of Early Literacy (Fall) 3
RED 6240  Differentiating Instruction (Spring) 3
RED 6866  Practicum in the Clinical Teaching of Reading (Summer) 3

Total Hours 15

Secondary Education Cognate
ESE 6217  Integrated Curriculum and Instruction/Secondary Education 3
Choose four of the following: 12
EME 6316C  Instructional Management and Technology
LAE 5468  Literature for Children and Young Adults
MAE 5658  Mathematics for the 21st Century
MAE 6361  Teaching Mathematics in Middle Level and Secondary Education
RED 6116  Foundations of Early Literacy
SCE 6265  Science Instruction in the Middle and Secondary School
SSE 6326  Teaching Social Studies in Middle and Secondary Level Education
TSL 5085  ESOL Principles and Practices
NASA/US Satellite Courses
Advisor approved elective

Total Hours 15

ESOL Cognate
TSL 5142  ESOL Curriculum and Materials Development 3
TSL 5250  Applied Linguistics 3
TSL 5345  Methods of Teaching ESOL 3
TSL 5440  Testing and Evaluation 3
TSL 5525  Cross Cultural Communication and Understanding 3

Total Hours 15

Certificates

Teacher Ready Certificate
Department: Teacher Education
Method of Instruction: Online
Semester Hours: 12 (accepted into UWF’s C&I Master’s Program)
Tuition & Fees: $4500.00 (Tuition only, no fees)
Contact: teacherready.org (http://www.teacherready.org)
TeacherReady® is a 9-month online teacher certification program that leads to a Florida Professional Teaching Certificate upon completion. TeacherReady® is state approved and is the Educator Preparation Institute of the CAEP accredited Professional Education Unit at the University of West Florida. This revolutionary program includes eight lessons focusing on educational pedagogy and field experiences allowing for flexibility in scheduling, participation, and completion. TeacherReady® serves students worldwide creating teachers of excellence for tomorrow’s classrooms.

Lesson 1: Managing and Engaging Students to Learn
Lesson 2: Alignment of Common Core Standards and Learning Targets
Lesson 3: Learning Tasks and Feedback Strategies
Lesson 4: Summative Assessment Tools
Lesson 5: Student Engagement with Special Populations
Lesson 6: Student Engagement and Literacy
Lesson 7: Student Engagement and STEM
Lesson 8: Culminating Field Experience

Educational Leadership

Educational Leadership Certification Specialization

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building 85, Room 166</td>
<td>850.474.2870</td>
<td>uwf.edu/education/</td>
<td><a href="mailto:soegrad@uwf.edu">soegrad@uwf.edu</a></td>
</tr>
</tbody>
</table>

ETMS Specializations

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building 70, Room 143</td>
<td>(850) 474-2300</td>
<td>uwf.edu/ect/</td>
<td><a href="mailto:ect@uwf.edu">ect@uwf.edu</a></td>
</tr>
</tbody>
</table>

Admission Requirements for Certification Specialization

In addition to the University graduate admission requirements described in the Admissions section (p. 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
• Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program. Specific academic requirements will be established by the School of Education and monitored by the Graduate School (see Conditional Admission (http://catalog.uwf.edu/graduate/admissions/admissionpolicies/#conditionaladmission160) in the Admissions section (http://catalog.uwf.edu/graduate/admissions) of the catalog).

To be fully admitted to the program, the following requirements must be met in addition to the requirements for provisional admission (above). Full admission is required by the fifth week of the first semester. Students will be unable to register for a second semester of coursework until full admission has been granted.

• Purchase and activation of a subscription to the School of Education’s assessment system, Tk20, within the first week of the first semester
• Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
• Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20

All approvals for admission to the School of Education are subject to reevaluation as students progress through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

Admission Requirements for ETMS Specializations

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 preparation

Degree Requirements

In addition to general University requirements, students seeking the M.Ed. in Educational Leadership must meet the requirements listed below.

• Be admitted to the program
• Complete degree requirements compliant with the time-to-degree policy
• Be recommended for graduation by the Department
• Successfully complete any additional requirements of the selected specialization

Educational Leadership Certification Specialization

The Educational Leadership Certification Specialization, approved by the Florida Department of Education, is designed for students who wish to prepare for administrative and supervisory positions such as principal, assistant principal, district supervisor, in-service director, curriculum developer, or dean in public and private elementary and secondary schools. The specialization covers the ten Florida Principal Leadership Standards and associated competencies and seeks to prepare students for the Florida Educational Leadership Exam (FELE). Passing scores on the FELE are required prior to graduation.

Students in the Educational Leadership Certification Specialization who do not hold current professional teacher certification must meet the following additional requirements:

• ESOL/ELL Requirement. Options for satisfying this requirement include:
  • Sixty hours of ESOL district inservice points; or
  • Three credit hours in a survey course, which can be satisfied by completing TSL 5085
• Florida Reading Competency 2

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues.

Major Requirements

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

<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>3</td>
</tr>
<tr>
<td>EME 6317</td>
<td>Instructional Technology for Educational Leaders</td>
<td>3</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>Elective (with adviser approval)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 33
Graduate Degrees and Areas of Specialization

Education & Training Management Specialization (ETMS)

The 36 semester hour specialization is designed for military officers and others interested in working in training in the military, business, and industry. It is offered through an inter-institutional agreement with George Mason University, George Washington University, University of Memphis, Old Dominion University, San Diego State University, and the University of Rhode Island. Interested individuals should contact the Department of Applied Science, Technology and Administration or the educational officer at their base for the competency areas and designated courses offered through UWF.

Students must complete either an action research project, thesis, or take a comprehensive exam and additional course work to reach 36 hours of credit.

Students and advisors must select courses with care to ensure that
1. prerequisite requirements are met and
2. a minimum of 15 sh at the 6000-level or above are completed.

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

Students not seeking the Navy’s ETMS certification should contact their advisor if other electives are desired.

Choose one course in each of the following ten areas (30 sh)

Basic Management Principles

Choose one of the following:
- EME 6426 HPT Interventions 3
- GEB 5875 MBA Foundations: Management Skills and Applications 1.5
- PAD 5107 Modern Public Organization Theory 3
- PAD 5434 Leadership 3
- PAD 6053 Public Administration Professional 3

Education and Training Organization/Operation

Choose one of the following:
- EDA 5191 Leadership in Education: School Improvement Theory and Practice 3
- EME 6409 Distance Learning Implementation 3
- EME 6427 Implementing HPT Interventions 3
- GEB 5870 MBA Foundations: e-Business Systems 1.5
- Advisor approved course 1.5

Planning, Programming, Statistical, and Budgeting Systems

Choose one of the following:
- EME 6628 Contract Administration: Large Scale Instructional Technology Systems 3
- PAD 6227 Public Budgeting 3

Principles and Applications of Instructional Systems Development

Choose one of the following:
- EDG 5250 Principles of Curriculum Development 3
- EDG 5332 Principles of Instructional Design & Product Development 3
- EME 5355 Instructional Design for HPT 1.5
- EME 6415 Designing Instructional Courseware 3

Personnel/Manpower Management

Choose one of the following:
- EDA 5191 Leadership in Education: School Improvement Theory and Practice 3
- EDA 6222 Administration of School Personnel 2-3
- MAN 6156 Management and Organizational Behavior 3
- PAD 6417 Public Service Human Resource Management 3

Education/Training Psychology

Choose one of the following:
- EDF 6218 Psychological Foundations for Education: Learning and Instruction 3
- EME 6936 Seminar in HPT Issues: Human-Computer Interaction 1.5
- Advisor approved course 1.5

Education/Training Research and Development Processes, Policies, and Procedures

Choose one of the following:
- EDF 6481 Educational Research 3
- EME 6428 Evaluating HPT Interventions 3
- PAD 6706 Public Administration Research Methods 3
- or EME 6357 Instrument Design for Performance Technology and Evaluation for MSA Professionals 3

Application of Computer and Web-Based Technology to Education

Choose one of the following:
- EME 6316C Instructional Management and Technology 3
- EME 6414C Web-Based Instructional Tools for Educators 3
- EME 6415 Designing Instructional Courseware 3
- EME 6458 Distance Learning Policy and Planning 3

Contract Administration

Choose one of the following:
- PAD 5605 Administrative Law 3
- PAD 6275 Political Economy of Public Administration 3

Existing and Conceptual Systems

Choose one of the following:
- EDA 6061 Educational Organization and Administration 3
- EDG 6335 Advanced Instructional Design & Product Development 3
- EME 6408 Integrated Technology Learning Environments 3
- EME 6428 Evaluating HPT Interventions 3

Thesis, Action Research, or Additional Course Work & Comprehensive Exam (6 sh)

Choose one of the following:
- Thesis in area of concentration 6
- Additional Courses AND Comprehensive Examination
- Action Research in area of concentration
ETMS - Instructional Technology Specialization

Students from schools, community colleges, business and industry, and the military interested in the application of instructional technology for education and training can select the Instructional Technology emphasis within the ETMS program. The option emphasizes emerging technology applications such as web-based instruction, multimedia design, and distance learning with a strong focus on instructional systems design, planning, and change.

ETMS Professional Core (12 sh)

- EDF 6218 Psychological Foundations for Education: Learning and Instruction 3
- EDF 6404 Educational Statistics I 3
- EDF 6481 Educational Research 3
- EDF 6602 Trends and Issues in Education: Social, Multicultural, Historical and Philosophical Analysis 3

Total Hours 12

Specialization Courses (24 sh)

Instructional Technology Courses

- EDG 5332 Principles of Instructional Design & Product Development 3
- EME 6316C Instructional Management and Technology 3
- EME 6408 Integrated Technology Learning Environments 3
- EME 6607 Instructional Technology Planning and Change (Course offered 1-5 sh per semester) 3

Total Hours 12

Production Courses

- EME 6414C Web-Based Instructional Tools for Educators 3
- EME 6458 Distance Learning Policy and Planning 3

Advisor approved production course 3

Total Hours 9

Telecommunications Course

- EME 6409 Distance Learning Implementation 3

Technology Showcase (0 sh)

During the last semester of enrollment, students will participate in a technology showcase scheduled by the department chairperson.

ETMS - Human Performance Technology Specialization

Organizations have recognized that the key to their success lies in their ability to set a mission and implement it in the most cost-effective means available. If a unit within the organization is not operating at the level required to complete the mission, a strategy for meeting the performance needs must be identified. Human Performance Consultants are increasingly called upon to analyze and recommend solutions to performance problems. They recommend a wide range of solutions including training, changing employee incentive systems, redesigning the work environment, or implementing new technology, for example. Human Performance Technology (HPT) is implemented in many types of organizations, including commercial enterprises, governmental agencies, and the military. In the HPT specialization, students develop proficiency in resolving performance problems in military, business and industry, and educational systems.

ETMS Professional Core (12 sh)

- EDF 6218 Psychological Foundations for Education: Learning and Instruction 3
- EDF 6404 Educational Statistics I 3
- EDF 6481 Educational Research 3
- EDF 6602 Trends and Issues in Education: Social, Multicultural, Historical and Philosophical Analysis 3

Total Hours 12

Specialization Courses (18 sh)

- EME 6407 Integrated Technology Learning Environments 3
- EME 6426 HPT Interventions 3
- EME 6427 Implementing HPT Interventions 3
- EME 6429 Human Performance Improvement 3
- EME 6628 Contract Administration; Large Scale Instructional Technology Systems 3

Total Hours 18

Electives (6 sh)

Choose from the following:

- EME 6428 Evaluating HPT Interventions 3
- Additional Advisor-Approved Elective 3

Total Hours 6

Final Project (0 sh)

Complete a Final Project, approved by the program advisor, which encompasses theories and applications of HPT.

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 new 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 course work, 18 semester hours of which must be in courses at the 6000 level. No more than three semester hours at the 4000 level may be approved as part of the program if they are annotated for graduate credit and are assigned to one of the blocks below.

Students completing 18 semester hours of course work at the 6000 level with a grade point average of 3.5 or above are eligible for the thesis track. Students lacking the grade point average minimum may petition the chair of the department to be allowed to pursue the thesis track. Students petitioning the department chair for entrance to the thesis track must demonstrate reading competency in one foreign language. This competency may be demonstrated in one of two ways:

1) Students pass a reading knowledge examination designed and administered by the department. Such an exam would ask students to demonstrate a clear understanding of a page from a text in a language other than English in two hours. Those taking the examination would be able to use an English/X dictionary.

2) Students unable to pass the reading knowledge examination would then have the option to fulfill the reading knowledge requirement by taking a course focused on reading knowledge in a language other than English at UWF. Students must complete the course with a grade of "B" or higher to complete the reading knowledge requirement.

American Sign Language, Old English, and ancient Greek would not be acceptable languages to meet this requirement. Foreign language credits cannot be used to fulfill M.A. degree requirements.

Creative Writing Specialization

Graduate English Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 5009</td>
<td>Introduction to Advanced Literary Study</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6018</td>
<td>History of Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6971</td>
<td>Thesis (By approval only. Course offered 1-6 sh per semester; 3 sh required)</td>
<td>3-6</td>
</tr>
<tr>
<td>Advisor approved electives (6 sh required)</td>
<td>12</td>
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Choose four from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CRW 6130</td>
<td>Workshop in Fiction Writing</td>
</tr>
<tr>
<td>CRW 6236</td>
<td>Workshop in Creative Non-Fiction Writing</td>
</tr>
<tr>
<td>CRW 6331</td>
<td>Workshop in Poetry Writing</td>
</tr>
<tr>
<td>CRW 6806</td>
<td>Workshop in Teaching Creative Writing</td>
</tr>
<tr>
<td>CRW 6934</td>
<td>Special Topics in Creative Writing</td>
</tr>
</tbody>
</table>

Choose 12 sh from three of the following four blocks:

<table>
<thead>
<tr>
<th>Block</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>BLOCK I</td>
<td>ENL 6297 Topics in British Literature to the Romantics</td>
</tr>
<tr>
<td>BLOCK II</td>
<td>ENL 6298 Topics in British Literature from the Romantics to Present</td>
</tr>
<tr>
<td>BLOCK III</td>
<td>AML 6455 Topics in American Literature</td>
</tr>
<tr>
<td>BLOCK IV</td>
<td>ENC 5945 English Internship</td>
</tr>
<tr>
<td></td>
<td>LIT 5018 Topics in Fiction</td>
</tr>
</tbody>
</table>
requirements for regular admission:
applicant must meet the following minimum departmental admission

described in the Admissions section (p. 10) of the catalog, the
In addition to the University graduate admission requirements, students seeking the
M.S. in Environmental Science must meet the requirements listed
below.

**Foundational Proficiencies**

- A college-level course in chemistry
- Two upper-level science courses in the geo-, earth, or environmental sciences
- Two upper-level techniques courses (e.g., GIS, aerial photo interpretation, remote sensing, field methods, analytical chemistry, instrumental analysis, etc.)
- An upper-level course in statistics or quantitative methods

Students without the equivalents of any of the above courses will be advised to enroll in a suite of appropriate foundational courses prior to being considered for admittance to the M.S. program. Students having some of the foundational proficiencies may be admitted to the M.S. program with the understanding that the missing courses be taken during the first year of graduate study.

Of the foundational proficiencies, only statistics (GEO 5165 Geostatistics or STA 5176 Statistical Modeling) may be taken for graduate credit and be included in the graduate program of study.

**Degree Requirements**

Students accepted into the M.S. program should select, ideally by the end of their first semester, their graduate advisor and graduate committee members. At least two committee members must be Environmental Studies faculty. Students also need to select the thesis or non-thesis track following consultation with their graduate advisor and committee. Detailed graduate guidelines will be provided to the students by the department.

**Environmental Science Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVR 6930</td>
<td>Special Topics in Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6936</td>
<td>Graduate Seminar</td>
<td>3</td>
</tr>
<tr>
<td>EVS 6196C</td>
<td>Sampling and Analysis in Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td>3</td>
</tr>
</tbody>
</table>

**Choose one 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 in consultation with the student and the student’s graduate committee.

GEO 6118 Research Design 3
Choose one of the following: 3
  • EVS 6940 Internship
  • GEO 6905 Directed Study
Advisor-approved graduate course work 21
Total Hours 27

Certificates

Geographic Information Science Certificate

Department: Environmental Science

Semester Hours: 24

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 24-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 GIS Certificate 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 an upper level undergraduate class from a regionally accredited institution.

GIS Graduate Certificate Program:

• Submission of Application for Admittance.

Online GIS Certificate Program:

• Submission of Online GIS Certificate Application.

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**
Students must also complete a cognate program of study of at least 15 semester hours. The pre-approved cognate area options are the following:

- Special Education
- Applied Behavior Analysis
- Exceptional and Alternative Educational Studies

Before graduating, students will be required to complete an action research project as a capstone experience. All required courses must be completed with a grade of "C" or higher.

School of Education Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Understanding</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6222</td>
<td>Practical Applications and Issues Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6225</td>
<td>Assessment of Exceptional Children</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>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>EEX 6340</td>
<td>Action Research (should be taken during the last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6945</td>
<td>Research Practicum in Special Education (should be taken during the second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Cognate Courses

Students must complete at least 15 semester hours of coursework in an approved cognate. The following are pre-approved cognates, but additional cognates may be approved by the director. Cognate courses will vary depending upon the student’s background and area of interest, including whether he or she has an undergraduate degree in education.

Special Education Cognate

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 5085</td>
<td>Integrating Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EEX 5283</td>
<td>Employment, Social, and Personal Skill Building for Exceptional Students (Certified teachers with a bachelor’s degree in education may replace EEX 5283 with an advisor-approved elective.)</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6035</td>
<td>Best Practices in Teaching Challenging Students</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6612</td>
<td>Behavior Management</td>
<td>3</td>
</tr>
<tr>
<td>Advisor-approved Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Exceptional and Alternative Educational Studies Cognate

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 5283</td>
<td>Employment, Social, and Personal Skill Building for Exceptional Students</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6035</td>
<td>Best Practices in Teaching Challenging Students</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6612</td>
<td>Behavior Management</td>
<td>3</td>
</tr>
<tr>
<td>Electives Chosen in Conjunction with an Advisor</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Exceptional 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. While students may use the course work completed to apply for initial teacher certification, students who are seeking certification are responsible for referring to the appropriate school district or state Department of Education to determine specific requirements for teacher certification. This program is designed to develop master teachers who will be prepared for instructional and leadership roles in special education.

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues. Students in this master’s degree program have 21 semester hours of required core courses as shown below.
Applied Behavior Analysis Cognate

EDF 6223 Positive Behavioral Change and System Support in 3
  Educational Settings
EDF 6225 Foundations of Applied Behavior Analysis in Education 3
EDF 6226 Behavioral Assessments, Interventions, and Outcomes in 3
  Education
EDF 6557 Ethics in Applied Behavior Analysis 3
EDF 7437 Measurement and Single Case Design 3
EDF 7944 Advanced Single Case Design in Applied Settings 3
Total Hours 18

Health, Leisure, and Exercise Science

The M.S. in Health, Leisure, and Exercise Science offers specializations in Exercise Science (39 sh) and Physical Education (33 sh). The Exercise Science Specialization emphasizes administration of adult fitness and graduate research, while the Physical Education Specialization emphasizes further study in teacher education.

Exercise Science 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
• Submission of three Recommendation Forms (http://uwf.edu/msaprogram/documents/HLES_Letter_of_Recommendation_Form.pdf) (PDF)
• Certifications (ACSM, NSCA, ACE, AFA)
• Work Experience as reflected in a résumé

Degree Requirements

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

Exercise Science Core

APK 6111C Advanced Exercise Physiology 3
HLP 6535 Research Procedures 3
HLP 6585 Research Seminar 3
PET 5052 Motor Learning 3
PET 5389C Physiological Basis of Strength Development 3
PET 5553 Advanced Exercise Testing and Prescription 3
Total Hours 18

Thesis or Internship

Students will choose one of the following tracks.

Thesis Track

HLP 6971 Thesis 6
Elective courses chosen from list below 12
Choose one of the following:
  STA 5166 Special Topics in Statistics
  STA 5206 Analysis of Variance
Total Hours 21

Internship Track

HLP 6940 Internship 6
Elective courses chosen from list below 15
Total Hours 21

Pre-approved Elective Courses

HLP 6922 Field Experience 1-3
HSC 5552 Communicable and Degenerative Diseases 3
PEP 5118 Aging and Physical Performance 3
PET 5216 Success in Sports 3
PET 5626 Rehabilitation of Athletic Injuries 3
PET 6074 Successful Aging: Physiological Aspects 3
PET 6905 Directed Study 3
*The department has identified some UWF undergraduate courses which may be used in this program with additional work and proper documentation required. Please contact your academic advisor for more information.

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
requirements for regular admission:
applicant must meet the following minimum departmental admission
described in the Admissions section (p. 10) of the catalog, the
In addition to the University graduate admission requirements
Admission Requirements
Certificate.
credentials. Contact the department for information concerning the
preservation and current practitioners in the field who wish to add a
individuals interested in acquiring a general focus in the field of historic
the completion of 18 sh at the master's level. It is geared towards
Students in the master's program may also earn a certificate in Historic
internship.
Aspects of Public (Applied) History and requires completion of an
paper. The Public History Specialization trains students in the various
history degree with the option of completing either a thesis or research
Plan B is designed for the student who prefers a wide range of studies
Undergraduate paper (undergraduate research paper
Plan A requires 33 sh of graduate history course work, including
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:

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

Physical Education (33 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6535</td>
<td>Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PET 5701</td>
<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 5702</td>
<td>Advanced Management of Physical Education Programs</td>
<td>3</td>
</tr>
<tr>
<td>PET 5708</td>
<td>Instructional Design in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 5709</td>
<td>Advanced Curriculum in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 5805</td>
<td>Analysis and Supervision in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6015</td>
<td>Professional Issues in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6706</td>
<td>Analysis of Research on Teaching in Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6707</td>
<td>Research on Physical Education/Teacher Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6940</td>
<td>Internship</td>
</tr>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
</tr>
</tbody>
</table>

Total Hours 33

History

The M.A. in History offers two specializations. The first is the traditional
history degree with the option of completing either a thesis or research
course. 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 CGPA for
all courses in the program. A student must apply for advancement to
candidacy upon completion of 15 sh. The thesis, research paper, or
internship advisor will then be appointed as the academic advisor.
A student must complete graduate work within five years. A student
may petition for 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.

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:
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 Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6055</td>
<td>Public History Methodology</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level European History elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level American History elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level Latin American/African/Asian/Ethnic elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Internship

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6056</td>
<td>Graduate History Practicum</td>
<td>6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Applied History/Non-History Electives

Choose three or four of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5077</td>
<td>Oral and Community History</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5087</td>
<td>Advanced Museology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 6083</td>
<td>Historic and Heritage Preservation Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5000/6000 Level Applied History Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9-12</td>
</tr>
</tbody>
</table>

Choose one or two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5172</td>
<td>Historical Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6192</td>
<td>Historic Preservation Law Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Policies, Practices and Archaeology in Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>ARH 5836</td>
<td>Museum and Gallery Studies</td>
<td>3</td>
</tr>
<tr>
<td>EVR 5413</td>
<td>Environmental Aspects of Urban Growth</td>
<td>3</td>
</tr>
<tr>
<td>EVR 6930</td>
<td>Special Topics in Environmental Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FIL 5038</td>
<td>History of Motion Pictures I</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5000/6000 level outside elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12-18

Certificates

Historic Preservation Certificate

Department: History

Method of Instruction: Classroom

Semester Hours: 18

The program is designed for those who are merely interested in historic preservation, those who are already practitioners in the field or wish to add credentials, or those who are contemplating possible degree certification but are not yet ready to commit to a full-scale degree program. The program attempts to provide interdisciplinary graduate education in historic and cultural preservation, public history and archaeology, historical art and architecture, cultural resource management and museum administration.

Instructional Technology

Instructional Technology professionals provide critical assistance for national and international education and training initiatives in the 21st century. The M.Ed. in Instructional Technology prepares education, training, military, business and industry professionals to meet the challenges of complex problems from the perspective of education and training. Developing innovative solutions to organizational problems and providing for just-in-time support to employees and learners permits students to develop a variety of instructional technology-related skills. With the advent of the information explosion, industry, the military, and educational systems look for alternative and systematic strategies related to instructional technology and instructional systems. Students in the M.Ed. program select courses in a concentration area in addition to the program core requirements.

Graduates of the M.Ed. in Instructional Technology work in curricular, instructional, performance or distance environments, designing, producing, and evaluating instructional materials, and managing teams or technology projects.

Admission Requirements

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

Degree Requirements

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

To be eligible for an M.Ed. degree in Instructional Technology, a student must do the following:

- Complete degree requirements of at least 36 semester hours compliant with the time-to-degree policy
- Be recommended for graduation by the Department of Applied Science, Technology and Administration.
- Successfully complete the Capstone Experience (EME 6946).

Instructional Technology Core (15 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6218</td>
<td>Psychological Foundations for Education: Learning and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5332</td>
<td>Principles of Instructional Design &amp; Product Development</td>
<td>3</td>
</tr>
<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 6607</td>
<td>Instructional Technology Planning and Change</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

Concentration Area (Minimum 12 sh)

Students will select one of the following concentration areas:

Innovation (Minimum 12 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6408</td>
<td>Integrated Technology Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td>EME 2562</td>
<td>Creativity and Innovation in the Learning Organization</td>
<td>3</td>
</tr>
</tbody>
</table>

Advisor approved related course(s) 3-6

Distance Learning (Minimum 12 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Designing Instructional Courseware</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Advisor approved related course(s) 3-6

Total Hours: 9

Electives (3-6 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6426</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6427</td>
<td>HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6428</td>
<td>Evaluating HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6429</td>
<td>Human Performance Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EME 6458</td>
<td>Distance Learning Policy and Planning</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level elective approved by advisor</td>
<td>3-6</td>
<td></td>
</tr>
</tbody>
</table>

Capstone Experience (3-6 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6946</td>
<td>Field Experiences in Instructional and Performance Technology</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Certificates

Distance Learning Certificate

Department: Applied Science, Technology and Administration

Method of Instruction: Online

Semester Hours: 9

The Distance Learning Certificate facilitates a focused examination of practices involved in the design, development, implementation and evaluation of distance learning environments. This focus permits participants to develop skills that they need to work in those same environments. With the explosion of global distance learning opportunities, combined with the expertise of the UWF faculty, this certificate will frame the foundational skills needed for individuals to effectively and efficiently work in distance-based teaching and learning environments.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EME 5457</td>
<td>Distance Education Technologies</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Designing Instructional Courseware</td>
<td>3</td>
</tr>
<tr>
<td>EME 6626</td>
<td>Emerging and Innovative Technology Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 9

Human Performance Technology Certificate

Department: Applied Science, Technology and Administration

Method of Instruction: Online

Semester Hours: 12

The Human Performance Technology Certificate Program is a 12-hour online program, which explores the roles of Human Performance professionals in identifying and solving performance technologies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6429</td>
<td>Human Performance Improvement</td>
<td>3</td>
</tr>
<tr>
<td>EME 6426</td>
<td>HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6427</td>
<td>Implementing HPT Interventions</td>
<td>3</td>
</tr>
<tr>
<td>EME 6428</td>
<td>Evaluating HPT Interventions</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 12

Virtual Educator Certificate

Department: Applied Science, Technology and Administration

Method of Instruction: Online

Semester Hours: 9

The Virtual Educator Certificate facilitates a focused examination of practices involved in the virtual teaching and learning environment. Participants develop skills that they need to work with students, support systems, administrators, and experts in the virtual teaching environment. With the explosion of virtual education at all levels of education, this certificate prepares participants to be successful in a virtual environment.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
</tbody>
</table>
Mathematics

The M.S. in Mathematical Sciences offers students who hold a bachelor’s in mathematics, statistics, or related fields an opportunity to broaden their knowledge in several fields of mathematics, statistics, and their applications. The M.S. program is designed for students seeking careers in science, business, industry, or government; for students who want to teach in high schools or at the community college level; or for students who plan to pursue doctoral studies. The M.S. program offered by the Department of Mathematics and Statistics permits students considerable flexibility in choosing courses. For example, students who are seeking careers in financial/investment industries, banks, insurance companies, or government may choose more statistics courses that emphasize the use, adoption, and development of statistical methods and state-of-the-art computer technology in the analysis of data from problems in all fields of study.

Attendance Requirement for Online Students

For distance students to succeed in our hybrid distance learning program, it is very important that distance students attend live each lecture via Blackboard Collaborate. The strength of the online graduate program and students’ success depend on the live interaction between students and lecturers.

Admission Requirements

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

If an applicant does not meet the above requirements, they may be considered for conditional admission. Please contact the department for more information.

If a student has a graduate degree in any of the sciences, no GRE is required.

- The student will be admitted if the student has all required undergraduate proficiency courses.
- The student will be admitted provisionally subject to completing the required undergraduate proficiency courses.

With the approval from the department, a maximum of six credit hours may be transferred into the program.

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

Foundational Proficiencies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAS 3105</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 3162C</td>
<td>Applied Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Degree Requirements

The M.S. is offered with or without a thesis. In addition to general University requirements, students seeking the Master’s degree are required to maintain at least a 3.0 GPA in all University work undertaken in connection with the degree.

Each student must complete a minimum of 30 sh of approved course work. For the degree with thesis, 6 sh of 6000-level credit will be awarded for the thesis. For the degree without thesis, a proseminar (1 sh) is required in which the candidate will investigate and make an oral presentation of topics in mathematics or statistics. All candidates will take and pass comprehensive examinations covering the graduate core requirements.

A grade of C- or better is required in all courses.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS 5145</td>
<td>Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>STA 5326</td>
<td>Mathematical Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>Advisor approved 5/6000-level courses*</td>
<td>18-24</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours

24-30

Tracks

Students will choose one track.

Thesis Track

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>STA 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
</tbody>
</table>

Non-Thesis Track

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6930</td>
<td>Proseminar in Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>STA 6930</td>
<td>Proseminar in Statistics</td>
<td>1</td>
</tr>
<tr>
<td>Additional approved 5/6000-level courses</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours

7

*Other Requirements

Students completing a thesis will take an additional 18 sh of math/stat graduate courses approved by the department while non-thesis students will take an additional 24 sh of math/stat graduate courses approved by the department. A minimum of 15 sh must be at the 6000 level. Only two approved courses below the 5000 level may be included in the graduate program.

Total Hours

18-24

Medical Informatics Certificates

Medical Informatics Graduate Certificate

Department: School of Allied Health and Life Sciences

Method of Instruction: Online

Semester Hours: 12
Medical Informatics can be broadly defined as the use of computer technology to support clinical practice, administration, education, and research. The products developed in this field, “information resources”, involve the hardware and software that facilitates the storage, retrieval, and optimal use of medical information for problem-solving and decision-making. Please visit our website at http://www.uwf.edu/sahls/certificate-informatics/courses.cfm for updates on course requirements in this certificate program.

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 (https://nextcatalog.uwf.edu/
Administration Specialty (18sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<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>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Education Specialization

M.S.N. Core (21 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6002</td>
<td>Advanced Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6140</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6172</td>
<td>Advanced Pharmacology</td>
<td>3</td>
</tr>
<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>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Education Specialization (18 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6710</td>
<td>Nursing Education Seminar I</td>
<td>6</td>
</tr>
<tr>
<td>NGR 6715</td>
<td>Nursing Education Seminar II</td>
<td>6</td>
</tr>
<tr>
<td>NGR 6834</td>
<td>Nursing Education Evidence Based Project I</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6834L</td>
<td>Nursing Education Evidence Based Practice Project II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Political Science

The M.A. in Political Science is designed for students interested in advanced study in American politics, comparative politics, international relations, political economy, political theory, and public policy or administration. This degree is appropriate for students seeking several forms of employment, including, but not limited to local, state, or national government, international organizations, non-profits, education, military service, and security and diplomacy. It is also a beneficial stepping stone toward pursuit of a Ph.D. in Political Science.

The program consists of 33 semester hours (sh), plus successful completion of a comprehensive examination or a thesis. All new students should be advised initially by the department chairperson, Dr. Jocelyn Evans.

Online M.A. in Political Science

The Department of Government now offers fully online core coursework for the M.A. in Political Science program. By taking electives offered online, students can complete this program at a distance. Note this is a synchronous course delivery program, meaning that students are required to attend live lectures via Scopia, the University’s free video conferencing service. Through this format, students benefit from face-to-face interaction with other students and faculty in real time while also enjoying the flexibility of online course delivery. The strengths of the online graduate program and students’ success depend on these live interactions.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 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 to assess the potential success of each applicant:

- Graduate Record Examination (GRE) verbal and quantitative score or Miller Analogies Test (MAT) with a minimum score in each that ranks in the 50 percentile or better
- Undergraduate cumulative GPA of 3.0 or above
- Submission of a writing sample
- Submission of a resume
- Submission of two letters of reference with at least one from a former instructor

Degree Requirements

Political Science Core (21 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 6006</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>INR 6007</td>
<td>Seminar in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6275</td>
<td>Political Economy of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>POS 6006</td>
<td>The Study of Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6045</td>
<td>American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6704</td>
<td>Political Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>POT 5602</td>
<td>Modern Masters of Political Thought</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Tracks

Generalist Track (12 sh)

This track allows students to take 12 sh of elective credit, of which 6 sh may be earned by writing and successfully defending a thesis. Although open to any candidate, this track is primarily for students who wish to obtain a broad view of the discipline, either to satisfy their own curiosity or as a means to pursue careers in the government, the media, education, or the private sector. If they are looking to pursue a doctorate, they would be well advised to take the thesis option and another 6 sh of electives (which may be in a related discipline such as history, philosophy, economics or statistics). Non-thesis students take 12 sh of electives, of which 6 sh may be taken outside of the discipline. Non-political science credits require prior approval of the department chair. M.A. candidates may take up to two undergraduate courses for graduate credit, again with prior approval. Also, they may take a directed studies course to explore in greater depth an area of interest in Political Science. Completion of the degree requires a successful comprehensive exam or thesis defense.

- Advisor-approved comprehensive examination option (0 sh plus 12 sh of electives) or
- Advisor-approved thesis option (6 sh plus 6 sh of electives)

| **Total Hours** | **12** |

Public Administration Track (12 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 6053</td>
<td>Public Administration Professional</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>PAD elective with the permission of the Chair or track advisor</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Chair or advisor-approved PAD elective or other elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Advisor-approved comprehensive examination</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Security and Diplomacy Track (12 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR 5330</td>
<td>National Security Policy</td>
<td>3</td>
</tr>
<tr>
<td>INR 5365</td>
<td>Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>Choose two:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>INR 5206</td>
<td>Spying: Fact and Fiction</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Total Hours** | **12** |
Organizational. Students seeking to complete the M.A. degree in Psychology must meet the general University requirements, the School of Psychological and Behavioral Sciences 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 School of Psychological and Behavioral Sciences 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
- A completed departmental supplementary data form

Applicants can assume that their files are incomplete until they receive a notice from the School of Psychological and Behavioral Sciences indicating that files are complete.

The following are the minimum admission requirements:

- A bachelor’s degree in psychology (preferably) or a bachelor’s degree with the completion of at least general/introductory psychology, psychology research methods sequence, three semester hours of statistics, and a psychology course in the area of intended master’s emphasis. Any of these requirements may be waived if the student demonstrates competence in the area. Although a student may be admitted with deficiencies, the requirements must be fulfilled before the student is admitted to any 6000-level course. In addition, certain graduate courses have specific undergraduate prerequisites.

- If admitted, students who do not have an undergraduate degree in Psychology must have the specified prerequisites for all graduate courses. For example, these students need to complete Psychology of Learning (EXP 4404), or its equivalent, before taking Advanced Behavior Modification (EAB 5705).

- If admitted, students who have an undergraduate degree in Psychology are considered to have met the prerequisites for courses in the graduate core.

Non-Degree Students

The department may be petitioned to 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-degree-seeking-status) 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 6 sh may be at the 3000- or 4000-level. Usually these hours may NOT be in psychology, especially prerequisites to the graduate program. See the Use of Undergraduate Courses in a Master’s Program (http://catalog.uwf.edu/graduate/academicpolicies/grades/#useofundergradcreditinnamastersprogram) policy.
- Only with approval of the advisor and department chairperson may courses outside the Psychology Department (except required courses) be taken toward the total sh requirement.
- All students must complete PSY 6217 Research Design in Psychology; either STA 5206 Analysis of Variance or STA 5207 Applied Regression Analysis or STA 5166 Special Topics in Statistics and at least one course from each of the four core areas. All graduate students must receive a B- or higher in all graduate coursework.

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 director, 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 (12 sh)

Students must complete one course in each area as identified by their specialization.

| Biological Bases of Behavior Core-choose one of the following: | 3 |
| EXP 5208 | Advanced Sensation and Perception |
| PSB 5035 | Cognitive Neuroscience |
| Social Bases of Behavior Core-Choose one of the following: | 3 |
| PCO 6278 | Multicultural Counseling |
| SOP 6069 | Advanced Social Psychology |
| SOP 6669 | Advanced Organizational Psychology |
| Acquired Bases of Behavior Core-Choose one of the following: | 3 |
| EAB 5705 | Advanced Behavior Modification |
| EXP 6506 | Advanced Cognitive Psychology |

Individual Bases of Behavior Core-Choose one of the following: 3

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 SPBS Director 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 SPBS Director. This letter will detail the milestones that MUST be met by the end of the 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 School of Psychological and Behavioral Sciences. The terminal experience for students who choose this option will consist of three elements:

- Completing an empirical study and having an initial defense before the TeRP committee
- Making an oral presentation to the students and faculty of the Department and invited guests
• Preparing a manuscript intended for publication in a refereed academic journal

Applied Experimental Psychology Concentration

The Applied Experimental Specialization is designed for those students who wish to do graduate work with a focus on research and its application in areas of psychology such as biological psychology, cognitive neuroscience, cognitive psychology, developmental psychology, experimental psychology, health psychology, or human factors psychology. Graduates from the Applied Experimental Specialization are expected to matriculate into doctoral programs at major universities or find employment in community college teaching, research centers, public agencies, or industry.

The 36 sh curriculum provides coverage of the basic content areas of psychology (e.g., biological, cognitive, developmental, social), the research tools of psychology (e.g., research design, statistics), and in the student’s field of interest through electives, independent study, supervised research, and the thesis or terminal research project. Examples of areas of possible student specialization include behavior modification, biological psychology, cognitive neuroscience, developmental psychology, health psychology, human factors, sensation and perception, social psychology, and family science.

Concentration (18 sh)

DEP 5055 Developmental Psychology * 3
EXP 6506 Advanced Cognitive Psychology * 3
EXP 5208 Advanced Sensation and Perception * 3
PSB 5035 Cognitive Neuroscience * 3
SOP 6069 Advanced Social Psychology * 3
EXP 6085 Seminar in Applied Psychological Sciences * 3
Total Hours 18

* These AEP concentration courses also meet the Psychology Core requirements

Recommended Electives (6 sh)

EXP 5256 Human Factors Psychology 3
STA 5206 Analysis of Variance 3

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. Students must complete the core school requirements, take PCO 6216 Theories of Individual Counseling to meet the Individual Bases of Behavior portion of the core, and complete the following:

Concentration (15 sh)

PCO 6315 Assessment in Counseling 3
CLP 5166 Psychopathology 3
PCO 6246 Theories of Group Counseling 3
PCO 6206C Ethical and Professional Issues in Counseling 3
PCO 6204 Pre-Practicum: Techniques of Counseling and Psychotherapy 3
Total Hours 15

Application (9 sh)

PCO 6946 Practicum in Counseling 3
PCO 6948 Internship in Counseling 1-6
Total Hours 4-9

Elective (3 sh)

Licensure Courses (15 sh)

DEP 5055 Developmental Psychology 3
SOP 6776 Human Sexuality and Sex Therapy 3
SDS 6345 Educational and Vocational Guidance 3
PCO 6312 Substance Abuse Counseling 3
CYP 6005 Community Psychology 3
Total Hours 15

Industrial-Organizational Psychology Concentration

The 42 sh Industrial-Organizational (I/O) concentration combines traditional personnel psychology (selection, performance appraisal, test construction and validation, fair employment practices, and legal issues) with the more interpersonal emphasis of organizational psychology (motivation, job satisfaction, leadership, interpersonal communication, organizational diagnosis, and change). Students select electives that will help them gain proficiency in areas of emphasis such as Personnel Psychology, Human Factors, or Organizational Development. 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.

Concentration (11 sh)

INP 5087 Ethics in I/O Psychology 1
INP 6216 Personnel Selection and Appraisal 3
SOP 5609 Current Issues in Industrial-Organizational Psychology 1
SOP 6668 Organizational Change and Development 3
Choose one of the following: 3

INP 6397 Management and Organizational Behavior
SOP 6669 Advanced Organizational Psychology

Total Hours 11

Electives (10 sh)

Students must complete at least 10 semester hours of elective courses relevant to I/O and chosen in consultation with the advisor. Recommended electives include:
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 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 450 and Quantitative score of at least 550 or equivalent GRE
  - Graduate Management Admissions Test (GMAT) composite score of at least 465 or
  - Medical College Admission Test (MCAT) score of at least 25

- Possess basic computer competency

In addition, the student must submit:

- Statement of Career Goals, including the following:
  - motivation for earning an M.P.H. degree and how the student intends to use the M.P.H. degree upon graduation
  - research interests and past research experiences

- Two personal writing samples (e.g., written reports completed by the applicant or other representative samples of professional writing skills).

- Three letters of recommendation to the M.P.H. program

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.

Other admission criteria may apply, see below.

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.

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**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.

**Required Courses:**

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

**Elective Courses:**

- 2 of the following: 6
  - PCO 6312 Substance Abuse Counseling
  - PSY 4832 Sport and Exercise Psychology
  - ISC 5517 Buddhist Psychology
  - ISC 5517L Buddhist Psychology Lab
  - CYP 6005 Community Psychology
  - EXP 5256 Human Factors Psychology
  - PSY 5016 Conjunctive Psychology
  - PSY 5016L Conjunctive Psychology Laboratory

- 1 of the following: 3
  - HSC 5655 Theoretical Foundations of Health Care Ethics
  - HSA 5115 Health Care Policy and Administration
  - HSC 5506 Advanced Epidemiology
  - HSC 5716 Planning, Implementing, and Evaluating of Health Programs

**Total Hours:** 48

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**Public Health**

The M.P.H. provides students with a high quality, multidisciplinary perspective on public health to prepare them to be public health professionals. The M.P.H. degree is the most widely recognized professional credential for leadership in public health. The program core courses provide students with a background in environmental health, epidemiology, social and behavioral sciences, biostatistics, health services administration, and an internship in the public health/health care community. The required and elective courses offer students the opportunity to tailor their degree to best fit their career goals in public health. Public Health is a broad field that is open to students from diverse academic disciplines including health sciences, education, business, social and natural sciences, and others. This is a fully online program.
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.

Degree Requirements

Students must earn and maintain an average grade of “B” or better in the M.P.H. Program in order to remain in good standing within the program and in order to graduate from the program. Students must achieve no less than a grade of “C” in any course in the M.P.H. Program. All students admitted after fall 2011 must complete a minimum of 12 semester hours per year.

At the end of their academic program, all students are required to take and pass a Comprehensive Examination with a grade of 70% or better in each of the five core course and five required course domains. See uwf.edu/sahls for additional information. All students are required to satisfactorily complete a supervised Public Health Internship (6 sh) involving field experience in a public health-related area and to submit a written report on research conducted during this capstone experience and to defend the conclusions and recommendations included in their report. The internship course requirement will be met for students with appropriate professional experience or who are currently enrolled in a medical residency program or in the final two years of medical school. No more than 49% of the program requirements for the degree may be taken in traditional business subjects.

Students qualified to enroll in graduate studies but who do not have the required documents by the application deadline date, or those who do not intend to work toward a graduate degree, may complete up to 12 hours as non-degree seeking students. The Academic Learning Plan for programmatic assessment of the M.P.H. Program which includes Student Learning Outcomes, is available at uwf.edu/sahls. Some exams in this program require proctoring at testing sites approved by the course instructor.

Core Courses (21 sh)

All students seeking a Master of Public Health degree must take all of the following core courses:

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

Total Hours: 21

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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5123</td>
<td>Scientific Basis of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Study Design and Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Computer Applications in Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3</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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5102</td>
<td>Public Health (If not used as a required course)</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 (If not used as a required course.)</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 (If not chosen as a required course)</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5605</td>
<td>Legal Fundamentals of Healthcare and Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5197</td>
<td>Introduction to Medical Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5512</td>
<td>Health Care Quality and Database Management</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Introduction to Bioinformatics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5436</td>
<td>Health Economics</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>HSC 5655</td>
<td>Theoretical Foundations of Health Care Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5356</td>
<td>Fundamentals of Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5351</td>
<td>Occupational Safety and Health in the Health Care Environment</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5355</td>
<td>Fundamentals of Occupational Safety and Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Or advisor approved electives. Contact the department (850-474-2650) for a current list of approved electives.

Students from the Navy and Army Aerospace Medicine Residency Programs entering the M.P.H. will have different requirements, contact the program advisor for details.

Certificates

Public Health/Emergency Management (HEM) Certificate

Department: SAHLS

Method of Instruction: Online

Semester Hours: 9

Students will gain an understanding of disasters and their consequences with a focus on the role of the public health response. The principles of disaster planning, prevention, mitigation as well as the structure and organization of disaster response will be covered. Risk assessment, 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.
Public Health/Environmental Health (CEH) Certificate

Department: SAHLS

Method of Instruction: Online

Semester Hours: 12

This certificate is designed to prepare those working in public health, health care, and environmental sectors to deal with the plethora of environmental issues that impact human health.

- PHC 6300 Environmental Health (formerly Survey of Environmental Problems) 3
- PHC 6310 Environmental Toxicology 3
- PHC 6251 Disease Surveillance and Monitoring 3

Choose one:
- PHC 6005 Disease Transmission in the Urban Environment
- PHC 5351 Occupational Safety and Health in the Health Care Environment

Total Hours 9

Public Health/Infection Control (CIC) Certificate

Department: SAHLS

Method of Instruction: Online

Semester Hours: 12

This certificate is designed primarily for health care workers concerned with infectious disease transmission in the nosocomial environment.

Choose four of the following: 12

- 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: SAHLS

Semester Hours: 9

This certificate is designed to meet the needs of public health practitioners who have collateral responsibility for worker safety and health as well as those assigned primary responsibility. The student will gain a broad based foundation in occupational safety and health that enhances recognition, evaluation and control of workplace hazards. Management tools and skills are identified and explored that can be implemented in the public practice health practitioner’s work environment to bring about improvements in worker safety and health.

- PHC 5351 Occupational Safety and Health in the Health Care Environment 3
- PHC 5355 Fundamentals of Occupational Safety and Health 3
- PHC 5356 Fundamentals of Industrial Hygiene 3

Total Hours 9

Reading

The Reading Education Master’s Degree is an innovative, educational program that links literacy research to practical classroom practices. This 36-semester hour program is offered online, nationwide as an advanced degree program for credentialed teachers. The curriculum for the program is based on the International Reading Association standards which also encompass the Florida Department of Education Reading Endorsement and certification requirements. This advanced program requires several field experiences which may be arranged through the School of Education 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 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 CAEP 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 School of Education’s assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20

* Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program.

All approvals for admission to the School of Education are subject to reevaluation as students progress through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

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</th>
<th>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 5468</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>Practicum in the Clinical Teaching of Reading</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>RED 6911</td>
<td>Action Research: Reading</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>36</strong></td>
<td></td>
</tr>
</tbody>
</table>

Students must also successfully pass Florida Teacher Certification Examinations:

- General Knowledge
- Professional
- Subject Area
- Reading

Social Work

The M.S.W., accredited by the Council on Social Work Education, prepares students for ethical, competent, independent social work practice. The program focus is Clinical Community Practice with individuals, families, groups and communities. The M.S.W. program of study is designed to meet the course requirements of those students who wish to pursue a clinical social work license in Florida and to meet the diverse needs of the local community (e.g., rural, small town, metropolitan and economically disadvantaged service areas). The Department of Social Work currently has two specializations for the M.S.W. program, Regular and Advanced Standing.

The Traditional M.S.W. program is a 60 sh graduate level course of study which can be completed either full-time or part-time. The full-time program in social work is designed to be completed in five consecutive semesters. The part-time program in social work is designed to be completed in seven consecutive semesters. All full-time work should be completed in two years and all part-time work should be completed within a maximum of four years under unusual circumstances.

A one-year Advanced Standing option is available for those students who enter the program with a B.S.W. from a CSWE accredited program within seven years of graduation and meet the admission requirements. The advanced standing program is a 30 sh graduate level course of study which can be completed within three consecutive semesters.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 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 letter of intent written by the applicant
- Submission of three letters of recommendation from individuals familiar with the applicant’s ability to succeed in a graduate program
- Work experience as documented on the Social Work Supplemental Application

Traditional Specialization

Traditional Program Requirements

The foundation year is 30 semester hours (sh). It includes a professional core of 24 sh, one elective (3 sh), and a field placement (3 sh). The field placement is 300 hours of agency-based field work that complements the foundation year of study.

The concentration (advanced) year is 30 semester hours (sh). The concentration year of the program includes a professional core of 18 sh, three electives (9 sh), and two field placements (6 sh). The field placements are each 300 hours of agency field work that run consecutively beginning in fall through the end of spring semester.

Students must maintain a 3.0 GPA average in their graduate coursework. Students must satisfactorily complete field placement work to receive the M.S.W. degree. Students must complete their
M.S.W. program course work within five years of admission to the program.

**Degree Requirements**

**Foundation Curriculum (30 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>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>Social Work Research Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5532</td>
<td>Foundation Year Field Instruction and Integrative Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5629</td>
<td>Human Diversity and Social Justice</td>
<td>3</td>
</tr>
<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></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</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6618</td>
<td>Clinical Practice I</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</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></td>
<td>Electives in Advanced Clinical Practice</td>
<td></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.

**Advanced Curriculum (30 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6618</td>
<td>Clinical Practice I</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>
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<td>SOW 6619</td>
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</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>Electives in Advanced Clinical Practice</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Total Hours** 30

**Curriculum and Instruction**

The Ed.S. in Curriculum and Instruction is designed primarily for professionals who hold positions of leadership in education and training, social sciences, or the military. The purpose of the program is to develop curriculum-related content experts through advanced knowledge, contextualization, and requisite skills of individuals who work in a variety of leadership settings. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making and problem solving. Student backgrounds include, but are not limited to, public school personnel, community college and university personnel, social and health related personnel, and military personnel.

**Admission Requirements**

Admission to the Ed.S program is a selective process, therefore, meeting the minimum eligibility criteria stated below does not guarantee admission into the program. Applicants for the specialist program must meet all university and departmental admission requirements. Preference for admission will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study. Admission is made at the department level and thus there are university and divisional 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 GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals
- Overall fit with the program

Students are strongly encouraged to remain in close contact with the department advising coordinator as well as the program coordinator to ensure that all application materials are submitted in a timely manner.

**Foundational Proficiencies**

Foundational Proficiencies are not part of the degree program and should be completed prior to admission.
Degree Requirements

To be eligible for the Ed.S., a student must complete all requirements listed in the Graduation and General Degree Requirements (p. 43) 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 and must successfully complete a comprehensive examination.

Students will complete the 15 semester hour professional core and complete one of the 21 semester hour options. Within the option, students will select an area of emphasis. The Curriculum and Diversity Studies Specialization is housed in the Department of Research and Advanced Studies. The Instructional Technology Specialization is housed in the Department of Instructional and Performance Technology.

Capstone experiences are tailored to the student’s professional goals and may include internships such as EME6946, research design courses such as EME7938 or similar courses in the student’s area of specialization.

Program Requirements (36 sh)

Professional Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7407</td>
<td>Educational Statistics II: General Linear Model</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7685</td>
<td>Educational Foundations: A Philosophical and Multicultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7346</td>
<td>Advanced Analysis of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6316C</td>
<td>Instructional Management and Technology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Curriculum and Diversity Studies Option

Students must complete one of the following emphases in the Curriculum and Diversity Studies Option:

Advanced Studies Emphasis

Students will complete a specialization that focuses on the following areas:

1. critical, multicultural, and feminist pedagogical practices
2. social transformation and change
3. social and political issues in education
4. reform and activist movements
5. curriculum development and delivery strategies
6. educational and social science research and evaluation methods

Correctional Education and At-Risk Juvenile and Adult Populations Emphasis

This emphasis is designed for students who are currently in correctional education settings or anticipate future assessments working with at-risk juvenile and adult populations or administering programs in these areas.

Instructional Technology Option

Students must complete one of the following emphases in the Instructional Technology Option:

Performance Technology Emphasis

This option emphasizes theoretical and applied perspectives for considering how individual and organizational performance can be enhanced through the systematic use of innovative instructional technologies, training, feedback systems, and incentive systems.

Distance Learning Emphasis

Students learn how to design distance infrastructures, establish policy directives within organizations, support student performance, develop instructional materials, and implement distributed systems and portable media.

Educational Leadership

This program is designed primarily for professionals who hold positions of leadership in education or who aspire to provide educational leadership. The purpose of the program is to develop and enhance the functional capability of educational leaders. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making.

The degree is designed to meet the educational needs of regional place-bound, full-time employed professionals. Successful applicants should have experience in the field of education. The Ed.S. program will prepare professionals in the community to assume administrative and leadership positions.

The Florida Department of Education requires that all students graduating with a graduate degree in Educational Leadership must pass the Florida Educational Leadership Examination (FELE) as a condition of completing their degree and receiving certification for school administration.

Admission Requirements

Admission to the Ed.S. program is a selective process, therefore, meeting the minimum eligibility criteria stated below does not guarantee admission into the program in the School of Education. Applicants for the specialist program must meet all University and School of Education admission requirements. Preference for admission will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study.

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

- A desired minimum verbal and quantitative GRE or MAT score that falls above the 50th percentile.
- Submission of a writing sample that passes a faculty review. This writing sample should be the student’s previous “best” work demonstrating fluency, organization, and correct use of grammar.
- Contact information for two professional references.
- Master’s GPA.
• Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.

• Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference (the Graduate Advising Office will contact each professional reference with instructions).

All approvals for admission to the School of Education are subject to reevaluation as the student progresses through the program. Students denied admission or removed from the program may appeal the decision to the Dean, College of Professional Studies.

School of Education students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through System of Tiered support (CAST) process. Any student who is referred to the CAST process and does not successfully complete the process may be denied continued enrollment in any professional education program.

In addition to general University degree requirements, students seeking the Ed.S. in Educational Leadership must meet the requirements listed below.

**Foundational Proficiencies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Degree Requirements**

To be eligible for the Ed.S., a student must complete all requirements listed in the Graduation and General Degree Requirements (p. 43) section of this catalog along with the specific course requirements listed below. Students are required to receive at least a B- or above in all course work.

All students must complete a comprehensive examination prior to graduation.

**Program Requirements**

### Professional Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7407</td>
<td>Educational Statistics II: General Linear Model</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7685</td>
<td>Educational Foundations: A Philosophical and Multicultural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7346</td>
<td>Advanced Analysis of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Choose one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td>EME 6316C</td>
<td>Instructional Management and Technology</td>
<td></td>
</tr>
<tr>
<td>EME 6317</td>
<td>Instructional Technology for Educational Leaders *</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

* EME 6317 is required for students in the Certification Option.

---

### Educational Leadership Administrative Option

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 7217</td>
<td>Effective Communication Techniques</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7423</td>
<td>School Reform: Research to Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDA 7931</td>
<td>Seminar with High Performing Educational Leaders</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Electives (approved by program advisor and department chair)</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

### Educational Leadership Certification Option

In addition to completing required coursework, students in the Educational Leadership Certification Option must:

• Successfully complete the Florida Educational Leadership Exam (FELE)

• Students who do not hold a current valid teaching certificate must meet the following:

  - ESOL requirement of sixty hours of ESOL district in-service points or three credit hours in an ESOL survey course, such as TSL 5085

  - Florida Reading Competency II

• Purchase a subscription to the School of Education’s assessment system, Tk20, by the first week of the first semester

• Complete the Professional Education Applicant Disposition Scale in Tk20 by the fifth week of the first semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 5191</td>
<td>Leadership in Education: School Improvement Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6063</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6222</td>
<td>Administration of School Personnel</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6232</td>
<td>Law and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6240</td>
<td>Introduction to School Finance</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6285</td>
<td>Data Driven Decisions Using Standardized Student Achievement Data</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

### Doctoral Degree

The Doctor of Education in Curriculum and Instruction is designed to meet the educational needs of a wide variety of professionals with backgrounds that include, but are not limited to, education and training professionals; community college, state college, and university personnel; social and health related personnel; community civic leaders; and military personnel. The Ed.D. program prepares professionals to assume administrative, higher education, and other leadership positions. The successful candidate will conduct and evaluate applied research studies that emphasize local, regional, and state issues and problems within their respective fields.

The Ed.D. in Curriculum and Instruction offers specializations in Administrative Studies, Curriculum and Diversity Studies, Instructional Technology, Physical Education and Health, Sciences and Social Sciences, and Teacher Education.

Students must successfully complete a preliminary examination, proposal defense, dissertation defense, and submit an approved dissertation to be eligible for graduation. The criteria listed below are the minimum Ed.D. program requirements. Each specialization area may have additional requirements. Contact should be made with the specialization area to determine additional requirements.
Admission Requirements

Applicants for admission to the Doctor of Education (Ed.D.) Program shall meet the minimum eligibility criteria prior to admission, as well as other published requirements for specific specialization areas of study. Applicants are advised to consult with representatives from their chosen specialization for further information and admission requirements. Because the number of students who may be enrolled in the Ed.D. Program at any time is limited; admission to the program is selective. Therefore, meeting the minimum eligibility criteria does not guarantee admission to the program. Preference for admission to any semester will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study.

In addition to the University graduate admission requirements described in the Admissions section (p. 10) 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
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

Additionally applicants must:

A. Submit a written goal statement to be reviewed by the specialization faculty; and
B. Complete a College of Professional Studies Ed.D. Specialization Declaration Form.

Departments housing the specializations may have additional admission requirements. Some specializations admit applicants on a rolling review of credentials without a predetermined number of applicants admitted per year; contact the specialization’s program coordinator for specific admission requirements.

In addition to general University degree requirements, students seeking the Ed.D. in Curriculum and Instruction must meet the requirements listed below.

Foundational Proficiencies (6 sh)

Foundational Proficiencies are not part of the degree program and should be completed prior to admission.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Degree Requirements

To be eligible for an Ed.D. degree in Curriculum and Instruction, a student must complete a minimum of 62 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 (24 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6475</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>
</tbody>
</table>

Specialization Area (24 sh)

Dissertation Requirement (18 sh)

Administrative Studies Specialization

The Administrative Studies Specialization focuses on educational systems, change theory, and leadership theory.

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24

Curriculum and Diversity Studies Specialization

The Curriculum and Diversity Studies Specialization offers two options: Curriculum Studies and Diversity Studies. The Curriculum Studies option targets individuals in public and private sectors who want to specialize in theory and practice of curriculum issues and development. This program is developed under general theory-based curriculum issues coupled with various professional areas that meet each individual student need. The Diversity Studies option targets individuals in public and private sectors who want to specialize in theory and practice of curriculum and social issues in the area of diversity.

Curriculum Studies Option

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24

Diversity Studies Option

Students will select 24 semester hours of required course work in this specialization.

Total Hours 24
Instructional Technology Specialization

The Instructional Technology Specialization offers two options: Performance Technology or Distance Learning. The Performance Technology option targets individuals who want to investigate how instructional technology can be used to improve performance and learning in various educational environments. Students explore a variety of delivery systems and the influence of technology on performance and learning as they develop a framework for improving performance. The Distance Learning option targets individuals who want to develop expertise in theoretical constructs for an application of distance educational systems including: design, development, implementation, and evaluation. Students choose from a variety of courses depending upon their future goals and examine distance learning environments, web-based instruction, delivery systems, and instructional design.

Performance Technology Option

Students will select 24 semester hours of required course work in this specialization.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 5001</td>
<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6003</td>
<td>Advanced Theoretical Models of Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6516</td>
<td>Advanced Assessment and Evaluation in Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6535</td>
<td>Strategic Planning and Instructional Design in PE and Health</td>
<td>3</td>
</tr>
<tr>
<td>PET 6708</td>
<td>Research on Teaching Physical Education and Health</td>
<td>3</td>
</tr>
<tr>
<td>PET 6774</td>
<td>Models of Teaching in Physical Education and Health</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives in field</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 24

Distance Learning Option

Students will select 24 semester hours of required course work in this specialization.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 5001</td>
<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
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<td>Advanced Theoretical Models of Health and Physical Education</td>
<td>3</td>
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<td>Advanced Assessment and Evaluation in Health and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6535</td>
<td>Strategic Planning and Instructional Design in PE and Health</td>
<td>3</td>
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<td>PET 6708</td>
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<td>3</td>
</tr>
<tr>
<td>PET 6774</td>
<td>Models of Teaching in Physical Education and Health</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives in field</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 24

Physical Education and Health Specialization

This 24 sh specialization is for professionals in the field of health and physical education directly responsible for addressing health and physical concerns of individual students, classroom students, school-wide groups of students, school district student populations, and children and adults in the community at large. The primary focus is on school-based health and physical education; however, the program is designed to prepare professionals to teach or administer programs at the university, college, K-12 schools, or in the community.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 5701</td>
<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6003</td>
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<td>3</td>
</tr>
<tr>
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<td>Advanced Assessment and Evaluation in Health and Physical Education</td>
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<td>Strategic Planning and Instructional Design in PE and Health</td>
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<tr>
<td>PET 6708</td>
<td>Research on Teaching Physical Education and Health</td>
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<tr>
<td>PET 6774</td>
<td>Models of Teaching in Physical Education and Health</td>
<td>3</td>
</tr>
<tr>
<td>Approved electives in field</td>
<td></td>
<td>6</td>
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Total Hours 24

Teacher Education Specialization

The Teacher Education Specialization area offers two options: Alternative/Special Education or Teaching and Learning. The Alternative/Special Education option targets individuals who want to assume leadership roles in working with populations of at-risk children and youth. The Teaching and Learning option targets individuals who want to become leaders in teaching and learning and related content areas. This program facilitates a leadership role in teaching and learning, junior/community college, and educational agencies.

Alternative/Special Education Option

Students will select 24 semester hours of required course work in this specialization.

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<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
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<td>3</td>
</tr>
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<td>PET 6003</td>
<td>Advanced Theoretical Models of Health and Physical Education</td>
<td>3</td>
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<td>PET 6516</td>
<td>Advanced Assessment and Evaluation in Health and Physical Education</td>
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<td>PET 6708</td>
<td>Research on Teaching Physical Education and Health</td>
<td>3</td>
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<tr>
<td>PET 6774</td>
<td>Models of Teaching in Physical Education and Health</td>
<td>3</td>
</tr>
<tr>
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Total Hours 24

Teaching and Learning Option

Students will select 24 semester hours of required course work in this specialization.

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<thead>
<tr>
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<td>Systematic Observation in Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>PET 6003</td>
<td>Advanced Theoretical Models of Health and Physical Education</td>
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<tr>
<td>PET 6516</td>
<td>Advanced Assessment and Evaluation in Health and Physical Education</td>
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<td>PET 6535</td>
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<td>Research on Teaching Physical Education and Health</td>
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<tr>
<td>PET 6774</td>
<td>Models of Teaching in Physical Education and Health</td>
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</tr>
<tr>
<td>Approved electives in field</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 24

Sciences and Social Sciences Specialization

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

In this section:
- Course Descriptions (http://catalog.uwf.edu/courseinformation/courses)
- General Course Information (p. 101)
- Course Schedule by Semester (https://nautical.uwf.edu/display.cfm?target=courseSearch)
- Equipment Fees (p. 103)
- Material and Supply Fees (p. 106)

General Information

Florida Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 25 participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course profiles.”

Example of Course Identifier

<table>
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<th>Prefix</th>
<th>Level Code</th>
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<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
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<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>Composition</td>
<td>Level at this institution</td>
<td>1</td>
<td>Composition</td>
<td>Composition</td>
<td>Composition</td>
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</table>

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exception to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by 56 different postsecondary institutions. Each institution uses “ENC_101” to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, “ENC” means “English Composition;” the century digit “1” represents “Freshman Composition;” the decade digit “0” represents “Freshman Composition Skills;” and the unit digit “1” represents “Freshman Composition Skills I.”

In the sciences and certain other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course that meets in the same place at the same time. The “L” represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at the community college is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

“Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the
courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students."

**Exceptions to the General Rule for Equivalency**

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

A. Courses not offered by the receiving institution.
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
D. College preparatory and vocational preparatory courses.
E. Graduate courses.
F. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

UWF course equivalents are determined based on the Statewide Course Numbering System (SCNS), or if not part of the SCNS, after consultation with the appropriate academic departments. Factors that may be considered in making determinations for transfer of credit and for course equivalents include, but are not limited to, course description, course student learning outcomes, course syllabi, course text and other learning materials, qualifications of the course instructor, accredited status of the institution, and the time elapsed since the course work was completed, and student grades in courses taken at UWF.

**Courses at Nonregionally Accredited Institutions**

The SCNS makes available on its home page (http://scns.fldoe.org) a report entitled “Courses at Nonregionally Accredited Institutions” that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course’s transfer level and transfer effective date. This report is updated monthly.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to the Registrar’s Office or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the SCNS office at (850) 245-0427 or at http://scns.fldoe.org.

**How to Find Courses**

Please consult the Course Descriptions (http://catalog.uwf.edu/courseinformation/courses) section of the catalog for specific course information.

**Course Level**

Lower Division Courses have a "1" or "2" as the first digit of the course number. Upper Division Courses have a "3" or "4" as the first digit of the course number.

Graduate Courses have a "5," "6," "7," or "8" as the first digit of the course number.

**Classification of Courses**

The University course numbering system is as follows:

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Open To</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-2999</td>
<td>Freshman, sophomores, and non-degree students, unless otherwise noted</td>
</tr>
<tr>
<td>3000-4999</td>
<td>Open to freshmen, sophomores, juniors, seniors, and non-degree students</td>
</tr>
<tr>
<td>5000-5999</td>
<td>Open to all degree-seeking and non-degree graduate students. Juniors and seniors may register for 5000-level courses under certain conditions</td>
</tr>
<tr>
<td>6000-7999</td>
<td>Restricted to students enrolled in graduate programs and other post baccalaureate students who may be admitted at the discretion of the department chairperson. Non-degree students must have permission of the specific course instructor to register for 6000-level courses</td>
</tr>
<tr>
<td>8000-8999</td>
<td>Restricted to students enrolled in the doctoral program</td>
</tr>
</tbody>
</table>

**Permission 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 Navigation Guide for registration procedures.

**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 description. Students who have not successfully completed the specific courses identified may not take the course without the instructor's permission. Departments that enforce prerequisites will cancel the registration in a course of a student who does not meet the course prerequisites. A student whose registration is cancelled will be notified via his/her UWF email account. For further information about prerequisites and corequisites, please contact the offering department and review the information found in the Registration & Records section of this Catalog.

990-999 Course Numbers
Courses in the 990-999 series are not identified in the University catalog and are exceptions to the general rule for course equivalencies and may not be transferable. Transfer credit is at the discretion of the receiving institution. These courses are semester specific and may change in title, content, and credit hours.

Courses with Special Fees

Equipment Fees

Material and Supply Fees

Equipment Fees
Equipment fees are assessed by departments to offset the cost of significant equipment that is used to prepare students for their careers or professions and are used for instructional purposes only with direct use by students.

Anthropology

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<td>ANG 6824**</td>
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*Summer course only. **Summer only course. Fees vary depending on use of terrestrial ($100) or maritime ($200) methods.

Art

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### Communication

**Arts**

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Course Descriptions

ACCOUNTING: GENERAL Courses

AGC 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.

AGC 2071  Principles of Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 2021
Role of accounting as a tool in decision making process within economic framework of the firm.

AGC 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.

AGC 3101  Intermediate Financial Accounting I
3 sh (may not be repeated for credit)
Prerequisite: AGC 2071 and CGS 2570

AGC 3111  Intermediate Financial Accounting II
3 sh (may not be repeated for credit)
Prerequisite: AGC 3101, FIN 3403
Continuation of AGC 3101.

AGC 3172  Financial Accounting Topics
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Explain/analyze complexities of leases, pensions, income taxes, long-term debt, long-term investments, stockholders' equity, accounting changes, and other financial components from a financial statement user perspective. Available to non-accounting majors only.

AGC 3311  Applied Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 2021 and AGC 2071
Gives students an opportunity to have basic business decision making skills on accounting information. Students will analyze cases involving various business situations. Topic areas to be covered include financial statement analysis, cost-volume-profit analysis, budgeting, performance evaluation, and special decision making. Available to non-accounting majors only.

AGC 3343  Cost Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 2071, 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.

AGC 3401  Accounting Information Systems
3 sh (may not be repeated for credit)
Prerequisite: AGC 3101
Design of systems to capture, process and report accounting information.

AGC 3949  Cooperative Education
1-2 sh (may be repeated for up to 4.0 sh of credit)
Prerequisite: ACG 2021
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.

AGC 4151  Accounting Theory
3 sh (may not be repeated for credit)
Prerequisite: AGC 3111
Critical evaluation of broad framework of financial accounting theory.

AGC 4174  Special Topics in Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 3101
Provides exposure to recent issues and developments in financial accounting and the more significant areas that are of continuing interest. Offered concurrently with AGC 5807; graduate students will be assigned additional work. Derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with AGC 5807; graduate students will be assigned additional work.

AGC 4201  Advanced Financial Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 3111
Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with AGC 5205; graduate students will be assigned additional work.

AGC 4501  Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 3111
Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with AGC 5658; graduate students will be assigned additional work.

AGC 4651  Auditing
3 sh (may not be repeated for credit)
Prerequisite: AGC 3111 and AGC 3401
Philosophy of financial auditing by public accountant; techniques and procedures to investigate and appraise accounting systems and financial statements; types of opinions, current literature, and official pronouncements; ethical and legal implications.

AGC 4682  Forensic Accounting
3 sh (may not be repeated for credit)
Prerequisite: AGC 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 perpetuated.
ACCOUNTING Courses

ACG 4941 Accounting Internship
1-6 sh (may be repeated for up to 6.0 sh of 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)
Prerequisite: ACG 3111
Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with ACG 4201; graduate students will be assigned additional work.

ACG 5255 International Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111, ACG 4151

ACG 5658 Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 4501; graduate students will be assigned additional work.

ACG 5807 Special Topics in Accounting
3 sh (may not be repeated for credit)
Provides exposure to recent issues and developments in financial accounting and the more significant traditional areas that are of continuing interest. Offered currently with ACG 4501; graduate students will be assigned additional work.

ACG 6308 Advanced Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3343
Management control and behavior, control structures, responsibility accounting, cost/profit/investment centers, budgets and performance evaluation, control of projects, control in service, and non-profit organizations.

ACG 6309 Accounting Aspects of Business Policy Determination
3 sh (may not be repeated for credit)
Budgeting, profit planning, and controlling aspects of business policy determination. Available to non-accounting majors only.

ACG 6405 Accounting Information Systems
3 sh (may not be repeated for credit)
Prerequisite: ACG 3401
A seminar for the study of contemporary accounting system topics with an emphasis on internal controls. Primary emphasis is placed on an accounting system design project.

ACG 6805 Seminar in Financial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 4151
A blend of traditional and contemporary accounting issues with focus on the development of financial accounting theory, the relationship of theory and research to standard setting, and discussion of current accounting standards. Examines the objectives, measurement models, controversies, and philosophy of financial accounting.

ACG 6856 Advanced Auditing
3 sh (may not be repeated for credit)
Prerequisite: ACG 4651
Current professional practice, with emphasis on transaction cycles, risk analysis and the body of professional literature, including pronouncements of the Auditing Standards Board.

ADVERTISING Courses

ADV 2214 Advertising Graphics I
3 sh (may not be repeated for credit)
Prerequisite: Major or Minor in Communication Arts
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 Mac platform. Some basic design principles will be introduced along with the use of software. Acceptable prerequisite for advanced computer-based Communication Arts courses.

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 and Tactics I
3 sh (may not be repeated for credit)
Prerequisite: ADV 3000, ADV 2214
Covers the strategy, conceptualization, and execution of effective advertising. Professional advertising writing and art direction for both print and broadcast will be addressed. Familiarity with desktop publishing, especially Adobe Creative Suite is required.

ADV 3213 Advertising Graphics II
3 sh (may not be repeated for credit)
Prerequisite: ADV 2214
Addresses professional publication design theory and practice. Subjects include magazine, newsletter, collateral, and brochure design. Design topics include: typography, grids, graphics, paper, color, and identity. Commercial and desktop publishing are incorporated from a designer's viewpoint. Familiarity with desktop publishing, especially Adobe Creative Suite and Macintosh platform is required. Credit may not be received in both ADV 3213 and ADV 3213C.

ADV 3300 Advertising Media
3 sh (may not be repeated for credit)
Prerequisite: ADV 3000
Analysis and evaluation of advertising media, market analysis, media planning, media strategies, discussions, and costs. Credit may not be received in both ADV3300 and ADV 3300C.
ADV 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 6.0 sh of credit)
Preparation for American Advertising Federation competition. Student
agency prepares complete campaign, including: market research and
segmentation, media and promotion plans, strategy, creation, and
presentation. Professional standards stressed. Permission is required.
Credit may be received in ADV 4801 and ADV 4801C up to 6 sh.
ADV 4802  Integrated Communication-Campaigns
3 sh (may not be repeated for credit)
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.

AFRICAN HISTORY Courses
AFH 4503  Africans in the Atlantic World
3 sh (may not be repeated for credit)
Africans comprised roughly two-thirds of 12 million migrants to the
Americas between the 15th and 19th centuries. Course examines their
experiences and their descendants in the making of the Atlantic world.
Surveys critical time periods, institutions, individuals, and events, in
the development of Creole societies throughout the Atlantic littoral.
Emphasis placed on the construction of a “black Atlantic” identity
among Africans and African-descended people throughout the Atlantic
world. Special attention is paid to the history of West Africa. Story is
told from an African point of view.

AIR FORCE: AEROSPACE 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-requisite: 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-requisite: AFR 1112
AFR 2130  The Evolution of USAF Air and Space Power I
1 sh (may not be repeated for credit)
Study of the component of air and space power from balloons and
dirigibles up to the Korean Conflict. Students will be introduced to the
Air Force methods of effective communication. Leadership laboratory
activities are included.
AFR 2130L  The Evolution of USAF Air and Space Power I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 2130
AFR 2132  The Evolution of USAF Air and Space Power II
1 sh (may not be repeated for credit)
Study of air and space power following the Korean War. Course deals
with the peaceful employment of U.S. air power in relief missions and
civic actions program in the late 1960s and the air war in South Asia. It
also covers the buildup of air power during the 1980s and the changes
brought about by Desert Storm. Leadership laboratory activities include
preparation for field training.
AFR 2132L  The Evolution of USAF Air and Space Power II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 2132
AFR 3221  Air Force Leadership and Management I
3 sh (may not be repeated for credit)
Integrated management course emphasizing the individual as
a manager in an Air Force milieu. The individual motivation and
behavioral processes, leadership, ethics, communication, and
group dynamics provide a foundation for the development of the
junior officer’s professional skills as an Air Force officer. The basic
managerial processes involving decision-making, and the use of
analytic aids in planning, organization, and controlling in a changing
environment are emphasized. Laboratory provides opportunities for
practical application of leadership skills.
AFR 3221L  Air Force Leadership and Management I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 3221
Corresponding lab for AFR 3221.
AFR 3232  Air Force Leadership and Management II
3 sh (may not be repeated for credit)
Organizational and personal values, quality management of forces in
change, organizational power, politics, managerial strategy and tactics,
military justice, and administrative laws are discussed within the
context of the military organization. Actual Air Force cases are used
to enhance the learning and communication processes. Leadership
laboratory included.

AFR 3232L  Air Force Leadership and Management II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 3232
Corresponding lab for Air Force Leadership and Management II.

AFR 4211  National Security Forces in Contemporary American
Society I
3 sh (may not be repeated for credit)
Focuses on the Armed Forces as an integral element of society.
Emphasizes the broad range of American civil-military relations, the
environmental context in which U.S. defense policy is formulated and
implemented, the societal attitudes toward the military, and the role of
the professional military leader-manager in a democratic society. Each
student prepares individual and group presentations for the class,
writes reports, and participates in group discussions and seminars.
Laboratory provides opportunities for practical application of leadership
skills.

AFR 4211L  National Security Forces in Contemporary American
Society I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 4211
Corresponding lab for National Security Forces in Contemporary
American Society I.

AFR 4214  National Security Forces in Contemporary American
Society II
3 sh (may not be repeated for credit)
Stresses the fundamental values and socialization process associated
with the Armed Services; the requisites for maintaining adequate
national security forces; the political, economic, and social constraints
on the national defense structure; the impact of technological and
international developments on strategic preparedness; and the
manifold variables involved in the formulation and implementation of
national policy. Leadership laboratory included.

AFR 4214L  National Security Forces in Contemporary American
Society II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 4214
Corresponding lab for National Security Forces in Contemporary
American Society II.

AMERICAN HISTORY Courses

AMH 2010  United States to 1877
3 sh (may not be repeated for credit)
Survey of the United States history beginning with Native American
cultures on the eve of colonization through the end of Reconstruction.
Examines political, economic, and social developments. (General
Studies Course: SS/HIS).

AMH 2020  United States since 1877
3 sh (may not be repeated for credit)
Survey of the United States history beginning in 1877 and ending
with a discussion of America in the present era. Examines political,
economic, and social developments. (General Studies Course: SS/
HIS).

AMH 3540  American Military History
3 sh (may not be repeated for credit)
The American military experience from the colonial era to the present,
including causes, conduct, and consequences of wars in American
history, civil-military relations, and technology.

AMH 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 4150  Early American Republic: 1789-1860
3 sh (may not be repeated for credit)
Political, social, and economic history of the United States
emphasizing Jeffersonian and Jacksonian influences on American life
and thoughts, sectionalism, and westward expansion.

AMH 4160  Jacksonian America
3 sh (may not be repeated for credit)
Examines the major issues, events, and figures that defined
Jacksonian America, the period from the end of the War of 1812 to
the Compromise of 1850. All aspects of the Jacksonian era will be
covered—social, cultural, economic, political, constitutional, diplomatic,
and military.

AMH 4202  From Stalin to Star Wars: The Cold War and American
Culture
3 sh (may not be repeated for credit)
Progression and complexities of the Cold War through both global and
domestic arenas, from the rise of Communism to the collapse of the
Soviet Union.

AMH 4272  Cold War and Film
3 sh (may not be repeated for credit)
Period films are used to learn about the Cold War and its effect on
the course of events in United States history as well as its influence
on aspects of American culture. Classes conducted through a
combination of lectures, film screenings, and discussions as well as
with individual and group projects.

AMH 4403  History of the New South
3 sh (may not be repeated for credit)
Political, social, and economic developments in the South from the end
of the Civil War to the present.

AMH 4420  History of Florida
3 sh (may not be repeated for credit)
Pre-Columbian to present; social, economic, and political development.
Offered concurrently with AMH 5424; graduate students will be
assigned additional work.
AMH 4427 Florida Panhandle History
3 sh (may not be repeated for credit)
Exposes students to the diverse history of that section of Florida bounded in the west by the Perdido River and in the east by the Apalachicola River - the Florida Panhandle.

AMH 4442 The American West
3 sh (may not be repeated for credit)
History of the American West from the Louisiana Purchase in 1803 to the present.

AMH 4460 Urban History
3 sh (may not be repeated for credit)
United States urban development from the period of colonization through the present. Applies both traditional and public history techniques.

AMH 4551 U. S. Constitutional and Legal History (to 1877)
3 sh (may not be repeated for credit)
A comprehensive examination of the development of the U. S. constitutional and legal system from the colonial period through Reconstruction. Although the history of the U. S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the legal system during the antebellum period - and the larger political, social, and economic forces surrounding and influencing this development - are given greater weight.

AMH 4552 U. S. Constitutional and Legal History (Since 1877)
3 sh (may not be repeated for credit)
A comprehensive examination of the development of the U. S. constitutional and legal system from Reconstruction to the present day. Although the history of the U. S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the states in the making and development of the constitutional and legal system during the modern period of U. S. history - and the larger political, social, and economic forces surrounding and influencing the development - are given greater weight.

AMH 4575 Civil Rights
3 sh (may not be repeated for credit)
U.S. civil rights movement from its roots in the nineteenth century to the present.

AMH 4580 History of North American Indians
3 sh (may not be repeated for credit)
Survey of North American Indian history from European contact to present. Topics include fur trade, removal, plains warfare, and U.S. government policy. Meets Multicultural requirement.

AMH 4584 Politicians vs. Indians: Three Centuries of American Indian Policy
3 sh (may not be repeated for credit)
Examines the development, implementation, and consequences of the U. S. government's policies concerning Native Americans, beginning with the foundation of American Indian policy during the colonial period and culminating with the resurgence of Native American self-determination during the last decades of the 20th century.

AMH 5424 History of Florida
3 sh (may not be repeated for credit)
Pre-Columbian to present; social, economic, and political development. Offered concurrently with AMH 4420; graduate students will be assigned additional work.

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 6169 Seminar: Jacksonian America
3 sh (may not be repeated for credit)
Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered—social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 6439 Seminar: The Southern Frontier
3 sh (may not be repeated for credit)
Research seminar focusing on the U.S. Southeastern frontier from 1750-1850.

AMH 6447 Seminar: Spanish Borderlands, 1513-1821
3 sh (may not be repeated for credit)
Broad readings in the history of the Borderlands, defined as those regions between Florida and California, now belonging to the United States, which were once part of the Spanish colonial empire.

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 colonial times to the Civil War. Primarily for English majors and minors.

AML 2072 Sex, Money, and Power in American Literature
3 sh (may not be repeated for credit)
From the days of Columbus, who came to the New World seeking fame and gold, to the era of Sex and the City, America has seen its share of sex scandals, political corruption, and war. What this suggests is that there have always been two different “Americas”: the one of our dreams and the one that forever disappoints us. This course explores these two Americas through literary study. (Gordon Rule Course: Wrtg) (General Studies Course: HUM/LIT).

AML 3604 African American Literature
3 sh (may not be repeated for credit)
This is a discussion and collaborative group work course in which literary texts from various genres including slave narratives, dramas, short stories, novels, poetry, and the nonfiction essay will be used to reveal how complicit the factors of race, gender, sexuality, nationality, class, and the “divided self” are in the African-American experience. Attendance and participation in the interactive classroom discussions and in-class and out-of-class group work are crucial to a student’s success in the class. (Meets Multicultural requirement).
AML 3624  Black Women Writers
3 sh (may not be repeated for credit)
Poetry, drama, and prose of black women writers in America.
Emphasis on works from the Harlem Renaissance to the present.
Meets Multicultural requirement.

ANT 2100  Introduction to Anthropology
3 sh (may not be repeated for credit)
Introduction to subdivision of anthropology and anthropological thought, basic treatment of human evolution, origins of civilization, world archaeology and modern work cultures, stressing the continuities of human nature. (General Studies Course: SS/BEH) Meets Multicultural requirement.

ANT 3015   Forensics in the Media
3 sh (may not be repeated for credit)
Provides students with relevant learning experiences focusing on the standard methods and techniques of forensic science and how it is inaccurately portrayed in popular media. Dispels CSI related myths in popular media, while learning about the multidisciplinary science behind real crime scene investigations. General Studies course (NAT SCI/LEC).

ANT 3101   Principles of Archaeology
3 sh (may not be repeated for credit)
Detailed explanation of the principles and methodology of current archaeology in U.S.; includes a brief history and theoretical orientation development of American archaeology.

ANT 3137   Shipwreck Archaeology
3 sh (may not be repeated for credit)
Introductory course in Underwater Archaeology with an emphasis on American Maritime History and New World Archaeology as they relate to Pensacola's maritime heritage. The format centers on assigned readings and classroom meetings with lectures, discussions, educational slides and videos, and workshops. An attempt is made to incorporate field activities on at least one occasion.

ANT 3141   Origins of Civilization
3 sh (may not be repeated for credit)
Cultural processes leading toward civilization and theories explaining the emergence of civilization. Comparison of the early civilizations of Mesopotamia, Egypt, India, China, Mesoamerica, and Peru.

ANT 3153   North American Archaeology
3 sh (may not be repeated for credit)
Overview of archaeology of North America. Emphasis on patterns of development of regional cultures based on the archaeological record. Open to students in all majors.

ANT 3158   Florida Archaeology
3 sh (may not be repeated for credit)
Archaeology of Florida with emphasis on general patterns of development of Florida Indians. Field trips to area archaeological sites.
ANT 3165 South American Archaeology
3 sh (may not be repeated for credit)
The culture area of South America contains a high degree of environmental variability. The societies that developed exhibit considerable variation in form and social structure. Course examines that variation from an archeological and ethohistoric point of view. While focusing specifically on the cultural history of South America, it also discusses broader themes related to the evolution of human societies.

ANT 3212 Peoples and Cultures of the World
3 sh (may not be repeated for credit)
Culture areas of the world and frameworks for cultural comparison. Detailed study of representative peoples around the world gives emphasis to non-Western societies and the reporting tool of ethnography. Meets Multicultural requirement.

ANT 3241 Anthropology of Religion
3 sh (may not be repeated for credit)
Connections of religion with the social organization, behavioral systems, and technology of traditional peoples outside the world of Western monotheism. Emphasis on animistic symbolism, shamanism, traditional metaphors for deities, and prehistoric, historic, or ethnographic accounts of ritual systems.

ANT 3311 Indians of the Southeast: An Anthropological Perspective
3 sh (may not be repeated for credit)
Southeastern Indians is a survey course of the Native American groups in the Southeastern U. S. and their culture. It begins with an overview of prehistory and continues into the early 19th century. Examines such key areas as socio-cultural archaeology, archaeology, biological archaeology, and history.

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.

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 be repeated for up to 9.0 sh of 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 4824 or ANT 3101  
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)  
Prerequisite: ANT 3101  
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 spreadsheets, 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)  
Prerequisite: ANT 3101  
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.

ANT 4247  Anthropology of the Bible  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 3101  
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.

ANT 4302  Sex Roles in Anthropological Perspective  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 3101  
Female and male behavioral, social and biological similarities and differences viewed from a biological-cultural perspective. Emphases upon evolution and cross-cultural comparison.

ANT 4302  Sex Roles in Anthropological Perspective  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 3101  
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)  
Prerequisite: ANT 3101  
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)  
Prerequisite: ANT 3101  
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 4323  Cultures of Latin America  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 3101  
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 ANG 5307; graduate students will be assigned additional work.

ANT 4451  Race, Ethnicity, and Culture  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 2511, ANT 2511L  
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, ANT 2511L  
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, ANT 4525, ANT 4525L  
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.

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.

ANT 4535   Race in Biological Anthropology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L
Examination of the biological basis of human diversity, the mechanisms of human population variation, and racial studies in historical and social context.

ANT 4550   Primatology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511, ANT 2511L
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 and ANT 2511L
Overview of the fossil evidence for human evolution, and hominid 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 be repeated for up to 9.0 sh of 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 be repeated for up to 9.0 sh of 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.

ANT 4944   Anthropology Internship
1-3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ANT 4190 and ANT 4824
Placement in community agency or other social or organizational setting. Supervision by faculty and agency. Student participates in full range of services available in the setting. An internship paper is required. A maximum of 6 sh may be applied to the major requirements. Permission is required.

ANTHROPOLOGY: GRADUATE Courses

ANG 5137   Nautical Archaeology Seminar
3 sh (may not be repeated for credit)
Method and theory of nautical archaeology, development as a discipline, ethical considerations, evolution of ship construction and public laws and education.

ANG 5154   Spanish Florida in Anthropological Perspective
3 sh (may not be repeated for credit)
A comprehensive anthropological exploration of the origins and evolution of Spanish Florida as a colonial society between 1513 and 1763. Draws upon the results of historical, ethnohistorical, archaeological (terrestrial and maritime), bioanthropological, and other research disciplines to present the Florida colony as a geographically-extensive multi-ethnic society within the context of the global Spanish empire.

ANG 5157   Pre-Columbian Archaeology Seminar
3 sh (may not be repeated for credit)
Examination of the classic and current literature on key topics in North American pre-Columbian archaeology including peopling of the New World, Archaic adaptations, Woodland stage developments, and the Mississippian world.
ANG 5172  Historical Archaeology Seminar
3 sh (may not be repeated for credit)
Emphasizes the goals, methods and theoretical base of historical archaeology. Particular emphasis is placed on theoretical development, acculturation, ethnicity, archaeological methods and documentary research. The class is an organized seminar with readings and discussions of specific topics.

ANG 5173  Historical Research Methods in Archaeology
3 sh (may not be repeated for credit)
A practical introduction to the use of historical documents in archeological research, both as primary sources of data for understanding the past, and as a complement to archaeological and other types of data. Examples and case-studies will center on the history of Florida during Spanish, British, and early American periods.

ANG 5181  Geographic Information Systems in Archaeology
3 sh (may not be repeated for credit)
A methods course in the use of Windows based Geographic Information Systems (GIS) technology that teaches the basic skills necessary to use GIS for research in anthropology, archaeology and cultural resource management. GIS philosophy and concepts, database design and use, computer assisted cartography and anthropological research using ArcGIS will be covered.

ANG 5247  Anthropology of the Bible
3 sh (may not be repeated for credit)
A seminar on the social and cultural interpretations of the scriptures pertinent to Hebrew/Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through 4th century CE. Materials brought under scrutiny include the Torah, Hebrew Bible generally, Dead Sea scrolls, Christian canon, and the scriptures of the Naj Hammadi library. Much of the interpretation concerns alternative views of the political and social groups underlying these texts. Graduate students are required to conduct primary scriptural analysis informed by modern critical approaches. Offered concurrently with ANT 4247; graduate students will be assigned additional work.

ANG 5307  Cultures of Latin America
3 sh (may not be repeated for credit)
Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socioeconomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANT 4332; graduate students will be assigned additional work.

ANG 5321  Cultures of Mexico
3 sh (may not be repeated for credit)
Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico’s place in the world. Offered concurrently with ANT 4321; graduate students will be assigned additional work.

ANG 5322  Mesoamerican Cultural Traditions
3 sh (may not be repeated for credit)
Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANT 4322; graduate students will be assigned additional work.

ANG 5408  Disease and Culture
3 sh (may not be repeated for credit)
Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANT 4532; graduate students will be assigned additional work.

ANG 5451  Race, Ethnicity, and Culture
3 sh (may not be repeated for credit)
Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANT 4451; graduate students will be assigned additional work.

ANG 5514  Human Origins
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L
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)
Prerequisite: ANT 2511/L or equivalent
Evolutionary perspective on function and adaptive nature of biological variation in modern human. Offered currently with ANT 4516; graduate students will be assigned additional work.

ANG 5520  Human Osteology
4 sh (may not be repeated for credit)
Prerequisite: ANT 2511
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.

ANG 5520L  Human Osteology Lab
3 sh (may not be repeated for credit)
Co-requisite: ANG5520
Corresponding lab for Human Osteology.
ANG 5550  Primatology  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 2511  
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 6002  Proseminar in Anthropology  
3 sh (may be repeated for up to 6.0 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 6002.

ANG 6084  Contemporary Anthropological Theory  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 4034  
A seminar engaging readings from the works of key American and European anthropologists since the 1960s. Considers the debates between traditionalism and postmodern schools of anthropology, together with the essential problems for ethnology created by technology, complex society, gender issues, ethnicity, and applications of anthropological research.

ANG 6093  Research Design in Anthropology  
3 sh (may not be repeated for credit)  
The fundamental issues of research design and implementation and the objectives and strategies of contemporary anthropological research. Scientific procedures and methods in the development of research programs that are logically structured and fundable. Alternative forms of deriving knowledge relating to important issues in epistemology and the philosophy of science will also be discussed.

ANG 6110  Advanced Method and Theory in Archaeology Seminar  
3 sh (may be repeated for up to 0.0 sh of credit)  
Includes an overview of the history and development of American archaeology with an emphasis on methodological and theoretical topics. Class is an organized seminar with readings and discussions of specific topics.

ANG 6183L  Advanced Laboratory Methods in Archaeology  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 4180L  
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.

ANG 6192  Historic Preservation Law Seminar  
3 sh (may not be repeated for credit)  
Examination of pertinent laws and practices in all fields of historic preservation including archaeology, history, and architectural history.

ANG 6196  Policies, Practices and Archaeology in Historic Preservation  
3 sh (may not be repeated for credit)  
Legislation and regulations concerning cultural resources and the historic preservation system. Also covers compliance archaeology, contract archaeology, ethics, collecting, looting and the role of Native Americans and ethnic groups.

ANG 6286  Contemporary Cultural Anthropological Theory  
3 sh (may not be repeated for credit)  
Through readings and seminar discussion, students will explore key themes and thinkers of the past few decades which have contributed to the production of contemporary culture theory in anthropology. Important topics will include structuralism, cultural materialism, feminism and anthropology, post-modernism, world systems theory, post-colonialism, and symbolic anthropology. Key theorists will include Claude Levi-Strauss, Marvin Harris, Mary Douglas, Clifford Geertz, Sherry Ortner, Gayle Rubin, Pierre Bourdieu, Arjun Appadurai, and James Clifford.

ANG 6583  Evolutionary Theory in Biological Anthropology  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 2511  
Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human biocultural evolution.

ANG 6824  Advanced Archaeological Field Methods  
3-6 sh (may be repeated for up to 6.0 sh of credit)  
Prerequisite: ANT 4121 or ANT 4824 or ANT 4835. Only ANT 4835 and ANT 4121 can be used as prereqs for the maritime version of ANG 6824, while ANT 4824 or ANT 4121 can be used as prereqs for terrestrial version of ANG 6824  
Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

ANG 6971  Anthropology Thesis  
1-6 sh (may be repeated for up to 6.0 sh of credit)  
Preparation of master’s thesis which includes problem identification, review of literature, design, data collection, analysis, and results. Permission of Thesis Committee required. Graded on satisfactory/unsatisfactory basis only.

APPLIED KINESIOLOGY Courses

APK 2202  Advanced Sport Performance  
3 sh (may not be repeated for credit)  
Introduction and application of training modalities for improving physical athletic performance.

APK 3110  Exercise Physiology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 1085  
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 4113 Senior Seminar in Athletic Training
3 sh (may not be repeated for credit)
Prerequisite: APK 4305, PET 4610, PET 4623, PET 4632
The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required.

APK 4305 Evaluation Techniques of Athletic Injuries I
3 sh (may not be repeated for credit)
Prerequisite: PET 2622
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis.

APK 4312 Pharmacology Application in Athletic Training
2 sh (may not be repeated for credit)
Prerequisite: PET 3660
Provides information on the use, interaction, side effects of pharmaceuticals used in the treatment of athletes. Provides medical terminology used in the description of medical conditions associated with athletic injury diagnosis and classification.

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: APK 3110
Research and problems in exercise physiology; advanced study of reactions of human body under stress and during exercise. Material and supply fee will be assessed.

APPLIED MUSIC: BRASSES Courses

MVB 1311 Applied Music Trumpet
2-3 sh (may be repeated for up to 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 3332  Applied Music Horn  
2-3 sh (may be repeated for up to 9.0 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 9.0 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 9.0 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 9.0 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 3336  Applied Music Harpsichord  
1 sh (may not be repeated for credit)  
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 3337  Applied Music Organ  
2-3 sh (may be repeated for up to 9.0 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.

MVB 3338  Applied Music Horn  
2-3 sh (may be repeated for up to 9.0 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 3339  Applied Music Trombone  
2-3 sh (may be repeated for up to 9.0 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 3340  Applied Music Euphonium  
2-3 sh (may be repeated for up to 9.0 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 3341  Applied Music Trumpet  
2-3 sh (may be repeated for up to 9.0 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 3342  Applied Music Horn  
2-3 sh (may be repeated for up to 9.0 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 3343  Applied Music Trombone  
2-3 sh (may be repeated for up to 9.0 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 3344  Applied Music Euphonium  
2-3 sh (may be repeated for up to 9.0 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 3345  Applied Music Tuba  
2-3 sh (may be repeated for up to 9.0 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 be repeated for up to 3.0 sh of 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 all Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

**APPLIED MUSIC: KEYBOARD Courses**

MVK 1111  Class Piano I  
1 sh (may be repeated for up to 8.0 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 8.0 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 9.0 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 9.0 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 9.0 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 9.0 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 6.0 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 2421  Applied Music Piano  
2-3 sh (may be repeated for up to 9.0 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 9.0 sh of credit)  
Individual instruction in applied harpsichord. Primarily for music majors of the sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3331  Performance: Keyboards  
3 sh (may be repeated for up to 6.0 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 9.0 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 9.0 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 9.0 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 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 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVK 4341  Performance: Keyboards  
3 sh (may be repeated for up to 9.0 sh of credit)  
Individual instruction in applied music in keyboards. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4441  Applied Music Piano  
2-3 sh (may be repeated for up to 9.0 sh of credit)  
Individual instruction in applied music piano. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4442  Applied Music Harpsichord  
2-3 sh (may be repeated for up to 9.0 sh of credit)  
Individual instruction in applied harpsichord. Primarily for music majors of the senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4641  Piano Pedagogy  
2 sh (may not be repeated for credit)  
Comparison of various published piano methods; application of these methods and other techniques of teaching beginning student to most advanced level. Required of all piano majors.

MVK 4704  Accompanying: Instrumental Literature  
2 sh (may not be repeated for credit)  
Prerequisite: MVK 1311 and MVK 2421  
Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for instruments involving a piano accompaniment. Survey of literature for woodwinds, brass, strings, percussion, chamber music, and two pianos with emphasis on performance techniques. Two years of applied piano and permission is required.

MVK 4705  Accompanying Vocal Literature  
2 sh (may not be repeated for credit)  
Prerequisite: MVK 1311 and MVK 2421  
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 4932 Piano Interpretation  
2 sh (may not be repeated for credit)  
Study and comparison of interpretations of piano music by means of written treatises, recorded examples and demonstration. Required of all piano majors. Junior level standing and permission is required.

MVK 4942 Accompanying Internship I  
2 sh (may not be repeated for credit)  
Prerequisite: MVK 1311 and MVK 2421  
An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Two years of applied piano and permission is required.

MVK 4943 Accompanying Internship II  
2 sh (may not be repeated for credit)  
Prerequisite: MVK 4942  
An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Permission is required.

MVK 4971 Senior Recital - Keyboards  
1-3 sh (may be repeated for up to 3.0 sh of 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 9.0 sh of credit)  
Prerequisite: MVK 4441  
Individual instruction in applied music in piano. Primarily for music majors of Graduate level standing. Permission is required.

MVP 3331 Applied Music Percussion  
2-3 sh (may be repeated for up to 9.0 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 (juniors level) and permission is required. Performance majors only.

MVP 4341 Applied Music Percussion  
2-3 sh (may be repeated for up to 9.0 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 be repeated for up to 3.0 sh of 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.

APPLIED MUSIC: STRINGS Courses

MVS 1311 Applied Music Violin  
2-3 sh (may be repeated for up to 9.0 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 9.0 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 9.0 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 9.0 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 1316 Applied Music Guitar  
2-3 sh (may be repeated for up to 9.0 sh of credit)  
Individual instruction in applied music in guitar. 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 9.0 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 9.0 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 9.0 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 9.0 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 3331  Applied Music Violin
2-3 sh (may be repeated for up to 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 3338  Applied Music Violin
2-3 sh (may be repeated for up to 9.0 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 3339  Applied Music Viola
2-3 sh (may be repeated for up to 9.0 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 3340  Applied Music Cello
2-3 sh (may be repeated for up to 9.0 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 3341  Applied Music Bass
2-3 sh (may be repeated for up to 9.0 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 3342  Applied Music Guitar
2-3 sh (may be repeated for up to 9.0 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 3343  Applied Music Violin
2-3 sh (may be repeated for up to 9.0 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 3344  Applied Music Viola
2-3 sh (may be repeated for up to 9.0 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 3345  Applied Music Cello
2-3 sh (may be repeated for up to 9.0 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 3970  Junior Recital - Strings
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization
music degree must present at least one-half of a public recital.
Permission to give recital is secured from the student's applied teacher
at least eight weeks prior to scheduled recital date. Two semesters of
3000 level applied lessons (junior level) and permission is required.
Performance majors only.

MVS 4341  Applied Music Violin
2-3 sh (may be repeated for up to 9.0 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 9.0 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 9.0 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 9.0 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.

MVS 4971  Senior Recital - Strings
1-3 sh (may be repeated for up to 3.0 sh of credit)
Prior to graduation all students seeking a music degree must present
a complete public recital. Permission to give a recital is secured from
students' applied teacher at least eight weeks prior to scheduled recital
date. Performance majors will be required to register for 3 credit hours
and Education majors will be required to register for 1 credit hour. Two
semesters of 4000 level applied music (senior level) and permission
required.
MVS 5451  Applied Viola
3 sh (may not be repeated for credit)

Individual instruction on the viola on the graduate level. Lesson times to be determined in consultation with the instructor.

APPLIED MUSIC: VOICE Courses

MVV 1311  Applied Music Voice
2-3 sh (may be repeated for up to 9.0 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 6.0 sh of credit)

Individual instruction in applied music vocal. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3331  Performance: Voice
3 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3970  Junior Recital - Voice
1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give a recital is secured from the student’s 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.

MVV 4341  Performance: Voice
3 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in voice. 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.

MVV 4441  Applied Music Voice
2-3 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music vocal. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4640  Vocal Pedagogy
2 sh (may not be repeated for credit)

Explores strategies of teaching voice to students of all ages and levels.

MVV 4971  Senior Recital - Voice
1-3 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students’ applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

APPLIED MUSIC: WOODWINDS Courses

MVW 1311  Applied Music Flute
2-3 sh (may be repeated for up to 9.0 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 9.0 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1313  Applied Music Clarinet
2-3 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1314  Applied Music Bassoon
2-3 sh (may be repeated for up to 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 9.0 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 2421   Performance: Woodwinds
2 sh (may be repeated for up to 6.0 sh of credit)
Individual instruction in applied music in woodwinds. 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 9.0 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 9.0 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 Bassoon
2-3 sh (may be repeated for up to 9.0 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 3334   Applied Music Clarinet
2-3 sh (may be repeated for up to 9.0 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 4341   Applied Music Flute
2-3 sh (may be repeated for up to 9.0 sh of credit)
Individual instruction in applied music in flute. 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.

MVW 4342   Applied Music Oboe
2-3 sh (may be repeated for up to 9.0 sh of credit)
Individual instruction in applied music in oboe. 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.

MVW 4343   Applied Music Clarinet
2-3 sh (may be repeated for up to 9.0 sh of credit)
Individual instruction in applied music in clarinet. 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.

MVW 4344   Applied Music Bassoon
2-3 sh (may be repeated for up to 9.0 sh of credit)
Individual instruction in applied music in bassoon. 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.

MVW 4345   Applied Music Saxophone
2-3 sh (may be repeated for up to 9.0 sh of credit)
Individual instruction in applied music in saxophone. 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.

MVW 4971   Senior Recital - Woodwinds
1-3 sh (may be repeated for up to 3.0 sh of 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.

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.
AR 2200C Intermediate Arabic Language and Culture I
4 sh (may not be repeated for credit)
Prerequisite: AR 1121C
Continuation of AR 1121C with increased complexity of grammatical constructions, greater emphasis on reading and writing and increased use of authentic materials. Some of the cultural information will be given in Arabic.

ART Courses

ART 1015C Exploring Artistic Vision
3 sh (may not be repeated for credit)
Challenges the student to explore alternative modes of perception and interpretation, through lectures, discussion, and hands-on application. Material and Supply fee will be assessed. (General Studies Course: HUM/FA).

ART 1300C Drawing I - Fundamentals
3 sh (may not be repeated for credit)
Students will study several media and how to use them. Instruction in drawing still life, landscapes and other objects/subjects provided. Students develop perception of proportions along with black/white media compositional concepts. Invites all students. Material and supply fee will be assessed.

ART 1301C Drawing II - Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C
Continuation and further development of the studies in ART 1300C. Material and supply fee will be assessed.

ART 2201C Two-Dimensional Design
3 sh (may not be repeated for credit)
Introduction to the concepts by which shape, value and color control space; ideas fundamental to the visual arts. Invites all students. Material and supply fee will be assessed.

ART 2203C Three-Dimensional Design
3 sh (may not be repeated for credit)
Designed to provide the beginning art major with a firm grounding in the technical strategies needed to create forms in space. Material and Supply Fee will be assessed.

ART 2400C General Printmaking
3 sh (may not be repeated for credit)
Introduction to various printmaking techniques possibly including block printing, calligraphy, monotype, etching and engraving. Content varies according to instructor. Prerequisite for all other printmaking courses. Invites all students. Material and Supply Fee will be assessed.

ART 2484C Principles of Graphic Art
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C
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.

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. Material and supply fee will be assessed.

ART 2600C Introduction to Digital Studio Practice
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C, 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, ART 1301C, ART 2201C, ART 2203C.
Course explores a wide range of contemporary sculpture, and familiarizes students with current genres and issues. Assignments develop important foundational skills in 3-D design, construction and materials, while challenging the mind with compelling concepts. Material and Supply Fee will be assessed.

ART 2821 Art and Visual Culture Today
3 sh (may not be repeated for credit)
Examines the cross-fertilization of visual forms via various media from painting and photography to film and advertising. Investigates social practices and institutions that produce images, and the power of images to shape our opinions and beliefs. Also addresses theories about modes of seeing. (General Studies Course: HUM/FA).

ART 3213C Advanced Ideas and Concepts
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, ART 2201C, ART 2203C.
A personal and group exploration of the artistic process, which harnesses the skills developed in the foundation art and media-based course to expand the creative potential. For advanced art majors and all BFA candidates in their junior year. Material and Supply fee will be assessed.

ART 3312C Drawing III: The Figure
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, and ART 2201C.
Requires essential education in drawing the human figure, whose accurate visualization remains a vital component of all artistic media and practice. Builds on the foundation art courses in drawing and two dimensional-design, which are necessary prerequisites. Material and Supply Fee will be assessed.

ART 3313C Drawing for Non-Majors
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C, 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, ART 1301C, ART 2201C, ART 2203C.  
Discussion and exploration into a variety of printmaking techniques unique to the intaglio process. The philosophical and functional aspects of the course will be cultivated. Material and Supply Fee will be assessed.

ART 3504C  Painting II-Intermediate  
3 sh (may not be repeated for credit)  
Prerequisite: ART 1301C and ART 2500C  
Includes fundamentals review. Develops individuality. Uses observational and conceptual experiences/project. Stresses understanding/perceiving color, using media and techniques appropriate to the student’s personal development. Primarily for art majors. Credit may not be earned in both ART 3530C and ART 3504C. Material and Supply Fee will be assessed.

ART 3505C  Painting III-Advanced  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3504C  
Individual development in media, technique and concept will be stressed. Possibilities of painting other then easel painting will be presented. Investigation and experimentation responding to situations and projects is required.

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.

ART 3613C  Digital Multimedia  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2600C  
Issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, emerging technology, installation, programming and/or robotics to be determined by instructor. Students work both individually and collaborate on projects that can involve video, space, time, objects, film, robotics, programming, or any other appropriate media. Material and Supply Fee will be assessed.

ART 3618C  Introduction to Web-based Art  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2600C  
An introduction to the Internet as a platform for fine art practice. A study of the history of web-based interactive artworks, contemporary concepts and issues in interactive art are explored through regular critiques, readings, and screenings. Students will produce and critique artworks using HTML, scripting, and software-based site production for the web. Material and Supply Fee will be assessed.

ART 3630C  Artist’s Video  
3 sh (may be repeated for up to 9.0 sh of credit)  
Prerequisite: ART 2600C  
An introduction to digital video using Final Cut Pro, iMovie, and After Effects. Focuses on video as an art medium, the history of video art and looking at examples from key artists of our time. Students must purchase a flash drive or a firewall external hard drive of at least 40GB for use in this class. Material and Supply Fee will be assessed.

ART 3660C  Digital Photo Exploration  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2600C  
Designed for student artists interested in capturing digital images that can stand alone as compelling visual statements, or be incorporated within a broader artistic framework. Material and Supply Fee will be assessed.

ART 3714C  Advanced Sculpture: Exploring Materials  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2701C  
Focuses on sculptural media and object making, both traditional and in contemporary practice. Provides further investigation into the selection of 3-D materials and its implications for authorship, meaning, environmental responsibility, and health concerns. Material and Supply Fee will be assessed.

ART 3718C  Advanced Sculpture: Intro to the Genres  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2701C  
Reorganizes the open-ended nature of “sculpture” as a category in art practice today. Moves beyond the conventional definition of sculpture as concerned with volume and mass in space. Topics include how art is responsive to its context, and the issue of authorship, process, and vulnerability will be explored. Material and Supply Fee will be assessed.

ART 3737C  Advanced Sculpture: Non-Place  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2701C  
Theory-based studio course that addresses anthropologist Marc Auge’s concept of the Non-Place. Course will examine what makes a space a non-place. Students will be challenged to think about the ways in which various kinds of art, architecture, and design can transform our everyday experiences of non-places into places that inspire. Material and Supply Fee will be assessed. 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 handforming processes including throwing on the potter’s wheel. Deals with basic glazing and firing techniques. Invites all students. Material and Supply Fee will be assessed.
ART 3762C  Ceramics: Wheelthrowing  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3760C  
Intermediate course in throwing techniques. Deals with clay in terms of functional as well as sculptural considerations. Covers a broad range of technical information. Material and supply fee will be assessed.

ART 3764C  Ceramics: Handbuilding  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3760C  
Handbuilding techniques. Deals with clay in terms of functional as well as free-form design. Covers a broad range of technical information. Material and supply fee will be assessed. Credit may not be earned in both ART 3111C and ART 3764C.

ART 3769C  Sculptural Ceramics  
3 sh (may be repeated for up to 9.0 sh of credit)  
Prerequisite: ART 2203C, 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 3930  Special Topics in Painting and Drawing  
1-9 sh (may be repeated for up to 27.0 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 9.0 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. Credit may not be earned in both ART 4161C and ART 4333C.

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.

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 9.0 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 9.0 sh of credit)  
Prerequisite: ART 2400C, 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. Credit may not be earned in both ART 4532C and ART 4506C.

ART 4520C  Painting: Personal Directions  
3 sh (may be repeated for up to 9.0 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 not be repeated for credit)  
Prerequisite: ART 3613C, ART 3618C, ART 3630C  
Advanced issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, installation, programming and/or robotics to be determined by instructor. Students work both individually and in collaboration on projects that can involve video, sound, space, time, objects, film, robotics, programming or any other appropriate media. Material and Supply Fee will be assessed.
ART 4632  Digital Studio Senior Project
3 sh (may be repeated for up to 9.0 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  Advanced Techniques in Interaction Design
3 sh (may not be repeated for credit)
Prerequisite: ART 3618C
An exploration of the design of interactive environments for design professionals. Issues addressed include accessibility, usability, interface, and information design. A greater emphasis on prototyping techniques and software best suited to the contemporary marketplace.

ART 4712C  Sculpture: Personal Directions
3 sh (may be repeated for up to 9.0 sh of credit)
Focused research into advanced specialized sculptural processes not normally covered within the normal sculpture course offerings. Processes covered are dependent upon direction of work. Contemporary art concepts are an integral part of this class. For advanced upper-level students only. May be designated a capstone course. Material Supply fee will be assessed.

ART 4787C  Ceramics: Personal Directions
3 sh (may be repeated for up to 9.0 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 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, 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 4316C  Special Methods in Art Education
4 sh (may be repeated for up to 8.0 sh of credit)
Studio activity incorporating contemporary concepts in art education, instructional and resource materials, evaluation and development. Curriculum development and implementation into the concurrent practicum. Individual criticism, class discussion and classroom observation and participation in the public schools. (8hrs. observation and 8hrs. participation). Permission is required. Material and Supply fee will be assessed.

ARE 4662  Arts and the Community
3 sh (may not be repeated for credit)
Designed to introduce students to the theoretical foundations and practice techniques of integrating arts and the community. The format will include 1 hour of lecture and topical discussions, semester journaling, and 1 hour lab exercises in partnership with Belmont Arts and Cultural Center. Offered concurrently with ARE 5667; graduate students will be assigned additional work.

ARE 4940  Art Education Internship
6-12 sh (may be repeated for up to 12.0 sh of 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.

ARE 5667  Arts and the Community
3 sh (may not be repeated for credit)
Designed to introduce students to the theoretical foundations and practice techniques of integrating arts and the community. The format will include 1 hour of lecture and topical discussions, semester journaling, and 1 hour lab exercises in partnership with Belmont Arts and Cultural Center. Offered concurrently with ARE 4662; graduate students will be assigned additional work.

ART HISTORY Courses

ARH 1010  Introduction to Art History
3 sh (may not be repeated for credit)
Surveys the key monuments of Western art and architecture from the upper Paleolithic period to the modern era. Not open to art majors. (General Studies Course: HUM/FA) Meets Multicultural requirement.

ARH 2050 Western Survey I: Greek to Renaissance
3 sh (may not be repeated for credit)
Analyzes the western aesthetic heritage within its cultural context from the birth of Greek art through the late Renaissance era. Required for all art majors. (General Studies Course: HUM/FA), (Gordon Rule Course: Wrtg). Meets Multicultural requirement.

ARH 2051 Western Survey II: Baroque to Contemporary
3 sh (may not be repeated for credit)
Analyzes the Western aesthetic heritage within its cultural context from the seventeenth century to the present. Required of all art majors. Satisfies the lower division requirement, ARH 1050. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/FA) Meets Multicultural requirement.
ARH 3590  Perspectives in Ancient and World Art  
3 sh (may not be repeated for credit)  
The changing interpretations of ancient and world art will be examined in the context of contemporary opinion. Areas in ancient art include prehistoric Europe, Mesopotamia, and Egypt. Emphasis will be placed on the arts of Asia, Africa, Oceania, and the Americas. Meets Multicultural requirement.

ARH 3621  American Art  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2050, ARH 2051  
A comprehensive survey of American painting, sculpture, and architecture from the seventeenth century to the third quarter of the twentieth century.

ARH 3724  History of Graphic Design  
3 sh (may not be repeated for credit)  
An analysis of the history of Graphic Design from its inception through its current role in contemporary society. Explores the historical relationship between graphic design and additional design disciplines such as: fashion, architecture, industrial, furniture and digital media design.

ARH 3871  Women in Art  
3 sh (may not be repeated for credit)  
Investigates the history and issues surrounding the roles of women in the visual arts: women as artists, models, subjects, and patrons. Explores differences in the portrayal of women by both women and men artists. Includes assessment of women’s themes, materials, critical theory, and cultural identities.

ARH 4112  Aegean Bronze Age and Greek Art and Architecture  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 1010 or ARH 2050  
Covers the development of art and architecture during both the Bronze Age in the Aegean area and the Iron Age in the ancient Greek world.

ARH 4150  Etruscan and Roman Art and Architecture  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 1010 or ARH 2050  
Covers the development of ancient art and architecture during both the Etruscan and Roman periods.

ARH 4302  Late Renaissance Art in Italy  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2050 and ARH 2051  
Examines the achievements of Italian artists and architects during the Cinquecento, including the art of Leonardo, Michelangelo, Raphael, Titian, Bramante and other noted masters. Offered concurrently with ARH 5314; graduate students will be assigned additional work. Meets Multicultural requirement.

ARH 4305  Early Italian Renaissance Art  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2050 and ARH 2051  
Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 5315; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4412  Nineteenth Century European Art  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2050 and ARH 2051  
Focuses on the conflict between revolutionary and conservative forces in European art from Neo-Classicism to Symbolism. Offered concurrently with ARH 5440; graduate students will be assigned additional work. Gordon Rule Course: Wrtg. Meets Multicultural requirement. Credit may not be received for both ARH 4412 and ARH 4430.

ARH 4450  Modern Art 1900-1950  
3 sh (may not be repeated for credit)  
Ideas and processes which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 5465; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4470  Art After 1950  
3 sh (may not be repeated for credit)  
Central issues and concepts of contemporary movements in art. Meets Multicultural requirement.

ARH 4652  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 4653  Art and Archaeology of Mesoamerica  
3 sh (may not be repeated for credit)  
Cultural and artistic heritage of the pre-Columbian Mesoamerican region through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5659; graduate students will be assigned additional work. 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.

ARH 4835  Museum and Gallery Studies Practicum  
3 sh (may be repeated for up to 6.0 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 4880  Art in Environment  
3 sh (may not be repeated for credit)  
Examines the history and major concepts of environmental art  
including land art, performance, installation, earthworks, site-specific conceptual, and public art. The innovations, discourses, and controversies will be discussed with an emphasis on the principle ideas, processes, and contexts of the artworks.

ARH 4900  Readings in Art History  
1-3 sh (may be repeated for up to 9.0 sh of credit)  
Prerequisite: Minimum of 2 upper division Art History courses.  
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 4911  Research in Art History  
3 sh (may be repeated for up to 6.0 sh of credit)  
Provides the advanced art history student with an opportunity to design and execute an original research project, one which ideally leads to publication or implementation. May be selected as a capstone experience. (Gordon Rule Course: Wrtg) Permission is required.

ARH 4930  History of Art History Seminar  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2050, ARH 2051.  
Examines the changing perspectives and influences that have affected the discipline, from Vasari’s biographical approach to the post-structuralism of the New Art History. Required for art history majors.

ARH 4955  Museum, Gallery, or Foreign Study Program  
1-6 sh (may be repeated for up to 6.0 sh of credit)  
Deeper understanding of works of art through a direct study of originals. Credit may be given for independent study or course work completed at recognized museums, galleries, foreign universities, or study-abroad programs. Advanced students only. Graded on satisfactory/unsatisfactory basis only. Permission is required.

ARH 5314  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 4302; graduate students will be assigned additional work.

ARH 5315  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 4305; graduate students will be assigned additional work.

ARH 5440  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 through Symbolism. Offered concurrently with ARH 4412; graduate students will be assigned additional work.

ARH 5465  Modern Art 1900-1950  
3 sh (may not be repeated for credit)  
Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 4450; graduate students will be assigned additional work.

ARH 5482  Art After 1950  
3 sh (may not be repeated for credit)  
Central issues and concepts of contemporary movements in art. Offered concurrently with ARH 4470; 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. Graduate students will be assigned additional work.

ARH 5659  Art and Archaeology of Mesoamerica  
3 sh (may not be repeated for credit)  
Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 4653; graduate students will be assigned additional work.

ARH 5715  History of Photography  
3 sh (may not be repeated for credit)  
The history of photography and how it documents, relates to, reflects and shapes history, culture and the arts. Offered concurrently with ARH 4710; graduate students will be assigned additional work.

ARH 5836  Museum and Gallery Studies  
3 sh (may not be repeated for credit)  
Examines in depth the theoretical and practical aspects of museum/gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 4830C; graduate students will be assigned additional work. Permission is required.

ARH 5947  Museum and Gallery Practicum  
1-3 sh (may be repeated for up to 6.0 sh of credit)  
Prerequisite: ARH 5836 or ARH 4830C  
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.

ASIAN HISTORY Courses

ASH 4623  Women in the Muslim World  
3 sh (may not be repeated for credit)  
An interdisciplinary course designed to provide an historical overview of women in the Muslim world (with emphasis on the Middle East). Integrates imaginative literature of non-fiction, readings and visuals from art history, Islam, psychology, religion, history and other academic disciplines as well as Nationalist and Islamist perspectives. Covers historical, theoretical, social and cultural perspectives on a variety of issues as well as how Muslim society has constructed, articulated, manifested, institutionalized and marginalized women.
ASTRONOMY Courses

AST 3033  Modern Astronomy
3 sh (may not be repeated for credit)
Comprehensive survey of the universe and its appearance from earth. Seasons, tides, eclipses. The solar system, stellar evolution and galaxies. Quasars, pulsars, black holes. (General Studies Course: NS/LEC).

BIOCHEMISTRY (BIOPHYSICS) Courses

BCH 3033  Biochemistry I
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210 with C or higher
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
Co-requisite: BCH 3033

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 6107  Thesis
1-6 sh (may be repeated for up to 6.0 sh of credit)
In collaboration with a chemistry faculty member, students will identify a significant biological chemistry oriented research topic. They will perform an extensive review of academic literature, develop testable hypotheses or research questions, gather and analyze experimental data, and write up final conclusions based on results of the experiments. May enroll for more than one term—minimum of 6 sh required for M.S. Biological Chemistry degree. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

BIOLICAL OCEANOGRAPHY Courses

OCB 4104  Marine Field Ecology
2 sh (may not be repeated for credit)
A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 5106; graduate students will be assigned additional work.

OCB 5106  Marine Field Ecology
2 sh (may not be repeated for credit)
A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 4104; graduate students will be assigned additional work.

BIOLOGICAL SCIENCES Courses

BSC 1005  General Biology for Non-Majors
3 sh (may not be repeated for credit)
Survey of abiotic and biotic principles as they apply to basic structural and functional topics at the cellular, organismal, population and community levels; and the application of these principles to issues of current interest. (General Studies Course: NS/LEC).

BSC 1005L  General Biology Laboratory for Non-Majors
1 sh (may not be repeated for credit)
Lab correlating with BSC 1005. Material and Supply Fee will be assessed. (General Studies Course: NS/LAB).

BSC 1050  Fundamentals of Ecology
3 sh (may not be repeated for credit)
Intended for non-majors who have an interest in nature and how they interact with nature. Gives general overview of ecological principles and how these principles influence the outside world around us. Imbedded are several activities that are associated with each chapter. The activities were developed so that the student will gain a respect for ecology as well as show how ecological principles affect your daily life. (General Studies: Natural Sciences, Lecture).

BSC 1085  Anatomy and Physiology I
3 sh (may not be repeated for credit)
General introduction to form and function of the human body. Review of basic anatomical/physiological attributes of integumentary, skeletal, muscular, nervous and sensory organ systems. Designed for students with little or no previous anatomy or physiology experience. Lab optional. (General Studies Course: NS/LEC).

BSC 1085L  Anatomy and Physiology I Laboratory
1 sh (may not be repeated for credit)
Optional lab associated with course. Anatomical dissection and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. (General Studies Course: NS/LAB) Material and supply fee will be assessed.

BSC 1086  Anatomy and Physiology II
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085
Continuation of Anatomy and Physiology I. Reviews basic anatomical/physiological attributes of endocrine, cardiopulmonary, digestive, reproductive and immune systems. Lab optional. (General Studies Course: NS/LEC).

BSC 1086L  Anatomy & Physiology II Laboratory
1 sh (may not be repeated for credit)
Optional lab associated with course. Anatomical dissection and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. (General Studies Course: NS/LAB) Material and supply fee will be assessed.

BSC 1311  Introduction to Oceanography and Marine Biology
3 sh (may not be repeated for credit)
An introduction to the chemical, physical and geological features of the world ocean and the major groups of living marine organisms that inhabit it. Physical chemical and biological interrelationships will be emphasized. Credit not granted toward a major in Biology. (General Studies Course: NS/LEC).
BSC 2311L Introduction to Oceanography and Marine Biology Laboratory
1 sh (may not be repeated for credit)
Lab correlating with BSC 2311. Credit not granted toward a major in Biology. (General Studies Course: NS/LAB) Material and Supply Fee will be assessed.

BSC 3401C Introduction to Forensic Biology
3 sh (may not be repeated for credit)
Students will be exposed to biological evidence they are likely to encounter in their professional activities as a criminal investigator and introduced to some of the techniques used to analyze biological materials. Topics include hair and fiber, blood/body fluid, pollen, pigments, insects, and DNA analysis. Mock crime scenes will be used to introduce various topics and emphasize the need to properly collect and preserve physical evidence in a manner that will permit the laboratory to extract as much additional information as possible from the material. Not open to Biology majors as part of their degree program. Material and Supply Fee will be assessed.

BSC 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours per week must be done at the field site per semester hour of credit. Permission is required.

BSC 3949 Cooperative Education
1-2 sh (may be repeated for up to 4.0 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) Permission of director of Cooperative Education is required. Graded on satisfactory/unsatisfactory basis only.

BSC 4263 Biological Oceanography
3 sh (may not be repeated for credit)
Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physicochemical properties of the pelagic realm. Graduate students will be assigned additional work.

BSC 4303 Biogeography
3 sh (may not be repeated for credit)
Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speculation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 5305; graduate students will be assigned additional work.

BSC 4434 Introduction to Bioinformatics
3 sh (may not be repeated for credit)
A molecular renaissance in biology has produced a wealth of sequence and three-dimensional structure databases. "Mining" of these data with various computational methods to obtain useful information is an emerging interdisciplinary area of study. Students will review structure, function and evolution of proteins and nucleic acids as well as the latest computational methods for retrieval and interpretation of this bioinformation. Offered concurrently with BSC 5459; graduate students will be assigned additional work.

BSC 4854 Bioterrorism
3 sh (may not be repeated for credit)
Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries/groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact will be discussed and played out. Government preparedness to deal with biowarfare/bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 5856; graduate students will be assigned additional work.

BSC 4941 Clinical Experience in Health Care
3 sh (may not be repeated for credit)
Prerequisite: Junior status
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 5308  Climate Change Biology
3 sh (may not be repeated for credit)
Natural processes and anthropogenic activities that are key forces in initiating and determining changes in Earth’s environment on regional and global scales. An overview of Earth’s dynamic environmental history relative to the biosphere, including methods used to reconstruct past climate changes and detect current trends; apparent and potential impacts of recent climate change and ozone depletion on organism and ecosystems with perspectives on future predictions and modeling efforts. Offered concurrently with BSC 4307; graduate students will be assigned additional work. Credit may not be received in both BSC 5308 and BSC 4307.

BSC 5459  Introduction to Bioinformatics
3 sh (may not be repeated for credit)
A molecular renaissance in biology has produced a wealth of sequence and three-dimensional structure databases. "Mining" of these data with various computational methods to obtain useful information is an emerging interdisciplinary area of study. Students will review structure, function and evolution of proteins and nucleic acids as well as the latest computational methods for retrieval and interpretation of this bioinformation. Offered concurrently with BSC 4434; graduate students will be assigned additional work.

BSC 5856  Bioterrorism
3 sh (may not be repeated for credit)
Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries/groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact, will be discussed and played out. Government preparedness to deal with biowarfare/bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 4854; graduate students will be assigned additional work.

BSC 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 6415  Pharmaceuticals: Development, Manufacturing and Testing
3 sh (may not be repeated for credit)
Provides an understanding of the development, manufacturing and testing of pharmaceuticals. The drug development cycle, basic experimental design in the pharmaceutical sciences, FDA issues related to pharmaceuticals, regulations and reports in the development/manufacturing/testing of pharmaceuticals, project management in clinical trials and standards for postapproval changes in pharmaceuticals will be covered.

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 6841  Advances in Biomedical Sciences
3 sh (may not be repeated for credit)
Covers current regional, state, national and international advances in biomedical sciences and implications for current and future health care. Lectures cover recent topics in this area followed by expansion of the information through written assignments for students. Each student will be expected to research through primary literature a series of selected topics and provide a report which will include an assessment of the impact of these discoveries on health care and the potential for fueling additional advancements in the biomedical sciences. Permission is required.

BSC 6941  Internship in Biomedical/Pharmaceutical Industry
6 sh (may not be repeated for credit)
Prerequisite: HSC 6012
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 6941L  Internship in Biomedical/Pharmaceutical Industry Laboratory
3 sh (may not be repeated for credit)
Prerequisite: HSC 6012
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.
Corresponding lab for Aquatic Botany.

Co-requisite: BOT 4404

0 sh (may not be repeated for credit)

BOT 4404L  Aquatic Botany Lab

Assessed for corresponding lab.

 Especially freshwater and marine algae. Material and supply fee will be assessed.

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

BOT 4374L  Plant Developmental Biology Lab

0 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, 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 4503L  Plant Physiology Laboratory

0 sh (may not be repeated for credit)

Co-requisite: BOT 4503

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.

BOT 4734L  Plant Biotechnology Lab

0 sh (may not be repeated for credit)

Co-requisite: BOT 4734

Designed to accompany BOT 4734 and features experiments that demonstrate and reinforce physiological and biochemical principles presented in the lecture. Topics include plant nutrition, enzymology, photosynthesis, respiration, transpiration, plant hormones, and seed germination. Material and supply fee will be assessed. Offered concurrently with BOT 5506L; graduate students will be assigned additional work.

BOT 4404  Aquatic Botany

4 sh (may not be repeated for credit)

Co-requisite: BOT 4404L

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

BOT 4404L  Aquatic Botany Lab

0 sh (may not be repeated for credit)

Co-requisite: BOT 4404

Corresponding lab for Aquatic Botany.
BOT 5376  Plant Developmental Biology
4 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 5376L
Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4374; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 5376L  Plant Developmental Biology Laboratory
0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 5376
Is designed to accompany BOT 5376. Features experiments that demonstrate and reinforce developmental processes presented in the lecture. Topics include cell division and elongation, phototropism, gravitropism, photoperiodism, seed germination, senescence, and plant tissue culture. Offered concurrently with BOT 4374L; graduate students will be assigned additional work. Material and supply fee will be assessed.

BOT 5506  Plant Physiology
4 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or ZOO 1010
Co-requisite: BOT 5506L
Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4503; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 5506L  Plant Physiology Lab
0 sh (may not be repeated for credit)
Co-requisite: BOT 5506
Corresponding lab for Plant Physiology.

BOT 5735  Plant Biotechnology
4 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 5735L
Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and re-enforces the principles presented in lecture. A material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 4734; graduate students will be assigned additional work.

BOT 5735L  Plant Biotechnology Lab
0 sh (may not be repeated for credit)
Co-requisite: BOT 5735
Corresponding lab for Plant Biotechnology.

BOT 5852  Medicinal Botany
3 sh (may not be repeated for credit)
Prerequisite: BOT 2010
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.

BUILDING CONSTRUCTION Courses
BCN 2272  Blueprint Reading
3 sh (may not be repeated for credit)
The reading of construction blueprints is a foundational skill in construction. All construction professionals, regardless of specific profession, must know how to read blueprints. Course provides foundational knowledge and enough practice at reading blueprints to give a basic understanding as well as the requirements for the GC Exam. Students are required to purchase a set of scales: architectural and engineering.

BCN 2405  Statics and Strength of Materials
3 sh (may not be repeated for credit)
Analysis and strength of structural elements for buildings, bridges and specialized structures that utilize steel and timber and concrete. Covers the statics of particles, rigid bodies, friction, strengths of materials such as wood, steel and concrete.

BCN 3224  Construction Materials and Methods
3 sh (may not be repeated for credit)
Methods of how buildings are constructed - as they relate to the changing materials, methods and technologies - are explored. Focusing on the most common and practical building materials and methods, students will learn “means and methods” of construction through instructor guidance, class demonstrations, and hands-on experiences.
BCN 3281C Construction Survey and Building Layout
3 sh (may not be repeated for credit)
Application of surveying skills required in the field of construction, including building layout, indirect determination of elevation and distance, referencing, establishment of grade, and topographic mapping. Instruments used will include transit and automatic level.

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)

BCN 4258C Project Conceptualization
3 sh (may not be repeated for credit)
Prerequisite: BCN 2272 and BCN 3224
Introduction to 3D Modeling software for Building Information Modeling (BIM). Activities are designed to provide in-depth theory with the use of BIM information and the impact on construction contracts and processes. There is a downloadable free BIM program that will be used but the student must have their own computer to load the program and use it for this course.

BCN 4431 Structures
3 sh (may not be repeated for credit)
Prerequisite: BCN 2405
Analysis and design of structural elements for buildings, bridges and specialized structures which utilize steel and timber. Includes the evaluation of beam shear, deflection, bearing and moment, plus column behavior, along with their connectors for both steel and timber, including laminates and plywood.

BCN 4461 Soils, Concrete, and Masonry
3 sh (may be repeated for up to 0.0 sh of credit)
Prerequisite: BCN 4431
Analysis and design of concrete elements as related to construction, including forms, formwork design and form materials. Examination of reinforced concrete strength design methods as well as codes and safety as they apply to concrete structures.

BCN 4564 Construction Mechanics II
3 sh (may not be repeated for credit)
Prerequisite: BCN 3561
Examination of heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting. A construction site visit is included.

BCN 4701 Construction Administration
3 sh (may not be repeated for credit)
Overview of the construction industry and professional requirements of management, administration and project management in construction environments. Consideration of information required to sit for the contractor’s examination.

BCN 4720C Scheduling
3 sh (may not be repeated for credit)
Prerequisite: BCN 4701 and MAN 3583
Scheduling for construction project management is a critical skill in construction. An overview of scheduling techniques, applications, and software packages available; Primavera, a scheduling software package, will be used.

BCN 4940 Construction Internship/Senior Project
3 sh (may not be repeated for credit)
Field-based experience where students work in real-world situations with industry professionals. Permission is required.

BUSINESS LAW Courses

BUL 3130 Legal Environment of Business
3 sh (may not be repeated for credit)
Background of law and legal environment of business, including administrative, social, political and ethical aspects. Coverage of law includes contracts, sales under Uniform Commercial Code, negotiable instruments and personal and real property.

BUL 4602 Legal Fundamentals of Healthcare and Public Health
3 sh (may be repeated for up to 6.0 sh of credit)
An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public’s health is examined with an analysis public health authority. A general overview of the laws controlling the provision of private sector healthcare including industry and professional regulation, prohibited payment schemes, Bioethics, end-of-life issues, informed medical consent, and patient privacy. Offered concurrently with BUL 5605; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.
CHEMICAL OCEANOGRAPHY Courses

OCC 4002  Chemical Oceanography
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L

The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topics covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, digenesis, and air-sea gas exchange.

OCC 4414  Global Biogeochemical Cycles
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L

The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.

CHEMISTRY Courses

CHM 1020  Concepts in Chemistry
3 sh (may not be repeated for credit)

Introduces the non-scientist to current and critical issues in chemistry. Readings from popular science publications. Discussion on topics such as polymers, radioactivity, toxic chemicals, energy, etc. Registration for the corresponding lab is encouraged but not required. (General Studies Course: NS/LEC).

CHM 1020L  Concepts in Chemistry Lab
1 sh (may not be repeated for credit)
Prerequisite: CHM 1020
Co-requisite: CHM 1020

Introduction to laboratory safety, experimental techniques. Laboratory experiments on polymers, radioactivity, toxic chemicals, energy, etc. Material and supply fee will be assessed. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 1032  Fundamentals of General Chemistry
3 sh (may not be repeated for credit)

A one semester course presenting an introduction to the principles of general chemistry. Designed for students majoring in sciences other than biology and chemistry. Cannot be used to satisfy major requirements in chemistry or biology. (General Studies Course: NS/LEC).

CHM 1032L  Fundamentals of General Chemistry Laboratory
1 sh (may not be repeated for credit)
Co-requisite: CHM 1032

Laboratory experiences illustrating the fundamental principles of CHM 1032. Students taking CHM 1032 concurrently are required to withdraw from CHM 1032L if they withdraw from CHM 1032. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses. Material and supply fee will be assessed.

CHM 2045  General Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1140 or MAC 2311; all C- or better

Chemical and physical properties, relationship between observables and concepts and the development of a theoretical framework. Topics will include atomic and molecular structure, theories of bonding, properties of the elements and periodicity. (General Studies Course: NS/LEC) A grade of "C-" or higher is required in prerequisite courses.

CHM 2045L  General Chemistry I Laboratory
1 sh (may not be repeated for credit)
Co-requisite: CHM 2045

Introduction to laboratory safety, experimental techniques, graphing of data, chemical reactivity and separations, calorimetry and volumetric analysis. Material and supply fee will be assessed. Students taking CHM 2045 concurrently are required to withdraw from CHM 2045L if they withdraw from CHM 2045. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 2046  General Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045 with C- or better

Continuation of CHM 2045 with emphasis on chemical calculations and problem solving. Topics include thermodynamics, equilibria, kinetics and an introduction to transition metal complexes. (General Studies Course: NS/LEC) A grade of "C-" or higher is required in prerequisite courses.
CHM 2046L  General Chemistry II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2045L, CHM 2046
Co-requisite: CHM 2046
Experiments based on colligative properties, qualitative analysis, solution equilibria, kinetics, electrochemistry, radioactivity and synthesis. Material and supply fee will be assessed. Students taking CHM 2046 concurrently are required to withdraw from CHM 2046L if they withdraw from CHM 2046. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 2205  Fundamentals of Organic and Biochemistry Laboratory
3 sh (may not be repeated for credit)
Prerequisite: CHM 1032
Co-requisite: CHM 2205L
Terminal course in organic chemistry with biochemical applications. Nomenclature, reactions of functional groups, introduction to biochemistry. Cannot be used to satisfy major requirement in chemistry or biology. A grade of "C-" or better is required in prerequisite courses. Material and Supply fee will be assessed for corresponding lab.

CHM 2205L  Fundamentals of Organic and Biochemistry Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2205
Co-requisite: CHM 2205
Isolation, purification and synthesis, carbohydrates, amino acids, peptides and isoprenoids. Material and Supply fee will be assessed. Students taking CHM 2205 concurrently are required to withdraw from CHM 2205L if they withdraw from CHM 2205. A grade of "C-" or higher is required in prerequisite courses. Credit cannot be received for both CHM 2205L and CHM 2200L.

CHM 2210  Organic Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: CHM 2046 with C- or better
Nomenclature, structure, fundamental reactions, mechanistic interpretation of reactions, and spectroscopy.

CHM 2210L  Organic Chemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046L and CHM 2210 with a C- or better
Co-requisite: CHM 2210
Introduction to laboratory techniques in Organic Chemistry. Isolation, purification, and synthesis. Material and supply fee will be assessed. Students taking CHM 2210 concurrently are required to withdraw from CHM 2210L if they withdraw from CHM 2210. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211  Organic Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210 with C- or better
Nucleophilic and electrophilic substitution reactions, additions, eliminations, redox and rearrangement reactions, carbohydrates, amino acids, peptides, isoprenoids. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211L  Organic Chemistry II Lab
1 sh (may not be repeated for credit)
Prerequisite: CHM 2210L, CHM 2211
Co-requisite: CHM 2211
Multistep synthesis, separation of mixtures, identification of unknown organic compounds by classical and spectroscopic techniques. Material and supply fee will be assessed. Students taking CHM 2211 concurrently are required to withdraw from CHM 2211L if they withdraw from CHM 2211. A grade of "C-" or higher is required in prerequisite courses.

CHM 3120  Analytical Chemistry
4 sh (may not be repeated for credit)
Prerequisite: CHM 2045 and CHM 2046
Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and Supply Fee will be assessed. 8 sh of general chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3120L  Analytical Chemistry Lab
0 sh (may not be repeated for credit)
Prerequisite: CHM 2046L
Co-requisite: CHM 3120
Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and Supply Fee will be assessed. 8 sh of general chemistry required. A grade of 'C-' or better is required in the prerequisite.

CHM 3230  General Chemistry III
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210, CHM 2210L, CHM 2211 and CHM 2211L
Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometallics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8sh of organic chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3400C  Basic Physical Chemistry
4 sh (may not be repeated for credit)
Prerequisite: CHM 2211, MAC 2312; either PHY 2048 or PHY 2054
A survey of the principles of Structure, Equilibrium, and Dynamics, applied to chemical systems. Includes experiments and other hands-on learning experiences.

CHM 3410  Physical Chemistry I
5 sh (may not be repeated for credit)
Prerequisite: CHM 2211, MAC 2312, PHY 2049, PHY 2049L. All with C- or better.
Properties of gases, kinetic theory, chemical thermodynamics, heterogeneous equilibria, electrochemistry. A grade of "C-" or higher is required in prerequisite courses.

CHM 3411  Physical Chemistry II
4 sh (may not be repeated for credit)
Prerequisite: CHM 3410
Atomic, molecular structure, spectroscopy, introduction to quantum theory and statistical mechanics. A grade of "C-" or higher is required in prerequisite courses.
CHM 3740L Advanced Laboratory Techniques  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 2211L, CHM 3230  
Co-requisite: CHM 3230  
Experimental work including advanced laboratory techniques for the synthesis and purification of organic, organometallic and inorganic complexes. Training in the use of instrumentation (chromatographic techniques, NMR, GC/MS, IR, UV-Vis, ORD/CD, etc.) for the purification and characterization of these materials. Students will be introduced to the use of the chemical literature, as well as record keeping and report writing. Material and supply fee will be assessed.

CHM 3741L Physical Chemistry Laboratory  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 3740L  
Co-requisite: CHM 4111  
Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

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 4130 Instrumental Analysis  
3 sh (may be repeated for up to 4.0 sh of credit)  
Prerequisite: (CHM 3411 or CHM 3400C) and CHM 3120  
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 in prerequisite courses. Offered concurrently with CHM 5134; graduate students will be assigned additional work.

CHM 4130L Instrumental Analysis Lab  
1 sh (may not be repeated for credit)  
Prerequisite: (CHM 3411 or CHM 3400C) and CHM 3120  
Co-requisite: CHM 4130  
Corresponding lab for Instrumental Analysis lab.

CHM 4135 Introduction to Polymer Science  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHM 3410 or CHM 3400C.  
Co-requisite: CHM 4455L  
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, CHM 2210L, CHM 2211, CHM 2211L, CHM 3410 or CHM 3400C  
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 4456 Introduction to Polymer Science  
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 4912 Undergraduate Chemistry Research  
2-4 sh (may be repeated for up to 8.0 sh of credit)  
Prerequisite: CHM 3411 or CHM 3400C  
Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CHM 4931 Seminar: Special Topics in Advanced Chemistry  
3-4 sh (may be repeated for up to 7.0 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 4932 Seminar: Special Topics in Advanced Chemistry  
1 sh (may be repeated for up to 2.0 sh of credit)  
Prepares students for careers in chemistry. Seminars by visiting scientists, university faculty and students on current research in chemistry, professional ethics, hazard waste regulations, resume writing and job interview techniques. Graded on a Satisfactory/Unsatisfactory basis only.
CHM 5134  Instrumental Analysis
4 sh (may not be repeated for credit)
Prerequisite: CHM 3411 or CHM 3400C; and CHM 3120
Co-requisite: CHM 5134L

Physical chemical methods of chemical analysis. Required lab. Material and Supply Fee will be assessed for corresponding lab. A grade of "C-" or higher is required for all prerequisite courses. Offered concurrently with CHM 4130; graduate students will be assigned additional work.

CHM 5134L  Instrumental Analysis Lab
0 sh (may not be repeated for credit)
Prerequisite: (CHM 3411 or CHM 3400C) and CHM 3120
Co-requisite: CHM 5134

Physical chemical methods of chemical analysis. A grade of "C-" or higher is required for prerequisite courses. Offered concurrently with CHM 4130L; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

CHM 5932  Seminar: Special Topics in Advanced Chemistry
3-4 sh (may be repeated for up to 7.0 sh of credit)
Prerequisite: CHM 3411 or CHM 3400C

Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 4930; graduate students will be assigned additional work.

CHINESE Courses

CHI 1100  Chinese Language I
3 sh (may not be repeated for credit)

An introduction to Mandarin, the official Chinese language. Designed for students with no previous knowledge of Chinese. Helps students obtain an adequate mastery of basic language skills in both spoken and written Chinese and develop a foundation for further study of the language.

CLINICAL PSYCHOLOGY Courses

CLP 3144  Abnormal Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

A 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 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.

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 5166  Psychopathology
3 sh (may not be repeated for credit)
Prerequisite: CLP 3144

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.

COMMUNICATION Courses

COM 3404  Nonverbal Communication
3 sh (may not be repeated for credit)
Prerequisite: SPC 3301

Provides a comprehensive introduction to the role of nonverbal communication in the communication process, including major principles, theories, and research trends. Emphasis on observing and analyzing the functions of nonverbal communication in a variety of work and personal contexts.

COM 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlations between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours’ work per week must be done at the field site per semester hour of credit.

COM 4014  Gender and Communication
3 sh (may not be repeated for credit)

Examines the roles gender plays in managing diversity in the workplace, developing personal relationships and exploring mass media in contemporary culture. Comparative study of characteristics of masculine/feminine communication in conversation. Meets Multicultural requirement.
COM 4022  Health Communication
3 sh (may not be repeated for credit)
Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education, and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 5025; graduate students will be assigned additional work.

COM 4103  Leadership Communication
3 sh (may not be repeated for credit)
Promotes leadership development through study of leadership theory and concepts and practical application of leadership laboratory experience. Based on a servant leader philosophy, focuses on building leadership competencies in interpersonal communication, public presentations, team building, working in multicultural environments, mentoring, problem solving and influence strategies used in interpersonal and public forums to bring about community and organizational change. Leadership skill-building opportunity to all participants.

COM 4110  Business and Professional Communication
3 sh (may not be repeated for credit)
Practical understanding of communication practices affecting the workplace. Emphasis on managing work relationships, listening, organizational interviews, professional presentations, communication technologies and multi-cultural diversity.

COM 4120  Organizational Communication
3 sh (may not be repeated for credit)
Examines the dynamics of communicating within organizations and with stakeholders. Students analyze case studies of actual organizations and build skills related to teamwork, motivation, morale-building, leadership, decision-making, and more.

COM 4465  Conflict Management
3 sh (may not be repeated for credit)
Provides in-depth exposure to communication processes, strategies, and stages involved in conflict management and negotiation. Emphasis placed on application of competent communication behavior during conflict in personal and professional situations. Involves hands-on student learning project wherein students act as facilitators to help other students resolve conflicts.

COM 4620  Communication Ethics
3 sh (may not be repeated for credit)
Guides students in examining ethical considerations in business and public life. Includes diverse ethical perspectives, critical methods of analysis, and greater awareness of the role ethics plays in everyday life.

COM 4940  Internship in Communication
1-3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: Senior standing, 2.7 overall GPA
Supervised field practicum in a communication-related position, to include advertising, broadcast and print journalism, telecommunications and film, organizational communication and public relations. Senior standing and a 2.7 overall GPA is required. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

COM 5005  Introduction to Graduate Studies in Communication
1.5 sh (may not be repeated for credit)
Designed to introduce graduate students to critical elements of graduate studies in communication. Central topics include mastering the basics of APA style, honing analytic writing skills related to the study of communication, instructional resources, academic integrity issues unique to communication, and the history of the communication discipline.

COM 5025  Health Communication
3 sh (may not be repeated for credit)
Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 4022; graduate students will be assigned additional work. Graduate standing is required.

COM 5206  Communication Training
3 sh (may not be repeated for credit)
Prepares students to design and conduct communication skills training for professionals. Emphasizes adult learning, conducting needs assessments, establishing training objectives, using communication technology and evaluating training efforts. Involves a hands-on student learning project in which students conduct needs assessments and present two-hour workshops for local professional organizations. Other majors must confer with instructor regarding comparable prerequisites. Offered Fall of every other year.

COM 5335C  Computer Mediated Communication
1.5 sh (may not be repeated for credit)
A seminar-style course covering practical and theoretical issues associated with how people use computers in their business, social, political, cultural, educational, and person activities. The approach is socio-psychological in nature, examining how communication technology is used to establish and expand personal identity, create interpersonal relationships and manage the tide of information represented by the Internet.

COM 5933  Special Topics in Communication
3 sh (may not be repeated for credit)
Offered Fall of every other year. Majors must confer with instructor regarding comparable prerequisites.

COM 5995  Special Topics in Communication
3 sh (may not be repeated for credit)
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.

COM 6025  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 6025  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 6025  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 6027  Health Communication Leadership Project  
3 sh (may not be repeated for credit)  
Guides participants through the completion and implementation of a final project, building on the knowledge and skills acquired in other courses. Permission is required.

COM 6028  Health Communication Leadership Capstone  
3 sh (may not be repeated for credit)  
Prerequisite: COM 6312, MAN 5047, MAN 6156 and MAN 6285  
A series of workshops aimed at helping students synthesize their experience in both the Health Communication Certificate courses and the Organizational Development Leadership courses. Permission is required.

COM 6129  Assessing Organizational Dynamics  
3 sh (may not be repeated for credit)  
Applying systems thinking to analyze the dynamics of communication within an actual organization. Emphasis on deep-level analysis to reveal who talks to whom, when, why, and about what. Goals are (1) to reveal communication patterns and assumptions that make it either easy or difficult to achieve high quality organizational production and (2) to help organizational members design processes that foster the creation of high-performance, high-capacity teams.

COM 6207  Advanced Communication Leadership  
3 sh (may not be repeated for credit)  
Based on a hands-on leadership project informed by the study of leadership communication theory, research, and case studies. Emphasis is on developing communication skills, strategy, and awareness to enhance leaders' effectiveness. Permission is required.

COM 6210  Emerging Topics in Nonprofit Organizational Communication  
1.5 sh (may not be repeated for credit)  
Exploration of current communication issues and challenges facing today's nonprofit organizations. Emphasizes the development of strategies to address these issues through case studies, course readings, and by studying the communication challenges of local nonprofit organizations.

COM 6312  Advanced Communication Research Methods  
3 sh (may not be repeated for credit)  
This course addresses the philosophy of scientific research including the origins, nature, and effects of communication processes. Focuses on both theoretical and applied research. Primary emphasis is on 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 6511  Emerging Topics in Political Communication  
1.5 sh (may not be repeated for credit)  
Advanced political communication theory and current practice that focuses on consultancy-based political campaigning, government advocacy and public relations. Particular emphasis is on the critical analysis of advocacy texts and development of strategic plans for campaign communication.

COM 6525  Strategic Communication  
3 sh (may not be repeated for credit)  
Provides a conceptual framework for strategic communication, sharpens analytical and critical thinking, and provides a unifying function for the Strategic Communication & Leadership Program. Addresses all aspects of the development and execution of communication programs. Offers "real world" experience through the analysis of case studies. Case studies and coursework will be drawn from the profit, non-profit, product, and service sectors. Particular attention will be paid to sociopsychological, legal, and ethical issues as they relate to the decision-making process.

COM 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 6930  Organizational Communication Project  
1-6 sh (may be repeated for up to 6.0 sh of credit)  
Advanced research project for a major corporate or organizational client. Working with a client organization, students will identify a problem for study, perform an extensive review of issues related to the project, develop several testable research questions or hypotheses about the problem, gather and analyze qualitative and/or quantitative data, and write an extensive report, including summary conclusions based on the study. May enroll for more than one term, minimum of 6sh required for M.A. degree. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

COM 8980  Dissertation  
1-6 sh (may be repeated for up to 18.0 sh of credit)  
Prerequisite: Admission to candidacy and permission is required.  
Designed specifically for students pursuing a Doctorate of Education degree at UWF and specializing in Social Sciences/Communication Arts. Involves in-depth study of communication theory and research, as guided by a major professor and doctoral committee. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

COMMUNITY PSYCHOLOGY Courses

CYP 6005  Community Psychology  
3 sh (may not be repeated for credit)  
Introduces the student to the field of community psychology which is the branch of psychology that seeks to understand relationships between environmental conditions and the development of health and well-being of all members of a community. Students will study the development of the field of community psychology and its theories and paradigms of research and action. Additionally, students will concentrate on the practice of community psychology.

CYP 6538  The Consultation Process  
3 sh (may not be repeated for credit)  
Addresses the historical roots of mental health consultation, basic concepts in mental health consultation, the consultation process, and the various types of mental health consultation. Considerable emphasis is given to working within public schools and consulting with outside agencies. Consultation is defined and contrasted to other helping relationships, and definitional issues are addressed. Includes a discussion of the skills and characteristics of the consultant, and ethical and legal considerations.
COMPARATIVE POLITICS Courses

CPO 2002  Comparative Politics
3 sh (may not be repeated for credit)
Examination of political processes and political institutions in selected foreign countries such as Britain, France, Germany, USSR, Japan and India. Methods of cross-national political analysis. (General Studies Course: SS/SOC) Meets Multicultural requirement.

CPO 3055  Dictatorships
3 sh (may not be repeated for credit)
The course will carry out a comparative analysis of dictatorships across time and space, with special attention paid to 20th century totalitarian regimes, including those of Hitler, Stalin, and Mao. The analysis will focus on some of the causes for the rise and fall of these dictatorships, their ruling personalities and methods, the costs imposed on their subject populations, and their long-term effects on the politics of their representative countries. The course will begin with selections from classic writings on tyranny from Plato, Aristotle, Suetonius, and Machiavelli. Then, using scholarly texts, novels, and films, we will examine historical cases from several continents, drawing parallels and contrasts across them.

CPO 3103  Politics of Western Europe
3 sh (may not be repeated for credit)
Political processes and institutions of selected European political systems. Meets Multicultural requirement.

CPO 3322  Cuba, Castro and the USA
3 sh (may not be repeated for credit)
The course will carry out an analysis of Cuban politics, domestically and in relation to the USA, from the outbreak of the Spanish-American War to the present, with special emphasis on the Castro era (i.e., 1959 to the present). The analysis will compare Cuba’s standard of living, nature and structure of standing before Fidel Castro seized power in the early years of the Cuban Revolution and at different times during his nearly 50-year reign. Some attention will be paid to how Cubans who came to the USA after Castro have fared, especially politically.

CPO 3513  Politics of the Far East-Japan and China
3 sh (may not be repeated for credit)
Political systems of China and Japan offer striking comparisons to each other and to the United States. They provide two non-Western cultural contexts within which some Western political ideas and institutions operate. Meets Multicultural requirement.

CPO 3614  Politics of Eastern Europe
3 sh (may not be repeated for credit)
This course follows the transition from communism to democratization through democratic consolidation in Eastern Europe. It explores the question: how democratic are they today, nearly a decade and a half after the collapse of communism? Emphasis is on the changes in post-Soviet states, their organization and political culture and identity, and contemporary issues. Several countries will be considered in greater depth, including Poland, the Czech Republic, Hungary, and East Germany. Specific issues will be addressed across Eastern Europe, including the communist legacy, economic development, interest group emergence, social problems, civil society challenges, and nationalism.

CPO 3773  Great World Leaders
3 sh (may not be repeated for credit)
Reviews ancient and contemporary theories of political leadership, contrasting leadership in democratic and dictatorial regimes in the context of case studies around the world, across continents and time periods. Meets Multicultural requirement.

CPO 4303  Politics of Spain, Portugal, and Latin America
3 sh (may not be repeated for credit)
The politics of Spain, Portugal, and the largest Latin American countries (Argentina, Brazil, Mexico) and, as time permits, other countries of particular concern to the United States. Meets Multicultural requirement.

CPO 4314  Democracies
3 sh (may not be repeated for credit)
Democratic theory and practices around the world. Types of transition, founding elections, and problems of democratic consolidation.

CPO 4792  Geopolitics
3 sh (may not be repeated for credit)
Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold war period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relates to the larger issue of state power and US national policy. Offered concurrently with CPO5797 graduate students will be assigned additional work.

CPO 5797  Geopolitics
3 sh (may not be repeated for credit)
Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold war period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relates to the larger issue of state power and US national policy. Graduate students will be assigned a substantial research project from which they will lead the class on their specific subject. They will also lead their respective teams in the research of an international maritime case study to demonstrate the complexity of dealing with inter-national law. This course is dual-listed with CPO 4792.

CPO 6006  Seminar in Comparative Politics
3 sh (may not be repeated for credit)
Comparison and analysis of political systems, theoretical and empirical.

COMPUTER APPLICATIONS (FOR COMPUTER SCIENTISTS) Courses

CAP 3028  Introduction to Computer Game Programming (Graphic Symbols and Animations)
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Design and implementation of various elements of computer game programming with popular commercial software. Includes creation and manipulation of graphics and text symbols which include masking, transformations, use of different types of animations such as frame by frame animation, shape tweening, motion tweening and streamline animation to promote visually attractive movie clips. Upon completion of the course, students will be able to design and develop an interactive adventure game.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Repeatable</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 4029</td>
<td>Game Programming 2</td>
<td>3 sh</td>
<td>No</td>
<td>CAP 3028</td>
<td>Design and implementation of various elements of 3D computer game programming with popular commercial software. Includes creation, manipulation, and rendering of 3D graphics and text symbols. Object oriented design of games, GUI for games, and role of finite state machines in game development will be discussed. A discussion on game modeling will also be included.</td>
</tr>
<tr>
<td>CAP 4033C</td>
<td>3D Modeling and Animation</td>
<td>3 sh</td>
<td>No</td>
<td>COP 2334 or COP 2253 or COP 2830</td>
<td>Introduction to basic principles of 3D modeling and animation. Students use popular commercial software to create 3D models and animation. Students will be introduced to aspects of 3D modeling and animation which include working with objects, models, textures, lighting, particle effects and rendering. Permission is required.</td>
</tr>
<tr>
<td>CAP 4053</td>
<td>AI Programming for Interactive Environments</td>
<td>3 sh</td>
<td>No</td>
<td>CAP 4601</td>
<td>Introduction to the use of AI programming for the development of interactive environments including games and educational environments. Fundamental AI implementation techniques including agent-based architectures, learning algorithms, and path-finding algorithms.</td>
</tr>
<tr>
<td>CAP 4601</td>
<td>Artificial Intelligence</td>
<td>3 sh</td>
<td>No</td>
<td>CAP 4601</td>
<td>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.</td>
</tr>
<tr>
<td>CAP 4710</td>
<td>Computer Graphics and Simulation</td>
<td>3 sh</td>
<td>No</td>
<td>MAC 2312, MAS 3105</td>
<td>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 &amp; Engineering.</td>
</tr>
<tr>
<td>CAP 4770</td>
<td>Data Mining</td>
<td>3 sh</td>
<td>No</td>
<td>COP 4710 or COP 5725</td>
<td>Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining, decision tree induction, bayesian classification and prediction, and cluster analysis. Offered concurrently with CAP 4770; graduate students will be assigned additional work. Students who have taken CAP 4770 cannot earn credit for this course.</td>
</tr>
<tr>
<td>CDA 3101C</td>
<td>Introduction to Computer Organization</td>
<td>4 sh</td>
<td>No</td>
<td>COP 2334 or COP 2253 or EEL 4834</td>
<td>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. The course will include several laboratory projects.</td>
</tr>
<tr>
<td>CDA 6415</td>
<td>Advanced Computer Systems</td>
<td>4 sh</td>
<td>No</td>
<td>COP 2334 or COP 2253 or MAC 3101</td>
<td>Examines current advancements in computer hardware, the operating systems facilities required for those advances, and the programming practices needed to take advantage of them. Topics include pipelined, hyperthreaded and multicore processors, scheduling algorithms, cache, memory management, and nontraditional hardware. Permission is required.</td>
</tr>
<tr>
<td>CEN 3031</td>
<td>Software Engineering I</td>
<td>3 sh</td>
<td>No</td>
<td>COP 2334 or COP 2253</td>
<td>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.</td>
</tr>
<tr>
<td>CEN 3032</td>
<td>Software Engineering II</td>
<td>3 sh</td>
<td>No</td>
<td>COP 3530C, CEN 3031 and CIS 3512</td>
<td>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.</td>
</tr>
<tr>
<td>CEN 4053</td>
<td>Software Engineering Management</td>
<td>3 sh</td>
<td>No</td>
<td>CEN 3032</td>
<td>Reviews concepts and principles related to the management of software development and evolution projects.</td>
</tr>
</tbody>
</table>
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: COP 2334 or COP 2253 or COP 2830

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 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 4910  Undergraduate Computer Science Research
1-4 sh (may be repeated for up to 7.0 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 5915  Graduate Computer Science Research
1-4 sh (may be repeated for up to 4.0 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 6015  Graduate Computer Science Research
1-4 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: CEN 6064, CEN 6070, CEN 6075

Capstone course in the master’s program in Software Engineering. Normally students take 3sh in each of two consecutive semesters for a total of 6sh. Focuses on the concepts of Software Engineering Process and Software Process Maturity. Lectures and student seminar presentations explore current best practices in these areas. The team project normally involves maintaining and enhancing an existing software system while following a detailed defined software process. Teams usually consist of 12-15 students, with each team member having different responsibilities as defined by the process. Occasionally, special individual projects can be arranged, provided that they are approved by the Department before the beginning of the first semester of registration. Not open to CS specialization graduate students. Permission is required.

CEN 6016  Software Engineering Process
4 sh (may not be repeated for credit)
Review of current topics and trends in software engineering. Prominent software engineering approaches, methods, and processes (e.g., CMMI, Agile processes) are examined and compared. Culminates with a detailed study of one specific software engineering process.

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

CEN 6064  Software Design
4 sh (may not be repeated for credit)
Prerequisite: CEN 6016

Examination of the design principles/methodologies appropriate for developing complex software systems. Goals include comparative analysis of existing design methods, object-oriented design paradigms, and the extensions of modern design techniques and principles to the design of software with distributed implementations in mind.
CEN 6070  Software Testing and Verification  
3 sh (may not be repeated for credit)  
Prerequisite: CEN 6016  
Introduction to the main concepts and methods used to produce correct software. Focuses on software quality assurance through systematic software testing. Students learn to create test sets that exercise software to specified coverage standards and to conduct software inspections. Other verification and validation methods selected by the instructor are also introduced.

CEN 6074  Software Assurance and Security  
3 sh (may not be repeated for credit)  
Prerequisite: CEN 6016  
Concepts and principles related to developing and maintaining secure software systems with no exploitable vulnerabilities with high levels of integrity and reliability.

CEN 6075  Software Specification and Implementation  
3 sh (may not be repeated for credit)  
Prerequisite: CEN 6016  
Study of the concepts and importance of software specification as an essential stage in the development of a software product. Students learn to prepare software specifications using both formal specification techniques and informal text-based specifications that follow a standard model.

CEN 6095  Software Engineering Practice and Tools  
4 sh (may not be repeated for credit)  
Prerequisite: CEN 6016 COP 5007 CEN 5003  
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 6930  Advanced Topics in Computer Software and Engineering  
3 sh (may not be repeated for credit)  
Selected topics in computer software and engineering. Prerequisites will vary according to specific subject material to be covered.

COMPUTER ENGINEERING TECHNOLOGY Courses

CET 3135  Microcontroller Technology  
3 sh (may not be repeated for credit)  
Exploration of a wide range of topics in guiding students through real-time control software and interfacing, concentrating on applications of microcontroller.

CET 3135L  Microcontroller Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: MAC 1105  
Co-requisite: CET 3135  
Laboratory for CET 3135 Microcontrollers. Application of microcontrollers in various real-world settings.

CET 3450  Data Visualization  
3 sh (may not be repeated for credit)  
Students will develop skills to efficiently and effectively display data, using a variety of tools that can be used to prepare and present the data in visually compelling manners. Data visualization tools have wide applicability in a wide variety of settings and environments in documentation and presentations.

COMPUTER GENERAL STUDIES Courses

CGS 2060  Excursions in Computing  
3 sh (may not be repeated for credit)  
Explore and understand the role of computing in today's highly technological world. Examine the effective and ethical use of computing technology to address general and specialized domains and practice project delivery deadlines involving this technology. Topics include: role of computing, recent advances in computer hardware, system software options, system connectivity, time management and presentation technology, tools for researching current technology, algorithms, and limits of computing ethics. (General Studies Course: NAT/LEC).

CGS 2060L  Excursions in Computing Lab  
1 sh (may not be repeated for credit)  
Computing experiments in a contemporary interactive environment. Experiments will reinforce the omnipresence of computing in society. General Studies Course (NS: LEC).

CGS 2570  Personal Computer Applications  
3 sh (may not be repeated for credit)  
Internet Based online course, which provides practical experience with current popular microcomputer application packages. Students typically learn to use word-processing, spreadsheet, database software, and PowerPoint. Required for CIS majors but may not be taken for credit by CS majors.

CGS 3183  Web Design for E-Commerce  
3 sh (may not be repeated for credit)  
Prerequisite: CGS 2570 or CGS 3853  
Introduces the student to the concepts and principles of designing software tools used in web applications for electronic commerce. The student will gain hands on experience in developing, manipulating, and implementing web tools for electronic transactions such as a web database and an electronic shopping cart.

CGS 3284  Network Management and Design  
12 sh (may not be repeated for credit)  
Develops the skills required to successfully manage and troubleshoot the ongoing needs of Microsoft Windows 2000 and 2003 server-based operating system environments, including Windows.Net Server. May not be taken for credit by CS/CIS majors. Permission is required.

CGS 3464  Programming Using Visual Basic for Non-Majors  
3 sh (may not be repeated for credit)  
An introductory course in programming for non-majors. Incorporates the basic concepts of programming, programming logic and problem solving, as well as the design features of a visual, event driven language. Students will use a visual interface to program useful applications Assumes no prior computer knowledge. May not be taken for credit by CS/CIS majors.

CGS 3523  Computer Graphics Applications  
3 sh (may not be repeated for credit)  
Introduces the student to concepts of computer graphics applications, including graphics capabilities of text processing systems, paint programs, scanning and digitizing, photo enhancing, 2 and 3 dimensional systems, video, animation, and Internet based resources with applications and demos of a variety of software packages. May not be taken for credit by CS/CIS majors.
CGS 3559 Exploring the Internet
3 sh (may not be repeated for credit)
Introduces the student to the Internet, using the Internet itself as the main source of information. Tools, including World Wide Web browsers, mail programs and other electronic devices will be presented and used. At the end of the course the student should be able to recognize the extent, capabilities, advantages, and problems involving the Internet. May not be taken for credit by CS/CIS majors.

CGS 3604 Applications of Information Technology
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570; either 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.

COMPUTER NETWORKS Courses

CNT 4007C Theory and Fundamentals of Networks
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 or COP 2334 or COP 2830
A functional systematic examination of the key components and theories of modern computer networks, including protocol stack, mobile networking, network security, multimedia networking and network management. Emphasizes the internet for studying network fundamentals and includes the use of tools to analyze network operations.

CNT 4014C IT Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 or COP 2830
Introduction to principles behind design, installation, and support of organization’s LAN, WAN, network segment, intranet, or Internet, including maintenance of network hardware and software, and monitoring of network to ensure availability to system users. Topics include gathering of data to determine customer needs, identification, interpretation, and evaluation of system and network requirements and technical-management issues.

CNT 4403 Computer and Network Security
3 sh (may not be repeated for credit)
Prerequisite: COP 4610C or COP 4634C
Introduction to the concepts of computer and network security using currently available technology. Security analysis, physical threats, virus protection, system recovery, and encryption.

CNT 6107 Advanced Computer Networks
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 4321; MAC 2233 or MAC 2311
Topics to be addressed include Local Area Networks (LANS), review of LANS Protocols, TCP/IP Suite and Data Networks. Overview of probability and stochastic processes, queuing analysis and self-similar traffic, high speed LANS, link-level flow and error control, routing and switching. Wireless and mobile communications, network security and gigabit ethernet.

COMPUTER PROGRAMMING Courses

COP 2253 Programming Using Java
3 sh (may not be repeated for credit)
Introduction to algorithms and object-oriented programming. Topics include object-oriented design and modeling, UML, encapsulation, inheritance, data types, GUI, control constructs, looping constructs, parameter passing, and arrays. Emphasizes developing fundamental programming skills and software engineering principles in the context of an object-oriented language.

COP 2334 Programming Using C++
3 sh (may not be repeated for credit)
Introduction to computers and algorithms. Programming in a high level language. Topics include structured programming techniques, procedural and data abstraction. Students will learn the fundamentals of developing coherent, expressive programs.

COP 2830 Script Programming
3 sh (may not be repeated for credit)
Introduction to the essential skills of programming with scripting. Topics include use and manipulation of variable, design and validation of forms, and writing scripts for systems calls and command line arguments.

COP 3014C Algorithm and Program Design
4 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 3022C Intermediate Computer Programming
4 sh (may not be repeated for credit)
Prerequisite: COP 2253; and either MAC 2311 or MAC 2233
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 accompany the intermediate computer programming course. Emphasis will be on developing skills in program design as a necessary prerequisite to effective implementation. The lab will provide active learning experiences in design and coding.

COP 3530C Data Structures and Algorithms I
4 sh (may not be repeated for credit)
Prerequisite: COP 2253
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  Internet Programming  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2304 or COP 2253 or COP 2830  
An overview for design and implementation of various elements of programming for the Internet. Instruction in html, xml, and popular scripting languages to create sophisticated web applications that rest on the client/server architecture, culminating in Web services. The use of aesthetic elements such as CSS style sheets and quality graphics and audio files for Internet applications will be explored.

COP 4020C  Programming Languages  
4 sh (may not be repeated for credit)  
Prerequisite: COP 4534C and COP 4331C  
Programming language theory and practice, including language design and implementation, theoretical foundations, language translation, and exposure to variety of programming paradigms.

COP 4027C  Advanced Computer Programming  
4 sh (may not be repeated for credit)  
Prerequisite: COP 3022C  
The third course in the introductory programming sequence. Addresses advanced topics including multi-threaded programs, the basic of data structures, generic programming, basic client-server programming, XML and web-based applications. A supervised laboratory experience to accompany the advanced computer programming course. Emphasis will be developing skills in program design as necessary prerequisite to effective implementation. The lab will provide active learning experiences in design and coding.

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 4331C  Object Oriented Programming  
4 sh (may not be repeated for credit)  
Prerequisite: COP 3530C  
Exploration of the fundamental ideas behind object-oriented programming, including encapsulation, inheritance, and polymorphism. Applications will focus on extracting objects from a problem domain, designing problem solutions based on message-passing between objects, and documenting object-oriented design. Implementations will be done in a current object-oriented language. Laboratory projects will implement object-oriented designs. The fundamental constructs for object-oriented designs and efficiency will be emphasized.

COP 4534C  Data Structures and Algorithms II  
4 sh (may not be repeated for credit)  
Prerequisite: COP 3530C  
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, counting, 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 4610C  Theory and Fundamentals of Operating Systems  
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 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 4634C  Systems & Networks I  
4 sh (may not be repeated for credit)  
Prerequisite: CDA 3101C and COP 3530C  
The design and implementation of various components of a modern operating system including process and thread management and synchronization, I/O programming and inter-process communication. Internet communication through TCP and UDP sockets, sliding window algorithms, and client/server and peer-to-peer application development.

COP 4635C  Systems & Networks II  
4 sh (may not be repeated for credit)  
Prerequisite: COP 4634C, COP 4534C  
Co-requisite: COP 4534C  
This course is a continuation of Systems and Networks I. The operating systems topics of virtual memory and file systems are included. Topics relevant to networking and multiprocessor programming are covered. These include deadlock analysis, networking devices, networking protocol stack structure, congestion and flow control analysis and algorithms, network routing algorithms, and network traffic analysis. The role of security in operating systems and networks is covered.

COP 4653  Embedded/Wireless Systems  
3 sh (may not be repeated for credit)  
Prerequisite: COP 4534C or COP 4027C; CEN 3032  
Review of concepts and principles related to the development and evolution of embedded and wireless software systems.

COP 4710  Database Systems  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2334 or COP 2253 or COP 2830  
Introduction to database systems and database management system architectures. Various database models are discussed with an emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL, are included. Offered concurrently with COP 5725; graduate students will be assigned additional work.

COP 4723  Database Administration  
3 sh (may not be repeated for credit)  
Prerequisite: COP 4710  
Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemes, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance. Offered concurrently with COP 5775; graduate students will be assigned additional work.
COP 4814  Network-Centric Software Applications  
3 sh (may not be repeated for credit)  
Prerequisite: COP 4710, COP 4027C  
An introduction to network-centric software systems with emphasis on architectures, technologies, and design and development of an application. Critical issues including interoperability and security. Topics include network protocols, the role of data in net-centric applications and web services as examples of interoperable network applications.

COP 4856  Distributed Software Architecture I  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3530C  
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 4858  Database Administration  
3 sh (may not be repeated for credit)  
Prerequisite: COP 4723  
A course in database administration. Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemas, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance. Offered concurrently with COP 4723; graduate students will be assigned additional work. Students cannot receive credit for both COP 4723 and COP 5775.

CIS 4340  Web Server Technologies  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2253  
Co-requisite: 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.

COP 4876  Advanced Programming Languages  
4 sh (may not be repeated for credit)  
Prerequisite: COP 4020C  
Theory and practice of programming language design. Topics include: advanced language constructs, an overview of parallel programming, formal specification of programming languages, the analysis/synthesis model of program translation, code optimization, and compiler construction tools. Students will design and implement a small programming language.

COP 6727  Advanced Database Systems  
3 sh (may not be repeated for credit)  
Prerequisite: COP 4710 or 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.
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 4385 | Cyber-Security Forensics
3 sh (may be repeated for up to 0.0 sh of credit)
Prerequisite: COP 3530C

Provides a foundation in forensic evidence collection from electronic devices and the implications of security to users and forensic examiners. Applicable laws; disk and file recovery; bit-stream images; volatile and persistent data; cryptography; privacy and anonymity; tools for collecting evidence and reporting results. Offered concurrently with CIS 5396; graduate students will be assigned additional work. Credit cannot be received in both CIS 4385 and CIS 5396.

CIS 4592 | Capstone Research Experience
4 sh (may not be repeated for credit)
Prerequisite: COP 4534C

Investigation of topics currently being researched in Computer Science, with emphasis given to the student’s concentration within the program. Classes will be conducted in a seminar style with discussion of journal articles. Final projects will be either expository (discussion of the current state of research on a topic) or an implementation (replicating the work described in an article).

CIS 4595C | Capstone Systems Project
3 sh (may not be repeated for credit)
Prerequisite: Either CEN 3032 or (CNT 4007C and CNT 4014C)

Develop a software system for a real-world client while working in small teams. Develop and deliver relevant artifacts such as a project proposal, design, test plan, code, user’s manual, and project log with metrics as the software system evolves throughout the course. A final presentation and evaluation of the project experience will be prepared.

CIS 4911 | IT Capstone Project
3 sh (may not be repeated for credit)
Prerequisite: CNT 4014C and 90 Semester Hours

Real-world experiential opportunities through observation, participation, and implementation of a project within campus or for other local organization. Development of project proposals, implementation of solutions and analysis of outcomes will be stressed. Course should be taken in the final semester of the degree program.

CIS 4931 | Computer Science Seminar: Topic I
1-4 sh (may be repeated for up to 8.0 sh of credit)

Modern topics in Computer Science will be explored. Topics will vary. Open to all majors. Credit cannot be applied to the CS Concentration electives.

CIS 4941 | Computer Science Internship
1-3 sh (may be repeated for up to 3.0 sh of credit)

Supervised field practicum in computer-related position. May include activities in computer programming, database administration, web-development, systems administration, network security, etc. Graded on satisfactory/unsatisfactory basis only. Permission is required.

CIS 5396 | Cyber-Security Forensics
3 sh (may not be repeated for credit)
Prerequisite: COP 3530C

Provides a foundation in forensic evidence collection from electronic devices and the implications of security to users and forensic examiners. Applicable laws; disk and file recovery; bit-stream images; volatile and persistent data; cryptography; privacy and anonymity; tools for collecting evidence and reporting results. Offered concurrently with CIS 4385; graduate students will be assigned additional work. Credit cannot be received in both CIS 5396 and CIS 4385.

CIS 6971 | Thesis
1-6 sh (may be repeated for up to 12.0 sh of credit)
Graded on satisfactory/unsatisfactory basis only. Permission is required.

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**COMPUTER TECHNOLOGY AND 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)

Installation, configuration and maintenance of a modern open-source operating system in individual and corporate environments. Topics include installation planning and implementation; disk partitioning; single and dual booting; software configuration; client/server systems; users and groups; maintenance; security; and troubleshooting. Offered concurrently with CTS 5349; graduate students will be assigned additional work.

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)

Installation, configuration, and maintenance of a modern open-source operating system in individual and corporate environments. Topics include installation planning and implementation; disk partitions; single and dual booting; software configuration; client/server systems; users and groups; maintenance; security; and troubleshooting. Offered concurrently with CTS 4348; graduate students will be assigned additional work.
COMPUTING THEORY Courses

COT 3100C Discrete Structures
4 sh (may not be repeated for credit)
Prerequisite: COP 2253; MAC 2233 or MAC 2311
Number systems, propositional logic, predicates, sets, functions, sequences, summations, algorithms, induction, recursion, graphs, trees, Boolean functions, languages and grammars, and finite state machines. Emphasis is on developing programming skills. May not be taken for credit by majors.

COT 3701C Game Design
3 sh (may not be repeated for credit)
Introduction to basic principles of Game Design including history of game types, game interfaces, structure of games, importance of story line, dramatic elements, character development, conceptualizing a game, prototyping, play testing, fun and accessibility and game development life cycle.

COT 4420 Theory of Computation
3 sh (may not be repeated for credit)
Prerequisite: COP 3530C, 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 5205; graduate students will be assigned additional work. Credit cannot be received in both COT 4420 and COT 5205.

COT 5205 Theory of Computation
3 sh (may not be repeated for credit)
Prerequisite: 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. Dual-listed with COT 4420; graduate students will be assigned additional work. Students cannot receive credit for COT 5205 and COT 4420.

COT 5930 Computer Science and Software Engineering Seminar
3 sh (may not be repeated for credit)
A seminar-style course that provides graduate and advanced undergraduate students with exposure to material beyond the standard curriculum. Specific topics will be based on the interests of the students enrolled.

COT 6931 Computer Science Project
3 sh (may be repeated for up to 6.0 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.

CORRECTIONS Courses

CJC 4010 Punishment and Society
3 sh (may not be repeated for credit)
Basic analysis of correctional systems in the United States. Focus is on widely held conceptions of punishment, physical design and organizational structures of prison facilities, community based correctional options, the death penalty and the evaluation of correctional research. Other topics of interest include sentencing policy, key issues faced by prison administrators and prisoners as well as the role of the victim in corrections.

CJC 4167 Alternative Punishments
3 sh (may not be repeated for credit)
Introduces the student to the subject of alternative punishments including social, political, and economic conditions that have contributed to the development of alternative punishments. Identifies the types of alternative punishments and the effectiveness of such options. The needs of special offender populations for corrections alternatives are also explored.

CJC 6021 Penology
3 sh (may not be repeated for credit)
Classical and contemporary readings in corrections. Uses historical and philosophical contexts to critically assess contemporary correctional issues and introduces students to the importance of data-driven policy promoting critical evaluation and debate.

CREATIVE WRITING Courses

CRW 2001 Introduction to Creative Writing
3 sh (may not be repeated for credit)
Overview and introduction to three genres of creative writing: poetry, fiction, and creative nonfiction. Will be taught as part lecture/discussion and part writing workshop.

CRW 3110 Fiction Writing
3 sh (may not be repeated for credit)
Workshop in narrative fiction. Practice in developing plot and character and establishing point of view. Emphasis on writing for publication in specific markets.

CRW 3310 Poetry Writing
3 sh (may not be repeated for credit)
Workshop in writing poetry. Practice in traditional forms and extensive work in contemporary free verse.

CRW 3424 Playwriting
3 sh (may not be repeated for credit)
Playwriting is devoted to the analysis and creation of literary drama. Introduces the student to the dramatic elements of plot, scene, character development and motivation, and dramatic action through the study of established playwrights and plays. Students will also submit their own original creative work for discussion and analysis by the professor and class.

CRW 4211 Creative Non-Fiction
3 sh (may not be repeated for credit)
Writing workshop in which students explore the personal essay through the process of reading and writing about autobiography, travel, science, politics, and art.
CRW 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.

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.

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.

CRW 6934  Special Topics in Creative Writing
3 sh (may not be repeated for up to 12.0 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.

CRIMINOLOGY AND CRIMINAL JUSTICE Courses

CCJ 2002  Survey of Crime and Justice
3 sh (may not be repeated for credit)
Provides an introduction to the issues of crime and justice in the United
States. Discusses the complexities of studying crime and evaluates the
role of various criminal justice subsystems. (General Studies Course: SS/BEH).

CCJ 2948  Service Learning Field Study I
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting
related to field of study. Supervision by faculty and agency. Students
and faculty "customize" courses to fit a full range of services that
are available in the setting. Student must be able to draw correlation
between the discipline and field study. Journal and reflective
experience paper are required. With the agreement of the student's
faculty sponsor, a minimum of 6-8 hours per week must be done at the
field site per semester hour of credit. Permission is required.

CCJ 3014  Criminology
3 sh (may not be repeated for credit)
Examines the causes, types, and patterns of crime in society. Major
schools of thought and current research are introduced, compared,
and contrasted in the study of crime and its social context.

CCJ 3024  American Justice System
3 sh (may not be repeated for credit)
Introductory analysis of the American justice system. Structure,
organization and process of the justice system, the roles and
responsibilities of justice professionals, and the dynamics of the justice
system in a democratic society.

CCJ 3060  Ethics and the Justice System
3 sh (may not be repeated for credit)
Identification and analysis of ethical issues in the American justice
system.

CCJ 3450  Criminal Justice Management and Organization
3 sh (may not be repeated for credit)
Acquaints student with the basic management processes affecting
criminal justice agencies, develops the student's ability to analyze
management problems and apply effective interventions to those
problems in police departments, courts, and corrections agencies.

CCJ 3654  Substance Abuse and the Offender
3 sh (may not be repeated for credit)
Addresses the biological, psychological, and social elements of
substance abuse and treatment for defendants within the criminal
justice system. Provides a comprehensive critical analysis of the social
and psychological issues of substance abuse including theories of
causation and treatment.

CCJ 3666  Victimology
3 sh (may not be repeated for credit)
The study of the interrelationships between crime, criminals, victims,
and the criminal justice system. Areas of emphasis include victim's
rights, restorative justice, as well as the psychological, financial, and
medical needs and problems of the victim.

CCJ 3678  Race, Gender, Ethnicity, and Crime
3 sh (may not be repeated for credit)
Analysis of the demographic state of affairs in criminal justice
in the United States. Designed to elicit discussion regarding the
interrelationships between race, gender, ethnicity, and the criminal
justice system. Meet Multicultural Requirement.

CCJ 3691  Sex Offenses and the Offender
3 sh (may not be repeated for credit)
Comprehensive overview of psychological, sociological and legal
issues related to sex offenses. Additionally, the sexual offenders and
different typologies of the sex offender will be discussed.

CCJ 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting
related to field of study. Supervision by faculty and agency. Students
and faculty "customize" courses to fit a full range of services that
are available in the setting. Student must be able to draw correlation
between the discipline and field study. Journal and reflective
experience paper are required. With the agreement of the student's
faculty sponsor, a minimum of 6-8 hours per week must be done at the
field site per semester hour of credit. Permission is required.

CCJ 4026  Contemporary Issues in Criminal Justice
3 sh (may not be repeated for credit)
Examines the nature and extent of crime in modern Western society.
Emphasis placed on issues selected from, but not limited to, emerging
patterns of violence, organized crime, white-collar crime, victimless
crime, corruption, and those crime strategies deemed appropriate in a
democracy.
CCJ 4036  Behavioral Science and the Law
3 sh (may not be repeated for credit)
Addresses topics in the field of forensic psychology, public policy and the law. Selected issues will include: competency to precede, insanity at the time of the alleged offense, malingering, psychopathy, domestic violence, prediction of violence, false confession/police deception, sexual violence, civil commitment, sexual predator laws, including the Jimmy Ryce Act.

CCJ 4075  Crime Analysis
3 sh (may not be repeated for credit)
Introduces students to the analytical processes of identifying crime trends and patterns, forecasting future events, identification of suspects and use of crime data to assist law enforcement officers. Also reviews other key concepts of investigative, intelligence and operational analysis.

CCJ 4107  Crime and Public Policy
3 sh (may not be repeated for credit)
An introduction to the public policy making process. Offers an overview of the formation, implementation, quantitative, and qualitative evaluation, and ethical aspects of policy making.

CCJ 4141  Restorative Justice
3 sh (may not be repeated for credit)
Introduces the philosophy of restorative justice. Students critically analyze and compare retributive justice with restorative justice. Explores various restorative justice methodologies and evaluation of those methodologies. Hands on instruction in the use of restorative practices will be given.

CCJ 4644  White Collar Crime
3 sh (may not be repeated for credit)
Considers the question "what is white-collar crime?" and the implications associated with enforcement of laws related to white-collar criminality, investigation and prosecution of such offenses and sentencing of white-collar offenders. Various forms of white-collar crime will be examined and illustrated through case studies and research, including estimates of cost, victim and offender profiles, and legal issues. Examines theoretical explanations for white-collar crime and questions of corporate liability.

CCJ 4700  Research Design in Criminal Justice
3 sh (may not be repeated for credit)
Designed to give students an understanding of the basic principles and practices of empirical research as they are practiced in criminal justice and to enhance students' critical thinking skills with respect to criminal justice programs and proposals. (Gordon Rule Course: Wrtg).

CCJ 4931  Special Topics in Criminal Justice
3 sh (may be repeated for up to 12.0 sh of credit)
The study of special issues in criminal justice. Subject matter will vary each semester to reflect an in-depth study of particular issues (e.g. gangs) or fields of criminology (e.g. corrections and theories of punishment) being examined. This includes grounding course content in criminological theory, as well as related theoretical frameworks.

CCJ 4940  Criminal Justice Internship
1-6 sh (may be repeated for up to 9.0 sh of credit)
Internship in field of criminal justice intended to give field observation and experience. Permission of undergraduate coordinator and 3-6 sh career experience required. Graded on satisfactory/unsatisfactory basis only.

CCJ 5006  Criminal Justice Administration
3 sh (may not be repeated for credit)
Focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. Includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

CCJ 5008  Criminal Justice Theory
3 sh (may not be repeated for credit)
Analyses the theoretical perspectives associated with the policies, organizations, decisions, and operations of criminal justice systems, agencies, and individuals. Examines classical and contemporary research in criminal justice.

CCJ 5018  Crime and Public Policy
3 sh (may not be repeated for credit)
Analysis of various policy initiatives designed to reduce the level of crime. Applies elements of criminological theory and research methods to critically evaluate the effectiveness of policies.

CCJ 5496  Critical Analysis of Justice Administration
3 sh (may not be repeated for credit)
A detailed survey of the government agencies involved in the administration of the American criminal justice system. An overview of the processes of the justice system from entry to exit of criminal defendants. Evaluation of organizational performance in justice agencies and the critical analysis of the public policies they promulgate.

CCJ 5669  Race, Ethnicity, Gender, and Criminal Justice
3 sh (may not be repeated for credit)
Dissects the pervasive links between crime, justice, race, ethnicity, and gender. Analyzes the challenges posed by rendering justice in a multicultural society.

CCJ 6020  Criminal Justice and the Juvenile
3 sh (may not be repeated for credit)
Explores the nature and extent 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.

CCJ 6061  Criminological Theory
3 sh (may not be repeated for credit)
Examines criminological theories with emphasis on the origins and applications of relevant theoretical approaches to crime and criminally deviant behavior. Addresses theoretical concepts and propositions of most (though not all) of the major criminological theories, the related empirical research that has tested these theories, and the corresponding policy implications.

CCJ 6145  Restorative Justice
3 sh (may not be repeated for credit)
Examines the principles of restorative justice from a critical perspective. A restorative justice approach is utilized to gain insight into contemporary criminal justice practice and policies.

CCJ 6427  Issues in Contemporary Criminal Justice
3 sh (may not be repeated for credit)
An in-depth study of issues confronting 21st Century criminal justice systems. Topics include those associated with current events and controversies.
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.

The history of Irish dance will be explored. Dancing. A Basic Reel (solo style step dancing) and 2-3 Ceili dances will be taught. The history of Irish dance will be explored.

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.

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.

A beginning level fitness tap dance class that focuses on building fitness through the use of tap dance and fitness techniques. Designed for the non-dancers, dancers and athletes.

A beginning level fitness tap dance class that focuses on building fitness through the use of tap dance and fitness techniques. Designed for the non-dancers, dancers and athletes.

A beginning level fitness tap dance class that focuses on building fitness through the use of tap dance and fitness techniques. Designed for the non-dancers, dancers and athletes.
DEVELOPMENTAL PSYCHOLOGY Courses

DEP 2004   Human Development Across the Lifespan
3 sh (may not be repeated for credit)
Survey of major themes and recent findings in the area of human development across the life span. Emphasis will be on the major transitions from fetal development through death in the physical, cognitive, social, and emotional domains. The impact of ethnic, gender, and cultural factors on development will be examined. (General Studies Course: SS/BEH).

DEP 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 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.

DEP 4798L   Laboratory in Child and Adolescent Development
1 sh (may not be repeated for credit)
Prerequisite: DEP 4305
Co-requisite: DEP 3103 or DEP 4305 (or as prerequisite)
Students will apply knowledge acquired in the Child Development and/or Psychology of Adolescence courses to develop research strategies that take into consideration the unique challenges in conducting research with children and adolescents. Use of archived data for exercises with opportunities to develop observation and analysis skills.

DEP 5055   Developmental Psychology
3 sh (may not be repeated for credit)
Representative theories of development; methodological issues in developmental research; study of research knowledge in selected areas of developmental psychology. One undergraduate or graduate course in the area of developmental psychology is required.

ECONOMIC PROBLEMS AND 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.

ECP 4160   Economic Demography and Aging Markets
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 or ECO 3003
Uses basic models and theories from principles of economic classes to analyze the economic aspects of aging. Topics include the following: causes of an aging society; economic implications of an aging population on younger as well as older persons; dependency ratios; wealth, labor markets and the decision to work in old age; analysis of the role of private and public pension/annuity systems (including Social Security) on the economic status of older adults; and the role of intergenerational transfers and bequests on retirement decisions. Offered concurrently with ECP 5162; graduate students will be assigned additional work.

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 2013 or ECO 3003.
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.
ECP 4613 Urban and Regional Economic Development
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.
Contemporary urban and regional issues such as crowding, congestion, pollution and crime have long been the subject of political, moral and social debate. In order to understand and work towards solutions to these problems a command of economic theory and its relevant applications is essential. Takes simple economic principles and applies them to these pressing social issues including those found in the Gulf Coast area of Northwest Florida. In each case, various alternative solutions are discussed in the context of scarcity of resources, a fundamental principle of economics.

ECP 4703 Managerial Economics
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.
Develops tools of economic analysis in operating a business firm, including applied microeconomic tools designed to aid decision makers in pricing, reducing firm costs and identifying areas for firm expansion.

ECP 5162 Economic Demography and Aging Markets
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 or ECO 3003
Uses basic models and theories from principles on economics classes to analyze the economic aspects of aging. Topics include the following: causes of an aging society; economic implications of an aging population on younger as well as older persons; dependency ratios; wealth, labor markets and the decision to work in old age; analysis of the role of private and public pension/annuity systems (including Social Security) on the economic status of older adults; and the role of intergenerational transfers and bequests on retirement decisions. Offered concurrently with ECP 4160; graduate students will be assigned additional work.

ECP 6705 Advanced Managerial Economics
3 sh (may not be repeated for credit)
Prerequisite: QMB 6305
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.

**ECONOMICS Courses**

ECO 2013 Principles of Economics Macro
3 sh (may not be repeated for credit)
Introduction to economics with emphasis on the study of aggregate economic activity, national income, price level determination, and economic growth and development. (General Studies Course: SS/SOC).

ECO 2023 Principles of Economics Micro
3 sh (may not be repeated for credit)
Introduction to economics with an emphasis on the determination of prices in the market economy and their role in allocating commodities and economic resources to various users. Study of market structure and efficiency. This course is recommended to be taken after ECO 2013.

ECO 3003 Principles of Economic Theory and Public Policy
3 sh (may not be repeated for credit)
Survey and analysis of contemporary economic theory and public policy. Available to non-business majors only.

ECO 3101 Intermediate Microeconomics
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.
Economic activity of individual economic units as consumers, resource owners and business firms. Analysis of consumer motivation as the basis of demand theory. Study of how business firms determine what to produce, how to produce at least cost, how to maximize profits, and how to distribute products. Monopoly, oligopoly, imperfect competition, and the different market conditions for resources are studied to present how the optimum use of each resource is determined by the firm.

ECO 3203 Intermediate Macroeconomics
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.
National income accounts. Aggregate supply and demand functions. Savings and consumption functions. The multiplier, the accelerator, marginal efficiency of capital, and determinants of interest rate. Problems of growth and full employment.

ECO 3223 Money and Banking
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023
Monetary and financial systems of the United States; organization and function of financial institutions including the Federal Reserve System; problems of money, prices, interest, credit, national income, and employment; international finance; recent monetary and financial trends.

ECO 4401 Introduction to Mathematical Economics
3 sh (may not be repeated for credit)
Prerequisite: ECO 2023; MAC 2233 or 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: STA 2023, ECO 2013 and ECO 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 4941 Economics Internship
1-6 sh (may be repeated up to 6.0 sh of credit)
Prerequisite: ECO 2013 and ECO 2023
Supervised field practicum in economics related position. May include activities in one or more functional areas of economics (research, forecasting, business cycles, money & banking, labor, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major course(s) and permission is required.
EDUCATION: CAREER/TECHNICAL Courses

ECT 3004  Principles of Career and Technical Studies
4 sh (may not be repeated for credit)
Provides an opportunity to develop philosophy of career and technical studies through the understanding of basic concepts and principles underlying education of occupational competency.

ECT 3183  Course Construction for Career and Technical Training
3 sh (may not be repeated for credit)
Organization of instruction for career and technical teaching. Evaluation of career and technical philosophy in determining objectives and constructing course materials in career and technical studies programs.

ECT 3367  Career and Technical Instructional Evaluation
3 sh (may not be repeated for credit)
Testing and evaluating career and technical instruction. Methods of evaluating student progress in all levels of career and technical instruction; emphasis on principles, preparations, administration, and evaluation of picture, performance, oral, and written exams.

ECT 3945  Supervised Field Problems
1-3 sh (may be repeated for up to 3.0 sh of credit)
Problems in industrial-vocational environment through arrangement by assigned instructor.

ECT 4380  Special Methods in Career and Technical Studies
4 sh (may not be repeated for credit)
Provides opportunity to become proficient in using special methods and procedural activities in career and technical studies classes.

ECT 4560  Selection and Guidance of Career and Technical Studies Students
3 sh (may not be repeated for credit)
Methods of selecting and guiding students into career and technical education programs. Emphasis on career selection and placement procedures.

ECT 4562  Introduction to Career and Technical Special Needs Education
3 sh (may not be repeated for credit)
Introduces historical evolution, legislative development and instructional methodologies in career and technical special needs education.

ECT 4930  Seminar
3 sh (may not be repeated for credit)

ECT 5266  Administration and Supervision of Career and Technical Education Programs
3 sh (may not be repeated for credit)
Administration and supervisory functions in creating new programs and maintaining existing programs to adequately serve community needs in career and technical and adult education programs.

ECT 5295  Curriculum and Staff Development for Career and Technical Education Programs
3 sh (may not be repeated for credit)
Curriculum development procedures for community career and technical and adult education needs; procedures for selecting faculty and support personnel for staffing curricula; and procedures for conducting effective pre-service and in-service staff development programs.

ECT 5566  Career and Technical Special Needs Education
3 sh (may not be repeated for credit)
Historical developments, legislation, instructional strategies and problems associated with instructing special needs students in career and technical studies related environments.

ECT 6669  Trends and Issues in Career and Technical Education
3 sh (may not be repeated for credit)
Basic philosophical and curricula trends and issues in career and technical education at the international, national, state, and local levels.

ECT 6970  Thesis
1-6 sh (may be repeated for up to 8.0 sh of credit)
Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

EDUCATION: CAREER/WORKFORCE Courses

ECW 4310  Strategies for Planning and Operating Health Occupations Education
4 sh (may not be repeated for credit)
Developing strategies and teaching techniques for planning and operating health occupations education programs.

ECW 5265  Coordination and Management of Cooperative Career and Technical Education Program
3 sh (may not be repeated for credit)
Establishing and managing cooperative and specialized programs. Emphasis on promotion of school, community, and employment relationships.

ECW 5465  Bio-technology and Medical Technology Assessment
3 sh (may not be repeated for credit)
Focuses on technology assessment including project-based and problem-based learning, medical, and bio-related technologies. Prepares teachers to be able to teach and assess standards based student outcomes. Content focus is agricultural, medical, and biotechnology design, use, and societal issues.

ECW 6165  Integrated Curriculum
3 sh (may not be repeated for credit)
Classroom instruction and student engagement as it applies to learning and research.

ECW 6561  Selection and Guidance of Career and Technical Studies
3 sh (may not be repeated for credit)
Concentrates on the achievement of skills used by teachers as they gather student data, confer with students and help them plan for employment or further education.
ECW 6695 School Involvement and Community Relations
3 sh (may not be repeated for credit)
Career and Technical Studies as a part of the community implications for industrial, labor, and community relations; school-community/employee-employer relationships; interpreting career and technical programs to the public; role of the career and technical administrator/teacher. Evaluation of related activities.

EDUCATION: EARLY CHILDHOOD Courses

EEC 3204 Introduction to Early Childhood Education
3 sh (may not be repeated for credit)
Prerequisite: EEC 3704
Basic curriculum principles and the role of the teacher in the education of children from infancy to eight years of age. Observation/participation in early childhood education settings.

EEC 3704 Right From The Start: Education of the Developing Young Child
3 sh (may not be repeated for credit)
Designed for the education major, this course has as its focus educational implications of the total development of children, prenatal through early childhood. Typical and atypical development is addressed from three viewpoints: Age period (pre-natal, infancy, toddler, pre-school, and early elementary), developmental domain (i.e., physical, social, emotional, and cognitive), and educational applications at each age and domain.

EEC 3731 Health/Nutrition/Safety
3 sh (may not be repeated for credit)
Designed to prepare pre-professionals to function skillfully and effectively as teachers/caregivers in providing health, safety, and nutritional needs of the young child. Focuses on providing a sound knowledge base in each of the three areas of emphasis and then developing competence related to each one.

EEC 3940 ICFE I - Integrated Curriculum/Field Experience
3 sh (may not be repeated for credit)
Introduces professionals to the myriad service delivery systems of the Early Childhood professional. Students' understanding of the role of inter-agency outcomes related to collaboration and transdisciplinary service delivery models will be developed. In addition, skills dispositions necessary for effective teaming will be developed.

EEC 3941 ICFE I - Practicum
1 sh (may be repeated for up to 4.0 sh of credit)
Co-requisite: EEC 3940
Students will be provided with opportunities to observe and participate in varied service delivery systems including home based, center based, and hospital based serving young children and their families. Minimum of 35 hours; includes seminar, observing, collaborating with early childhood professional in the work setting, and individual project. Graded on satisfactory/unsatisfactory basis only.

EEC 3942 Field Experience 1
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 50 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficiency - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only.

EEC 4302 ICFE III - Integrated Curriculum/Field Experiences
3 sh (may not be repeated for credit)
Seminar with field experience in the Early Childhood Minor. Content includes a focus on the understandings, skills and knowledge bases associated with application of developmentally appropriate practices in early childhood settings. Emphasis is on planning and implementing an integrated approach to curriculum and assessment/evaluation of children and processes related to the development of young children in a variety of settings is required.

EEC 4604 Child Guidance and Classroom Management
3 sh (may not be repeated for credit)
Provides a comprehensive knowledge base concerning child and classroom management. Areas of emphasis include roles of various personnel, organization of the environment to promote appropriate behavior, strategies to develop appropriate behavior and motivation, and related record keeping techniques.

EEC 4613 Assessment and Evaluation for Young Children
3 sh (may not be repeated for credit)
Provides a comprehensive knowledge base concerning assessment of young children. Areas of emphasis include development of skills in selection, use, and interpretation of developmentally appropriate formal and holistic instruments and procedures, measurement terms and principles, procedures, and legal requirements for record keeping, use of technology in assessment, and managing an assessment team.

EEC 4943 Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EEC 3942, TSL 4080
This clinical field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 75 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only.
EEC 6263  Integrated Curriculum Development and Instruction/Early Childhood Education
3 sh (may not be repeated for credit)
Basis and techniques for making curriculum decisions, survey of curriculum content and programming appropriate for children three to eight years of age; clinical and field-based involvement with development and implementation of practices consistent with diagnostic/prescriptive teaching through individualized instruction. At least one course in early childhood education is required.

EED 6305  Practical Applications and Issues in Classroom Management: Primary Education
3 sh (may not be repeated for credit)
Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for primary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large group in student respective grade level or educational settings.

EDUCATION: ELEMENTARY Courses

EDE 3942  Field Experience I
3 sh (may not be repeated for credit)
Prerequisite: EDE 4200, EDF 3234
Co-requisite: EDE 4200
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDE 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 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.

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 a minimum of two of the three methods courses (LAE 3314, MAE 4310, and SCE 4310).
Co-requisite: One of the three methods courses (LAE 3314, MAE 4310, and SCE 4310).
Designed to assist prospective teachers to use their knowledge of content and pedagogical methods as a basis for developing skills in planning integrated elementary curriculum. Students will implement the knowledge gained through lower division content-specific courses and upper division methods courses to create interdisciplinary units of instruction that are designed to facilitate elementary children's learning across all content areas. Emphasis will be placed on creating developmentally appropriate units that meet the needs of both elementary and primary children, taking into account Gardner’s multiple intelligences; and the special needs of ESOL and exceptional students. Additionally, demonstration teaching, and constructing and scoring classroom assessments that allow children to show what they know and understand are a focus of the course work.

EDE 4302  Instruction, Management, and Assessment-Elementary
3 sh (may not be repeated for credit)
Strategies for managing the classroom, instruction and evaluation as they relate to teaching the essential school competencies.

EDE 4421  Educational Assessment
3 sh (may not be repeated for credit)
Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

EDE 4944  Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EDE 3942, TSL 4081
Co-requisite: TSL 4081
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.
EDE 6206  Integrated Curriculum and Instruction/Elementary Education
3 sh (may not be repeated for credit)
An advanced curriculum course for graduate elementary level education students. Format is a combination of classroom instruction and student engagement focusing on integration of the content areas and a project in which the student applies learning and conducts research. The emphasis of instruction is integration, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, Sunshine State Standards, and assessment strategies.

EDE 6268  School Involvement and Community Relations
3 sh (may not be repeated for credit)
Techniques and strategies for developing and implementing effective home, school, community involvement programs at the elementary level. Emphasis will be placed on materials and techniques for communicating effectively with families from a variety of cultural backgrounds and the implications for industrial, labor and community relations as they impact the elementary level.

EDE 6305  Graduate Kodaly Method
3 sh (may not be repeated for credit)
Offers the student the opportunity to study the Kodaly Method of teaching elementary students. The course will take an in-depth look at training young singers using the Kodaly Method and will include a brief history of the method and an update on current practices. Permission is required.

EDE 6482  Research Practicum
3 sh (may not be repeated for credit)
Prerequisite: EDG 5366
Identification of a problem in the area of Elementary Education review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Students successfully completing this course will be allowed to register for Action Research.

EDE 6506  Classroom Management for Elementary Environments
3 sh (may not be repeated for credit)
Provides an in-depth understanding of the interactions among the social, emotional, and cognitive characteristics of the pre and early adolescent and effective management of elementary classroom student and behavior.

EDE 6521  Practical Applications and Issues in Classroom Management: Elementary Education
3 sh (may not be repeated for credit)
Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for elementary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group, and large groups in student respective grade level or educational setting.

EDE 6911  Action Research
3 sh (may not be repeated for up to 6.0 sh of credit)
Prerequisite: EDE 6482
Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Elementary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

EDE 6941  Graduate Methods/ESOL/Reading Practicum: Elementary Education
3 sh (may not be repeated for credit)
Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations required and conclusions drawn about the impact of the new approach on pupil’s achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL and reading strategies is included.

EDUCATION: EXCEPTIONAL CHILD-CORE COMPETENCIES Courses

EEX 2010  Introduction to Exceptional Children
3 sh (may not be repeated for credit)
Incidence, nature, etiology and services available in connection with gifted and handicapped children. Visual, auditory, speech, motor coordination, intellectual, social, emotional and behavioral deviations are emphasized.

EEX 3070  Methods in Inclusion and Collaboration
3 sh (may not be repeated for credit)
Required for all education majors. Structure and content are based on the University of West Florida’s model for professional education, the Empowered Person and Professional taking action. Views future teachers as being: 1)critical thinkers, 2)problem solvers, 3)decision makers, 4)counselors/therapists, 5)ethical and moral beings, 6)lifelong learners, and 7)active professionals. Therefore it provides students a knowledge base of varying exceptionalities, as well as, multiple instructional and management strategies. Students also will be actively involved in experimenting with instructional and behavioral strategies, examining the professional literature, and problem solving in relation to specific cases of students with disabilities or diverse cultural backgrounds. Additionally, information about special needs students, agencies and resources. Students will also become aware of the use of technology in meeting the needs of students with physical, sensory and communicative disabilities. Includes required field experience.

EEX 4141  Survey of Normal and Abnormal Language and Speech Development
3 sh (may not be repeated for credit)
Comparison of normal and deviant patterns of language and speech development. Etiology and remedial programs emphasized.

EEX 4221C  Evaluation and Prescriptive Instruction for the Exceptional Child
3 sh (may not be repeated for credit)
Development of skill in administration, interpretation and construction of formal and informal tests for evaluating children and individualizing instruction for exceptional children. Field experience is required.
EEX 4254  Instructional Strategies for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 4255
Focuses on development, implementation, and evaluation of educational plans; special approaches to teaching basic academic and functional skills; developmental programming and data-based management of instruction. Emphasis is also placed on developing awareness of the specific instructional needs of culturally diverse students.

EEX 4255  Curriculum for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 2010, RED 3310
Specialized curriculum and instructional materials for teaching students with high incidence disabilities (learning disabilities, emotional handicaps and cognitive disabilities); curriculum standards and resources; and translation of assessment data into individualized, instructional programs.

EEX 4261  Educational Management of Exceptional Children
3 sh (may not be repeated for credit)
Materials, methods and management techniques appropriate for use with exceptional children. Includes classroom organization and consultation skills. Includes required field experience.

EEX 4275  Move Basic Provider Course
1 sh (may not be repeated for credit)
Provides training in the MOVE Curriculum resulting in certification as a MOVE Basic Provider through MOVE International. Training will be provided in the six steps of the MOVE Curriculum: Testing, Goal Setting, Task Analysis, Measuring Prompts, Reducing Prompts, and Teaching Skills. Additionally lecture, demonstration, and practice will be provided in the areas of transdisciplinary team approaches, family-centered program planning, top-down program development, activity-based instruction, and adaptive mobility equipment. Graded on a satisfactory/unsatisfactory basis only.

EEX 4474  Curricula for Teaching Students with Severe Disabilities
3 sh (may not be repeated for credit)
Prerequisite: EEX 2010, EEX 4141, EEX 4255
An introduction to functional curricula pertaining to students with severe disabilities including intellectual disabilities, physical impairments, and autism. Emphasis is on family-centered planning, team approaches, access to the general education curriculum, activity-based instruction, and community-based instruction. Specific information on curriculum and instructional strategies related to communication, motor, and self-care skills will be included.

EEX 4660  Advanced Behavior Management for Students with Exceptionalities
3 sh (may not be repeated for credit)
Provides a comprehensive knowledge base concerning advanced behavior management. Areas of emphasis include techniques of stimulus control, shaping new behavior, increasing, decreasing, and maintaining behaviors, cognitive behavior modification strategies, teaching social skills, group contingency contracting and precision teaching.

EEX 4772  Personal, Social and Employment Skills for Exceptional Students
3 sh (may not be repeated for credit)
Prerequisite: EEX 2010
Includes personal, social, communication employment goals and skills, career awareness, and transition planning for adult living. Includes required field experience.

EEX 4832  Field Experience I
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practical Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EEX 4833  Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EEX 4832, TSL 4081
Co-requisite: TSL 4081
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EEX 5085  Integrating Curriculum and Instruction
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.
EEX 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 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)
Is a requirement for students in the Middle Level and Secondary Education (M.Ed.) Program. The underlying model which permeates this course is the teacher as Empowered Person and Professional taking action. This model focuses learning experiences on activities that permit the teacher to examine what he/she does and to take an active role in the instructional process. Through lecture, discussion, and projects, this course provides a comprehensive knowledge base pertinent to the nature and needs of persons with disabilities, at-risk, and with special gifts and talents. It includes a discussion of assessment, service provision, and education of exceptional individuals.

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 6222 Practical Applications and Issues Classroom Management
3 sh (may not be repeated for credit)
Analyze professional literature focused on the best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical response and individual best practices for exceptional student education classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large groups in student respective grade level or education settings.

EEX 6225 Assessment of Exceptional Children
3 sh (may not be repeated for credit)
Development, administration, and scoring of group and individual tests and assessment devices for determining scope and depth of educational achievement as well as standardized and alternative assessment methods of specific abilities and behaviors which relate to or constitute prerequisites to educational programs. Students develop proficiency in the development of tests, rating scales, and alternative assessment devices for use with students with learning disabilities, emotional handicaps, and mental handicaps.

EEX 6340 Action Research
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EEX 6945
Implementation of proposal in Research Practicum including identification of a problem in the area of Special Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on satisfactory/unsatisfactory basis only.

EEX 6455 Program Development for PreK Disabilities
3 sh (may not be repeated for credit)
Program development for handicapped and at-risk infants, toddlers and preschoolers; includes administration, supervision, curriculum development parent involvement, staff development, funding and evaluation.

EEX 6612 Behavior Management
3 sh (may not be repeated for credit)
Provides a comprehensive knowledge base concerning behavior management including structuring the classroom for success, assessing and managing individuals and group behavior, and motivating and managing exceptional and at-risk students.

EEX 6707 Assessment for Early Intervention for PreK Disabilities
3 sh (may not be repeated for credit)
Investigates assessment tools used in early intervention and early childhood special education. Explores the strategies and procedures used for screening, diagnoses and program planning.

EEX 6732 Parent-Teacher Team and Agencies for PreK Disabilities
3 sh (may not be repeated for credit)
Parent-teacher team interaction for handicapped and at-risk infants, toddlers and pre-schoolers to age five. Agencies with services for birth to five years of age will be included.

EEX 6756 Home/School/Community Collaboration
3 sh (may not be repeated for credit)
The purpose is to investigate techniques and strategies for developing and implementing effective home, school, and community communication and collaboration. Emphasis will be placed on methods to communicate effectively with families from a variety of cultural backgrounds.

EEX 6940 Practicum in Special Education
1-3 sh (may be repeated for up to 6.0 sh of credit)
Designed to provide the critical opportunity for students to demonstrate their ability to write lesson plans, deliver individualized instruction and manage the classroom in a relevant field setting. Minimum of 100 hours in a special education, K-12, setting.
EEX 6945  Research Practicum in Special Education
3 sh (may not be repeated for credit)
Prerequisite: EDG 5366
Explores investigative inquiry of relevant topics within the field of special education. Includes instruction in applied research models, analysis and synthesis of professional literature, formulation of research questions, development of a plan of action, and problem solving within investigative inquiry.

EEX 7060  Seminar: Best Practices in Alternative and Special Education
3 sh (may be repeated for up to 6.0 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.

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.

EDUCATION: FOUNDATIONS AND POLICY STUDIES Courses

EDF 1005  Introduction to Education
3 sh (may not be repeated for credit)
Consideration of career opportunities in the field of education, including clinical experiences in selected agencies/institutions.

EDF 2085  Teaching Diverse Populations
3 sh (may not be repeated for credit)
Provides students with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. Attention will be given to teaching all children about ethnicity in a pluralistic society. Field experiences and examination of educational materials will enhance the students’ understanding of multiculturalism. Meets Multicultural Requirement.

EDF 3234  Applied Foundations of Education
3 sh (may not be repeated for credit)
Principles of growth, development and learning in the context of teaching in the schools of today. Methods of formal and informal assessment, measurement and evaluation are addressed and the ability to analyze educational phenomena in America and other countries from interpretive, normative and critical perspectives is developed. May include observation/participation in educational settings.

EDF 5255  Classroom Management: Harry Wong’s Approach
3 sh (may not be repeated for credit)
Provides students with the opportunity to gain knowledge and skills to practice classroom organization and structure to maximize student learning time. An end of course product will be a binder containing a personal classroom management plan.

EDF 6218  Psychological Foundations for Education: Learning and Instruction
3 sh (may not be repeated for credit)
Examines current theories of learning, behavior, cognitive development, and instruction and their practical application in educational practice. Beyond theories and their application will explore current issues in human development and learning. Develops knowledge and skills for determining an appropriate theoretical framework from which to investigate and solve education problems. Students complete a review of research in their area of emphasis to examine an issue in depth and apply their findings to educational practice. Recommended: Educational Statistics I.
EDF 6223  Positive Behavioral Change and System Support in Educational Settings  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6225, EDF 6226  
Positive behavioral support strategies, establishing system support for behavioral change, documenting behavioral change using single case design methodology in educational settings. Relation between behavior analysis, single case design, and best practices in education will be discussed.

EDF 6225  Foundations of Applied Behavior Analysis in Education  
3 sh (may not be repeated for credit)  
A basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts in the field of education. Includes a review of the national legislation that mandates the use of ABA in educational settings.

EDF 6226  Behavioral Assessments, Interventions, and Outcomes in Education  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6225  
Behavioral assessment, selecting behavioral outcomes, selecting behavioral strategies, and ethical and professional standards issues relevant to the practice of behavior analysis in educational settings.

EDF 6404  Educational Statistics I  
3 sh (may not be repeated for credit)  
Designed as an entry level course in statistics and covers both descriptive and inferential statistical techniques to solve applied research problems. Emphasis is also placed on using statistical software packages and will cover the most widely used statistical procedures in education.

EDF 6442  Assessment for Educational Leaders  
1 sh (may not be repeated for credit)  
Lead organizations to apply and create sound classroom assessment and standardized testing strategies.

EDF 6460  Foundations of Measurement  
3 sh (may not be repeated for credit)  
Provides an understanding of the nature of instrument and test development and focuses on the information and skills needed to design, develop, analyze, and interpret tests and instruments; the use of testing or instrument results in planning, monitoring, and evaluating instruction or programs; and to evaluate student or program progress. Intended to provide a foundation in testing and instrument development skills for those who work in a variety of applied settings.

EDF 6464  Applied Program Evaluation  
3 sh (may not be repeated for credit)  
Provides an introduction to program evaluation design, development, and implementation. Students will become familiar with a wide range of evaluation strategies, as well as how to interpret, use and communicate formative and summative evaluation results. These skills will be practiced through an applied research focus on using qualitative and quantitative data collection and analysis strategies to develop organizational accountability systems.

EDF 6475  Qualitative Research I - Methods  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6481  
Enables graduate students to comprehend and apply new research paradigms, strategies, and techniques to better understand social change and cultural settings. Qualitative research concepts, theories, and methods offer an empirical basis to explore nonnumeric data. Students will experience and practice a variety of qualitative applied research techniques designed to enhance learning.

EDF 6481  Educational Research  
3 sh (may not be repeated for credit)  
Develops skills for evaluating and for conducting applied research studies in an appropriate area of emphasis. Includes strategies of research appropriate for particular area of emphasis and methods appropriate for those strategies. Students are required to select a problem, perform a review of the research literature, plan a research study, and write a research proposal. Completion of EDF 6404 and EDF 6218 is recommended prior to taking this course.

EDF 6557  Ethics in Applied Behavior Analysis  
3 sh (may be repeated for up to 0.0 sh of credit)  
Prerequisite: EDF 6225, EDF 6223, EDF 6226  
Students will study and apply the ethical issues relevant to practicing behavior analysis and implications for the decisions they make in practice.

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 Understanding  
3 sh (may not be repeated for credit)  
Examines current issues in education from a multi-perspective point of view. Issues may include changes in school achievement, standardized testing, motivation, social, economic, and political pressures, character education, population make-up exceptionalities, new technologies, and the role of the public school in society. Will focus on understanding the biological, psychological and social factors that inform these issues.

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 6915  Action Research for Educational Leaders  
3 sh (may not be repeated for credit)  
Guides future educational leaders in the process of sound action research in order to support and sustain positive change to enhance student achievement in K12 schools.
EDF 6943 Supervised Experience in Single Case Design
3 sh (may be repeated for up to 9.0 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)
Prerequisite: EDF 6404
Designed as an intermediate course in statistics for students who work in applied settings. Emphasis is on the introduction of more complex topics such as regression and the various ANOVA models, and in developing knowledge and skill in the appropriate techniques and application of various statistical software packages. Permission is required.

EDF 7437 Measurement and Single Case Design
3 sh (may not be repeated for credit)
Measurement of behavioral data, data display, data interpretation, experimental evaluation of interventions, and ethical considerations of applied behavior analysis and research in educational settings. This course specifically addresses the function of Applied Behavior Analysis as applied to individuals with varying exceptionalities and particularly focuses on those diagnosed with Autism Spectrum Disorders. Continuous and accurate data collection, data interpretation, evaluation of intervention, and ethical considerations are crucial components to competent and responsible intervention for individuals on the Autism Spectrum.

EDF 7476 Survey Research
3 sh (may not be repeated for credit)
Prerequisite: EDF 7407, EDF 6475
Designed as an entry level course in survey research and includes design and selection of questionnaires and interviews as data collection instruments in both quantitative and qualitative research that is conducted in applied settings. Permission is required.

EDF 7477 Qualitative Research II - Theory
3 sh (may not be repeated for credit)
Prerequisite: EDF 6475
Focuses on major perspectives in contemporary social theory so as to attune students to the diverse connections between social theory and qualitative research. Covers the intersecting perspectives of feminist, postmodernist, social constructionist, multiculturalists, hermeneutic, and other theorists. Through practice exercises it provides students with opportunities to apply these perspectives to small samples of qualitative data in preparation for Qualitative Research III - Analysis. Finally in conjunction with Qualitative Research I and III this course equips students to undertake qualitative inquiry in their dissertations without needing further substantial preparation.

EDF 7478 Qualitative Research III - Analysis
3 sh (may not be repeated for credit)
Prerequisite: EDF 6475
Provides doctoral students advanced instruction to qualitative research analysis. Students are expected to have developed an understanding of their research skills in qualitative methodologies prior to enrollment. Will assist students in applying their methodological skills to their theoretical and philosophical orientations. Qualitative data analysis software (QDAS) will be used as a tool to enhance the research analysis process. Students are expected to work with their own research data through applied practical applications.

EDF 7489 Advanced Research Methods
1-3 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: EDF 6475 and EDF 6481
Identify a potential dissertation topic, analyze and synthesize research on the topic, and produce a concept paper for the dissertation to be presented to the dissertation committee. Study the application of both qualitative and quantitative research methodologies towards addressing a research problem. Apply concepts from educational research in synthesizing current research articles for the development of a research project. Gain expertise in educational research that will facilitate student research agendas for action research, thesis research, and dissertation research.

EDF 7573 Contemporary Curriculum Issues and Theories
3 sh (may not be repeated for credit)
Explores curriculum conceptions, contributions to curriculum decisions, issues and dilemmas in curriculum development, proposals for the organization of curriculum choices (both past and present), and analysis of curricular reforms. Theoretical foundations underlying curriculum considerations and implications of these for curriculum decision-makers at all levels.

EDF 7638 Social Change and Reform
3 sh (may not be repeated for credit)
The dynamics of social and cultural change in democratic societies with a special focus on social movements and collective behavior. Practical methodologies in common use among activist and other agents of social change. Provides participants with opportunities to develop and apply some social-change skills. Permission is required.

EDF 7659 Innovative Curriculum and Pedagogical Approaches
3 sh (may not be repeated for credit)
Provides students with opportunities to review, discuss and implement innovative curriculum and pedagogical strategies that connect school and community learning environments.
EDF 7685  Educational Foundations: A Philosophical and Multicultural Analysis
3 sh (may not be repeated for credit)
Aims to broaden and deepen students’ awareness of various educational philosophies and their influences in everyday classroom practice. Emphasis will be on the pluralism and diversity of educational ideas, the practical implication of such ideas, development of critical and analytical thinking and open mindedness. Completion of EDF 6602 is recommended prior to taking this course.

EDF 7944  Advanced Single Case Design in Applied Settings
3 sh (may not be repeated for credit)
Prerequisite: EDF 7437
Apply knowledge and skills of positive behavioral support and single case design to an identified problem in an educational setting. Evaluate programs of behavioral support and collaborative system support using single case designs.

EDF 8289  Curriculum Design
3 sh (may not be repeated for credit)
Historical, sociological, psychological and philosophical foundations of curriculum models, theory and design. Curriculum implementation, 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)
Prerequisite: EDF 7407
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)
Prerequisite: EDF 8406
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 applicative skills in the process of providing evidence of instrument reliability and validity. Permission is required.

EDF 8486  Advanced Quantitative Research and Statistics
3 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: EDF 7407, EDF 6475
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 8936  Advanced Qualitative Research and Strategies: Special Topics
3 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: EDF 6475, EDF 6481
Student will develop advanced skills required to conduct educational 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 8980  Dissertation
1-6 sh (may be repeated for up to 18.0 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.

EDUCATION: GENERAL Courses

EDG 3323C  General Methods for Teaching K-12 Students
3 sh (may not be repeated for credit)
General methods of planning, presenting and evaluating instruction, incorporating principles and skills of effective teaching required of all Florida teachers. Intended for non-education majors. Students will receive instruction in Reading Endorsement Competency 2 and strategies for working with ESL and diverse learners.

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 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 be repeated for up to 12.0 sh of credit)
Minimum of ten weeks of supervised teaching in a public or private school. Student Teaching assignments will be made by the Division of Teacher Education Field Placement Coordinator. Students are not allowed to take additional coursework or pursue employment during the student teaching experience without prior approval from the Teacher Education Field Placement Coordinator. Graded on a satisfactory/unsatisfactory basis only.

EDG 4941  Teaching Internship I
1-6 sh (may be repeated for up to 6.0 sh of credit)
Phase I of a year-long supervised teaching experience in public and private schools. (Students will register for this series in successive semesters.) Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/ Admission to Student Teaching).
EDG 4942 Teaching Internship II
1-6 sh (may be repeated for up to 6.0 sh of credit)
Phase II of year-long, supervised teaching experience in public or
private schools. (Students will register for this series in successive
semesters). Graded on satisfactory/unsatisfactory basis only. (See
Teacher Education/Admission to Student Teaching).

EDG 5250 Principles of Curriculum Development
3 sh (may not be repeated for credit)
Emphasis on school curricula, underlying theories, and strategies for
improvement make up the foundation for curricular reform. Students
intending to meet SDOE certification requirements should select
specialization areas. The specialization areas are (a) early childhood/
primary education, (b) middle school education, (d) secondary school
education, and (e) exceptional student education.

EDG 5289 Alternative Assessment of At-Risk Students
1 sh (may not be repeated for credit)
Introduces student of different alternative assessment instruments
to evaluate student performance of at-risk populations. Projects are
designed to assist in the development of classroom assessment
instruments for their specific curriculum.

EDG 5332 Principles of Instructional Design & Product Development
3 sh (may not be repeated for credit)
Selected concepts from communication, motivation, learning theory,
and principles of instructional design are examined as a basis for
developing instruction. Students develop a learning package utilizing a
theoretically based design.

EDG 5366 Investigative Strategies and Empirical Foundations
Learning and Development
3 sh (may not be repeated for credit)
Designed for graduate students in Teacher Education. Examines the
empirical foundations of teacher education, investigative strategies
and data sources used to study issues in teacher education. Students
will identify a possible area of research in their program of study and
will select a Faculty Mentor who will assist in the development of their
graduate program.

EDG 5411 Anger Control for At-Risk Students
1 sh (may not be repeated for credit)
Students will examine and identify the nature of anger and aggression
and will learn strategies for anger replacement. Students will
increase their proficiency in using replacement strategies with at-risk
populations.

EDG 5416 Classroom Management Practices for At-Risk Students
1 sh (may not be repeated for credit)
Content focuses on structuring the classroom for success, assessing
and managing individual and group behavior/academic achievement,
and motivating and managing exceptional and at-risk students.
This course is required for students participating in the Professional
Educator Preparation Program.

EDG 5420 Conflict Resolution Strategies for At-Risk Students
1 sh (may not be repeated for credit)
Introduces to professionals working with at-risk populations, several
theoretical concepts and current models for reducing/eliminating
conflict within at-risk populations. Students are expected to develop a
conflict resolution model for their use.

EDG 5421 Breaking the Cycle of Violence
1 sh (may not be repeated for credit)
Causes of violent behavior in at-risk populations are examined.
Strategies for reducing or eliminating violent behavior will be explored
by the students. Development of an action plan for violent behavior
reduction/elimination by the students is required.

EDG 5427 Involving Families of At-Risk Students
1 sh (may not be repeated for credit)
Students will explore concerns about parental involvement in the
educational process and will identify effective strategies which promote
the involvement plans to address some of the deficiencies which occur
that inhibit involvement of at-risk parents in the educational process.

EDG 5631 Building Resilience in At-Risk Students
1 sh (may not be repeated for credit)
Strategies which promote resilience in at-risk populations will be
explored by students. Successful practices will be reviewed involving
community and family influences.

EDG 5632 Guidance and Counseling Strategies for At-Risk Students
1 sh (may not be repeated for credit)
The study of research related to guidance and counseling strategies
for at-risk populations. Practical activities are provided to assist
students in the implementation of methods that promote a helping/
caring milieu for at-risk students.

EDG 5940 Graduate Student Teaching
1-6 sh (may be repeated for up to 6.0 sh of credit)
Graded on a satisfactory/unsatisfactory basis only.

EDG 6047 Advanced Issues for At-Risk Students
1 sh (may not be repeated for credit)
Overview of current research and theory related to issues of at-risk
populations is presented. Students will explore the roles of family,
school, community, and culture to determine the more effective
methods of building resilience in at-risk students.

EDG 6237 Setting Academic Goals for At-Risk Students
1 sh (may not be repeated for credit)
Educational strategies assigned to promote the setting of academic
goals by at-risk students are acquired through lecture, group projects,
and individual research. Students will develop motivational plans for
use with at-risk students.

EDG 6255 Alternative Instruction for At-Risk Students
1 sh (may not be repeated for credit)
Alternative instructional strategies for use with at-risk students
will be presented. Students will develop a classroom plan utilizing
alternative instructional techniques using Gardner’s Theory of Multiple
Intelligences as a basis.
EDG 6285  Data Driven Decisions Using Standardized Student Achievement Data  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6460  
Learning, Accountability, and Assessment is one of the new standards in Educational Leadership in Florida and it speaks specifically to the use of data in creating a school environment and curriculum that will enhance student learning. High Performing Leaders must monitor the success of all students in the learning processes to promote effective student performance, and use a variety of benchmarks, learning expectations, and feedback measures to ensure accountability for all participants engaged in the educational process. Using data to drive decisions is a critical component of the accountability system currently in place in Florida. Participants will develop skills in determining data needed to make certain decisions; in analyzing data; in communicating information about the decision making process to stakeholders. Specifically for administrators in the K12 educational setting.

EDG 6288  Educational Assessment  
1 sh (may not be repeated for credit)  
The focus of this course is assessment concepts that are critical for good teaching. Topics include measurement issues to determine assessment quality; teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; and interpreting standardized assessments commonly used in public schools. Required course for students participating in the Professional Educator Preparation Program.

EDG 6335  Advanced Instructional Design & Product Development  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 5332  
Analyzes, synthesizes, and evaluates instructional and learning theories and principles, taking into account a variety of situations and individual differences of learners. Develops a design and development plan and produces related materials accounting for various models of instructional design.

EDG 6412  Social Skills Intervention Techniques  
1 sh (may not be repeated for credit)  
Students will explore current curricula focusing on social skills development and the application to the remediation of at-risk populations. Students will participate in group interaction to develop techniques for delivery of social skills training to targeted at-risk populations.

EDG 6418  Recognizing and Working with Abuse Exposed Youth  
1 sh (may not be repeated for credit)  
Students explore background theory to better understand the dynamics of at-risk behaviors in abuse-exposed youth. Counseling and recovery techniques believed to be effective in working with abuse-exposed youth will be examined. Communication strategies will be enhanced in class group participation.

EDG 6621  Alternative Certification: Human Development and Learning  
1 sh (may not be repeated for credit)  
Drawing upon well-established human development/learning theories and concepts and a variety of information about students, the teacher plans instructional activities.

EDG 6630  Peer Pressure and Youth Gangs  
1 sh (may not be repeated for credit)  
Current research related to peer pressure and gang activity is presented. Students will develop research project and action plans which include abatement strategies for at-risk population.

EDG 6633  Drugs and Alcohol  
1 sh (may not be repeated for credit)  
The causes of alcohol and drug abuse and the identification of effective strategies for reducing or eliminating abuse behaviors are presented. Students will develop an intervention plan for use in reducing abusive behaviors in at-risk populations.

EDG 6705  Ethnic and Cultural Diversity  
1 sh (may not be repeated for credit)  
Theoretical and practical considerations for designing diverse, multicultural, and educational curricula are presented. Students will develop curricula for use with remediation of at-risk behaviors in diverse groups.

EDG 6791  Multicultural Education  
3 sh (may not be repeated for credit)  
Designed to acquaint students with basic concepts of multiculturalism including theoretical orientations to (1) the study of race and ethnicity in the United States; (2) race and ethnicity in American institutions; 3) race and ethnicity in popular culture and communities; and (4) the future of race and ethnic relations and the impact on teaching and learning in a pluralistic society.

EDG 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 3323(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 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 7221 Curriculum Issues and Theories
3 sh (may not be repeated for credit)
Explores various curricula models, issues and dilemmas in curricula development, and approaches to curricula reform. Examines theoretical perspectives as well as the practical ramifications for administrators, instructional supervisors, and classroom teachers.

EDG 7225 Teaching Critical and Social Issues
3 sh (may not be repeated for credit)
Provides students with opportunities to design curriculum that includes critical, social, and controversial issues and to practice teaching using innovative pedagogical strategies.

EDG 7241 Social Justice and Inequities
3 sh (may not be repeated for credit)
Offers a comprehensive look at inequality and social-justice issues in American society. Using Patricia Hill Collins' notion of a matrix of domination as a central concept, focuses on institutionalized hierarchies and systems of domination both historical and current based on race, ethnicity, sexual orientation, social class, gender, disability, and age, and on how social hierarchies intersect and reinforce each other.

EDG 7303 Analysis of Learning and Teaching Practices
1-3 sh (may be repeated for up to 3.0 sh of credit)
Advanced study of theories and research on teaching and learning and their application to instructional practices; emphasis on professional leadership in decision making related to teaching practices and creating or restructuring learning environments.

EDG 7346 Advanced Analysis of Curriculum and Instruction
3 sh (may not be repeated for credit)
Enables students to utilize research based curriculum and instruction models to analyze and evaluate teaching processes for the purpose of improving instructional programs. Skill development in feedback and coaching techniques and strategies effective in orchestrating change in instructional practices will also be a focus.

EDG 7363 Applications of Current Research in Teaching and Learning
3 sh (may not be repeated for credit)
Provides advanced study of the theoretical knowledge bases, methodologies and applications of current research topics in teaching and learning to a variety of subject areas and educational settings. Required for the doctoral specialization in teaching and learning.

EDG 7458 Analysis of Alternative Assessment Methods
3 sh (may not be repeated for credit)
Advanced study of current theories and research on assessment with emphasis on alternative methods of assessing learning; designing multiple forms of assessment that tap into higher level thinking and allow students to demonstrate knowledge of processes and skills of problem solving and knowledge of concepts.

EDG 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)
Prerequisite: EDF 6481 and EDF 7407.
Provides students with an understanding of how to undertake a research thesis. Concepts include format, style, literature reviews, hypothesis formulation, research design and statistical application.

EDG 8980 Dissertation
1-18 sh (may be repeated for up to 36.0 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction program. This dissertation will reflect intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required.

EDUCATION: GI FTED Courses

EGI 5051 Nature and Needs of Gifted
3 sh (may not be repeated for credit)
Evaluation, identification and characteristics of gifted children and youth including those from special populations. Cultural, psychological and physiological factors of giftedness and their implications for educational programming.

EGI 6246 Education of Special Populations of Gifted Students
3 sh (may not be repeated for credit)
Examines the incidence and effect of handicapping condition on the education of students who are gifted. Specifically, examines educational adaptations that can be made to meet the needs of children and youth who are gifted and labeled handicapped.

EGI 6305 Theory and Development of Creativity
3 sh (may not be repeated for credit)
Designed to examine a variety of theories of creativity in school aged children. Appropriate educational activities, placement and instructional support will be examined.

EGI 6415 Guidance of Learning and Counseling of Gifted Students
3 sh (may not be repeated for credit)
Programming the total learning experience for gifted students and meeting the unique counseling needs of the gifted student and his/her parents with an emphasis on awareness, knowledge, and understanding of students who are gifted and talented or from special populations as well as developing strategies to design and implement counseling programs for the unique socio-emotional needs of the gifted/talented student. Unique challenges and opportunities the gifted and talented children and adolescents have in the classroom and the role of the counselor as advocate.
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.

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 assistantship and transitional issues from being a graduate student to a new professional such as establishing a professional identity and social media pitfalls.

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 6948  Internship in Higher Education
3 sh (may be repeated for up to 6.0 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.

EDUCATION: MIDDLE SCHOOL Courses

EDM 3230
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 prof at the tech level will be emphasized.
EDM 3942  Field Experience 1
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234, EDM 3230, EDM 3322
This experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 4310  Instruction, Management, and Assessment- Middle
3 sh (may not be repeated for credit)
Strategies for managing the classroom, instruction, and evaluation as it relates to teaching the essential school competencies.

EDM 4402  Educational Assessment
3 sh (may not be repeated for credit)
Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments; (3) interpreting standardized assessments commonly used in public schools.

EDM 4943  Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EDM 3942, TSL 4080
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 6235  Integrated Curriculum and Instruction/Middle Level Education
3 sh (may not be repeated for credit)
Advanced curriculum for graduate middle level education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphasis of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

EDM 6405  School Involvement and Community Relations
3 sh (may not be repeated for credit)
Investigate techniques and strategies for developing and implementing effective home, school, community involvement programs at the middle school level. Emphasis will be placed on materials and techniques for communicating effectively with families from a variety of cultural backgrounds and the implications for industrial, labor and community relations as they impact the middle school level.

EDM 6411  Practical Applications and Issues in Classroom Management: Middle Level Education
3 sh (may not be repeated for credit)
Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for middle level classroom management. Develop a knowledge base of classroom practices and application for individual, small group, and large groups in student respective grade level or education settings.

EDM 6911  Action Research
1-6 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EDM 6912
Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

EDM 6912  Research Practicum
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EDG 5366
Identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

EDM 6944  Graduate Methods/ESOL/Reading Practicum: Middle Level
3 sh (may not be repeated for credit)
Co-requisite: LAE 6325, MAE 6361, SCE 6265, or SSE 6326.
Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations, required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL, and reading strategies is included.

EDUCATION: SECONDARY Courses

ESE 3304C  General Methods for Teaching Secondary School Subjects
3 sh (may not be repeated for credit)
General methods of planning, presenting, and evaluating instruction, incorporating legal requirements and principles and skills of effective teaching embodied within the Florida accomplished practices. Intended for majors in the various secondary teacher education programs.
ESE 4322  Instruction, Management, and Assessment: Secondary Education
3 sh (may not be repeated for credit)
Strategies for managing the classroom, instruction and evaluation as it relates to teaching the essential school competencies.

ESE 4323  Educational Assessment
3 sh (may not be repeated for credit)
Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

ESE 4940  Field Experience 1
3 sh (may be repeated for up to 6.0 sh of credit)
This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Throughout this experience students will work in a variety of classroom settings. Students will also complete a minimum of 100 hours in a field placement. Successful students will demonstrate proficiency on the Florida Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities and assessments of students from diverse backgrounds, e.g., culturally and linguistically diverse, and students at risk for school failure. Permission is required.

ESE 6035  School Involvement and Community Relations
3 sh (may not be repeated for credit)
Investigate techniques and strategies for developing and implementing effective home, school, community involvement programs at the secondary level. Emphasis will be placed on materials and techniques for communicating effectively with families from a variety of cultural backgrounds and the implications for industrial, labor and community relations as they impact the secondary school level.

ESE 6217  Integrated Curriculum and Instruction/Secondary Education
3 sh (may not be repeated for credit)
Advanced curriculum course for graduate secondary education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphases of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

ESE 6343  Practical Applications and Issues in Classroom Management: Secondary Education
3 sh (may not be repeated for credit)
Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for secondary education classroom management. Develop a knowledge base of classroom management practices and application to individual, small group, and large groups in student respective grade level or education settings.

ESE 6421  Research Practicum
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EDG 5366
Identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

ESE 6426  Action Research
1-6 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ESE 6421
Implementation of proposal prepared in Research Practicum including implementation of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

ESE 6944  Graduate Methods/ESOL/Reading Practicum: Secondary Education
3 sh (may not be repeated for credit)
Co-requisite: MAE 6361 or SSE 6326
Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations, required and conclusions drawn about the impact of the new approach on pupil’s achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL, and reading strategies is included.

EDUCATION: SUPERVISION Courses

EDS 6105  Human Relations and Communication in Education
3 sh (may not be repeated for credit)
Theoretical and experiential framework for maximizing human relations and communication within the educational domain including principles of persuasion, public information management, effective communication strategies and personal effectiveness with staff and the public.

EDUCATION: TECHNOLOGY AND MEDIA Courses

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.
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 3301  Network Infrastructure: Planning, Design and Implementation**
12 sh (may not be repeated for credit)
Design hardened networks, provide network design services for enterprises. Plan and maintain network infrastructure, including TCP/IP networking, networking services, network security, active directory. Configure servers, computers, and user environments. Troubleshoot network environment. Permission is required.

**EME 3402  Information Technology Implementation Case Studies**
3 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570
Technology Systems professionals develop, implement, and operate systems composed of computers, networks, and telecommunications services. Topics related to information technology systems and information technology systems implementation will be explored and case studies will be used to illustrate the complex nature of the profession. In this survey of the field, students build foundational knowledge and skills they need to become effective Technology Systems professionals.

**EME 3406  Web Presence Deployment Strategies**
4 sh (may not be repeated for credit)
Prerequisite: EME 3402
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 3313  Digital Media Services Operations**
3 sh (may not be repeated for credit)
Prerequisite: EME 3402
Multimedia development tools are employed by learners to produce and analyze the properties of multimedia objects. Learners define the performance and quality parameters of media objects and document the development processes necessary to create and deploy them. Learners evaluate the production and deployment processes for media components in the context of media project management and delivery operations. Learners examine the delivery system infrastructure requirements supporting media operations and the implication of those requirements for enterprise network planning and operation.

**EME 4454  Technology Systems Implementation Strategies**
3 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570
Learners examine a distance learning technology implementation problem as a model for applying a systematic design, planning and development process to implement a large technology system. Learners will design a distributed learning system that uses emerging technologies to support distance delivery. They will produce planning documents that include system design, technical specifications, maintenance technologies, project budgeting, resource sequencing and scheduling, requests for proposal development, project bid evaluation tools, and system performance evaluation processes.

**EME 4622  Technology Systems Operations 1**
4 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570
Students will develop skills and abilities to effectively manage the operations of a networked technology system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include in-depth examination and appropriate applications in each functional area. Hardware and software tools that are required to perform network management tasks will be examined.

**EME 4627  Technology Systems Operations 2**
4 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570
Students learn advanced principles associated with designing, developing and operating technology systems for large organizations spanning one or sites.

**EME 4944  Internship/Practica**
3 sh (may not be repeated for credit)
Observation of and participation in technology systems related roles in professional settings. Students participate in field-based experiences related to their course of study and future goals. Prerequisite: Permission of instructor.

**EME 5355  Instructional Design for HPT**
1.5 sh (may not be repeated for credit)
Instructional Systems Design is the basis of creating instructional-based interventions. Performance professionals and other non-instructional designers must be able to articulate systematic ways of integrating instructional interventions into the workplace from a pedagogical and practical viewpoint. Emphasized will be theories and models that support the design of instruction. Focus areas will include instructional strategies and media selection techniques, with an emphasis on integrating media rich elements into instruction.
EME 5403 Education and Training Technology Support Systems 4 sh (may not be repeated for credit)

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 4622; 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 4444; 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.

EME 6054 Foundations of Instructional Technology 3 sh (may not be repeated for credit)

Students investigate historical, sociological, and philosophical perspectives of instructional technology in education and training environments. Students develop the knowledge, skills, and abilities needed to integrate instructional technology theories and processes into education and training settings. Credit may not be received in both EME 6054 and EME 6053.

EME 6062 Applied Instructional Technology Investigations 3 sh (may not be repeated for credit)

This course provides an introduction to past, present, and future instructional technology research. Research paradigms and underlying theory appropriate for IT are emphasized. Quantitative, qualitative, and mixed methods research designs and appropriate data analysis techniques are explored.

EME 6256 Creativity and Innovation in the Learning Organization 3 sh (may not be repeated for credit)

Designed for students who believe they will one day be involved in a creative, entrepreneurial or "intrapreneural" (corporate) opportunity within the learning organization (or invent a new learning organization) and would like to understand how to draw from their own creative skills. Students will engage with several innovation case studies of learning organizations as well as participate in applied assignments to support pedagogical innovation. Various strategies to promote disruptive innovation will also be explored in terms of how it impacts radical change in the learning organization. Creating a culture of creativity and innovation within the teaching and learning environment is paramount to this course. This course prepares students to contribute in unique and extremely productive ways to impact today's organizational demands.

EME 6314 Technology for Leaders 3 sh (may not be repeated for credit)

Provides leaders with the basic terminology, historical perspectives, theoretical basis, research and practical application of instructional technology to empower persons and professionals who work in educational settings. Builds knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques.

EME 6316C Instructional Management and Technology 3 sh (may not be repeated for credit)

Survey of the applications and uses of technology from a variety of perspectives, including education, training, military, public sector, and non-profits. Focusing on technology, information, and information technology literacy. Special attention is paid to providing a systematic view of the use of technology and information in organizations.

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.

EME 6357 Instrument Design for Performance Technology 1.5 sh (may not be repeated for credit)

Selection, design, development and critique of data collection instruments used in PT. Students develop skills to select appropriate data collection methods, critically examine existing instruments and design and develop new, situation-specific instruments to be used for PT process in a variety of organizational settings.

EME 6358 Evaluation for MSA Professionals 1.5 sh (may not be repeated for credit)

Develop skills in selecting appropriate models for conducting an evaluation in an administrative environment. A series of models will be evaluated for applicability and use in administrative environments.

EME 6408 Integrated Technology Learning Environments 3 sh (may not be repeated for credit)

Prerequisite: EME 6316C

Students evaluate how technology is impacting education and training from an instructional systems perspective, students will review what educational and training leaders are promoting for the future, what new approaches exist, and how to integrate this into a technology-rich learning environment. All content will be woven around current national and state reform and accountability efforts; standards for instructional technology; and competencies for instructional designers.

EME 6409 Distance Learning Implementation 3 sh (may not be repeated for credit)

Examines current theories, technologies and strategies related to the design, development, and implementation of effective, efficient distance learning systems. Students will critique existing distance learning systems, examine the roles and responsibilities of instructors and students in distance learning and design, develop, and implement a theoretically sound distance learning experience.
Models of human performance technology, associated processes, and procedures for completing the tasks ascribed to the various stages within the models/processes are explored.
Performance Technology Professionals face a range of issues resulting from the implementation of PT theories and models. In this course, topics such as performance consulting, performance analysis, interventions will be explored. Strategies for implementation of the topic will be integrated into applications of performance technology.

Observation and participation in instructional and performance technology organizational settings. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

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.

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.

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and 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.

Skills and knowledge to integrate specialized content across the middle level curriculum. Instructional tools and ways to organize and communicate information are examined.

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ETE 3323 Integrated Methods I for C&T
3 sh (may not be repeated for credit)

Skills and knowledge to integrate specialized content across the middle level curriculum. Instructional tools and ways to organize and communicate information are examined.

ETE 5145 Integrated Learning Environment Portfolios
3 sh (may not be repeated for credit)

The effects of invention and innovation on society. Content focus is on manufacturing technologies. Prepares teachers to be able to teach materials and manufacturing processes technology.

ETE 4155 Technology Education Systems
3 sh (may not be repeated for credit)

Prepares teachers to be able to teach technological systems. The focus of the content is energy and power technology topics and activities in the schools.

ETE 4203 Program Management in Technical Education
3 sh (may not be repeated for credit)

Planning, designing, organizing, and managing the learning environment in technology education classrooms and laboratories. Includes student motivation, learning management systems, and the basics of drafting and design.

ETE 4344 Methods for Teaching Middle School/High School Technology Education
3 sh (may not be repeated for credit)

Prepares teachers to teach technology education in middle and high schools. Provides instruction in standards-based instructional planning, methods, resources, and assessment.

ETE 4415 Exploring Technology Education Settings
3 sh (may not be repeated for credit)

Explores the application of technology in everyday life. Content area of focus is information and communication technologies. Prepares teachers to be able to teach the design of websites and use websites as part of the technology education program.

ETE 4436 Technology Education Systems
3 sh (may not be repeated for credit)

Prepares teachers to be able to teach technological systems. The focus of the content is energy and power technology topics and activities in the schools.

ETE 4444 Technological Design in Technology Education
3 sh (may not be repeated for credit)

Describes the importance of technological design. Introduces engineering design as a high school model.

ETE 4463 Technology Education Assessment
3 sh (may not be repeated for credit)

Technology assessment with an emphasis on medical and bio-related technologies.

ETE 4473 Impacts of Technology for Technology Systems
3 sh (may not be repeated for credit)

The major impacts of technology with focus on transportation technologies. Prepares teachers to be able to teach transportation technologies and transportation systems. Special emphasis is placed on automotive technologies.

ETE 4694 Invention and Innovation for Technology Education
3 sh (may not be repeated for credit)

ETE 5145 Integrated Learning Environment Portfolios
3 sh (may not be repeated for credit)

Producing a management portfolio for an integrated learning environment.
ETE 5345 Advanced Methodology for Technology Education
3 sh (may not be repeated for credit)
Curriculum for standards based instruction, planning, and various methodologies.

ETE 6416 Advanced Technology Education Exploration
3 sh (may not be repeated for credit)
A research-based approach to exploring the applications of technology in everyday life. Areas of focus is information and communications technologies. Prepares students to be able to teach the design of websites and use websites as part of the technology program.

ETE 6426 Technology Education and Construction Technology
3 sh (may not be repeated for credit)
Uses a construction technology approach to describe the importance of technological design. Topics include the nature and impact of technology.

ETE 6437 Energy and Power Technology
3 sh (may not be repeated for credit)
A case study approach to prepare candidates to be able to teach technological systems. Focus on energy and power technology topics and activities in the schools.

ETE 6456 Technology and Engineering Design
3 sh (may not be repeated for credit)
Uses a design brief focus to describe the importance of technological design. Also introduces engineering as a high school model.

ETE 6476 Technology Education and Manufacturing
3 sh (may not be repeated for credit)
An integrated methods approach to describe the effects of invention and innovation on society. The content focus is on manufacturing technologies. Prepares teachers to be able to teach materials and manufacturing processes technology.

ETE 6478 Technology Transportation System
3 sh (may not be repeated for credit)
Employs a research-based approach to the major impacts of technology with focus through transportation technologies. Also prepares teachers to be able to teach transportation technologies and transportation systems. Special emphasis is placed on automotive technologies.

**EDUCATIONAL ADMINISTRATION Courses**

EDA 5191 Leadership in Education: School Improvement Theory and Practice
3 sh (may not be repeated for credit)
Leadership theories and planning models which have been developed through studies in education, business, industry, and the military will be examined. Application of these will be made to educational practices with a focus on continuous improvement and on the school improvement process.

EDA 6061 Educational Organization and Administration
3 sh (may not be repeated for credit)
Examines the structure, organization and management of modern education. Emphasis is upon basic theories, principles and competencies in educational administration.

EDA 6063 Introduction to Educational Leadership
3 sh (may not be repeated for credit)
An introduction for graduate students to the educational leadership program. Major topics will be leadership, William Cecil Golden Modules, Code of Ethics, communication—both verbal and nonverbal, and interpersonal skills. Permission is required.

EDA 6222 Administration of School Personnel
2-3 sh (may be repeated for up to 3.0 sh of credit)
Focus is on the improvement of educational programs through the proper management of human resources. Emphasis is upon recruitment, selection placement, and evaluation of school personnel.

EDA 6232 Law and Education
3 sh (may not be repeated for credit)
Examines law and its relationship to education. Students study constitutional law, legislative enactments, school policies, and the relationships among these aspects of school law as they pertain to administration. Tort liability, due process for students, corporal punishment, teacher contracts, and other law relating to authority and responsibility of teachers and administrators are included.

EDA 6240 Introduction to School Finance
3 sh (may not be repeated for credit)
Focus is on principles, trends, and practices in financing public education, including federal, state, and local financial support programs. School finance as related to taxation and other areas of school finance is included. Fiscal policies, planning, and management as related to the total education program are central themes.

EDA 6503 The Principalship
3 sh (may not be repeated for credit)
Prerequisite: EDS 6105
Focus is on problems, practices, and theories pertinent to the administration of building level programs in elementary, middle, and secondary schools. Includes planning, staffing, implementing, and evaluation techniques needed to administer a school program.

EDA 7217 Effective Communication Techniques
3 sh (may not be repeated for credit)
Prerequisite: EDS 6105
Broad based study of communication skills and techniques, both interpersonal and media oriented, that emphasize strategies used by outstanding educational leaders within and outside the educational domain.

EDA 7423 School Reform: Research to Practice
3 sh (may not be repeated for credit)
Covers the use of research in determining the relationship of school administration to the community; educational decision-making in the context of local politics; community analysis; public relations; public participation in educational planning; school advisory councils; dealing with parents; and implications for school administrators and boards of education.

EDA 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.
**ELECTRICAL AND ELECTRONIC ENGINEERING Courses**

EEE 3308  Electronic Circuits I  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3111, EGN 3203  
Co-requisite: EEE 4308L  
Fundamentals of analog electronic circuits and systems. A grade of "C" or better is required in the prerequisites.

EEE 3396  Solid-State Electronic Devices  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3111 and CHM 2045  
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: EEL 3112, EEE 3308, and EEE 4308L  
Co-requisite: EEE 4306L  
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 4308L  Electronic Circuits II Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: EEL 3112, EEE 3308, and EEE 4308L all with a grade of C (2.0/4.0) or better  
Co-requisite: EEE 4306  
Electronic Circuits II laboratory. A grade of "C" or better is required in the prerequisites. Material and Supply fee will be assessed.

EEE 4308L  Electronics Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: EEL 3117L  
Co-requisite: EEE 3308  
Electronic instrumentation devices and systems. Material and Supply Fee will be assessed. A grade of "C" or better is required in the prerequisites. Credit may not be received in both EEE 4308L and EEL 4304L.

EEE 4310  VLSI Circuit Design  
3 sh (may not be repeated for credit)  
Prerequisite: EEE 3308 and EEL 3701  
Analysis and design of digital circuits using MOS and bipolar devices.

**ELECTRONIC ENGINEERING TECHNOLOGY Courses**

EET 2142C  Electronics II  
3 sh (may not be repeated for credit)  
Prerequisite: EET 2141C  
Develop competency in basic electronic circuits. Theoretical and practical aspects of electronic circuits such as voltage regulators, filters, wave generation and shaping circuits, multi-vibrators and power supply are presented. Hands-on experiences in the lab provide experimental analysis and verifications.

EET 3038C  Advanced Circuit Analysis  
4 sh (may not be repeated for credit)  
Advanced course in circuit analysis that stresses network theorems; solutions of time and frequency domain problems; magnetic coupling; three phase circuits; transformer theory and impedance matching; two-port parameters. Includes a computer lab to analyze the above circuits. DC and AC courses, offered at Junior and Community colleges under various course numbers are required. An introductory course in programming is also needed.

EET 3218C  Control Systems Technology  
4 sh (may be repeated for up to 5.0 sh of credit)  
Prerequisite: MAC 1105  
To develop basic knowledge on; controllers and their principles, control loop characteristics, selection, design and development of feedback control systems.

EET 3321C  Communication Systems  
4 sh (may not be repeated for credit)  
Develops competencies in the theory and industrial application of modern communication systems. Introductory course with experiments in transmission systems, waveguides, fiber optics, microwaves, and lasers.

EEE 3949  Cooperative Education  
1-2 sh (may be repeated for up to 4.0 sh of credit)  
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of Cooperative Education director is required.

EET 4146  Electronic Circuits and Application Technology  
3 sh (may not be repeated for credit)  
Application of theoretical concepts in analog electronic circuits and development of electronic projects. Processes involved in the design and development of an electronic project with hands-on experience, including working with electronic circuits and project design techniques such as development of drawing, testing using multism, troubleshooting, and bread board and actually preparing the product on the printed circuit board.

EET 4356C  Advanced Communication  
4 sh (may not be repeated for credit)  
Prerequisite: EET 3212C  
Advanced concepts in digital communication systems; students will study and conduct laboratory experiments in advanced communication systems (video, facsimile, telephone, modems, RS232, cellular phones, networks and fiber optics).
EET 4513  Electric Machinery
3 sh (may not be repeated for credit)

Study of electric machinery, including direct current motor and
generator, induction and synchronous motors and generators for single
phase and three phase systems. Emphasis is on practical applications,
principles of operation and performance characteristics. Courses in AC
and DC circuits are required.

EET 4930  Seminar: Electrical Engineering Technology
3 sh (may be repeated for up to 99.9 sh of credit)
Participation in advanced discussions of electrical engineering
technology. Topics will vary depending upon the needs of each class
of students. Senior status in electrical engineering technology is
required.

EET 4941  Internship/Project in Electrical Engineering Technology
3 sh (may be repeated for up to 6.0 sh of credit)
Observation and participation in electrical engineering technology
based project/seminar with a training related settings. Designed
to reinforce academic preparation; confirm education and career
goals; and facilitate personal and professional development. Students
participate in field-based experiences related to their course of study
and future goals. Permission is required.

ELECTRONIC SPECIALTY TECHNOLOGY

Courses

EST 3543  Programmable Logic Controllers
4 sh (may be repeated for up to 8.0 sh of credit)
Prerequisite: MAC 1105

Explore logic fundamentals, programming technologies, integrated
circuits, and number systems to operate and test systems using
programmable logic protocol.

EST 4538  Instrumentation
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049 or PHY 2054

The industrial application of instrumentation. Electrical, mechanical,
and pneumatic instrument applications.

EST 4538L  Instrumentation and Control Laboratory
1 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: MAC 1105 and EST 4538
Co-requisite: EST 4538

Laboratory course accompanying EST 4538. Application of analog
digital signal conditioning, the interface of sensors and readout
devices or computers. Various methods of analog and digital signal
conditioning and an assortment of sensors including those used for the
measurement of temperature, pressure, strain, and light are studied.

ENGINEERING TECHNOLOGY = POWER

Courses

ETP 4240  Power Systems Technology
3 sh (may not be repeated for credit)

Investigation of the technical aspects of generation, transmission and
distribution of electrical power systems; circuit constants, assemblies
of power systems, distribution of electrical energy, faults and behavior
of power system equipments.

ENGINEERING TECHNOLOGY: DRAFTING

Courses

ETD 2320  Computer Aided Design
3 sh (may not be repeated for credit)
Application of industrial standard CAD program. Develop skills in CAD
processes and procedures while working on real-world projects.

ENGINEERING TECHNOLOGY: INDUSTRIAL

Courses

ETI 3445  Construction Estimating
3 sh (may not be repeated for credit)
Processes involved in estimating, including the formats appropriate
for construction jobs and projects. Terminology, software options,
and general requirements will be explored. Modeling of real-world
experiences will include a project bid and formal "mock" bid opening.

ENGINEERING: ELECTRICAL

Courses

EEL 2948  Service Learning Field Study I
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting
related to field of study. Supervision by faculty and agency. Students
and faculty "customize" courses to fit a full range of services that
are available in the setting. Student must be able to draw correlation
between the discipline and field study. Journal and reflective
experience paper are required. With the agreement of the student's
faculty sponsor, a minimum of 4-6 hours per week must be done at the
field site per semester hour of credit. Permission is required.

EEL 3111  Circuits I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313, PHY 2049
Co-requisite: EEL 3117L, EGN 3203

Basic Analysis of DC and AC electric circuits. A grade of "C" or better
is required in the prerequisite(s).

EEL 3112  Circuits II
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111 and MAP 2302
Co-requisite: EGM 4313

Continuation of EEL 3111 with emphasis on circuit applications
of convolution, the Fourier series, and the Laplace and Fourier
transforms. A grade of "C" or better is required in the prerequisite(s).

EEL 3117L  Electrical Circuits Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 3111
Co-requisite: EEL 3111

Introductory electrical engineering laboratory in electrical
instrumentation, devices, and systems. Material and Supply Fee will
be assessed. Credit may not be received in both EEL 3117L and EEL
3303L.

EEL 3135  Discrete-Time Signals and Systems
3 sh (may not be repeated for credit)
Prerequisite: EGN 3203 or EEL 4834 with a "C" or better
Co-requisite: EEL 3112 with a grade of "C" or better

Difference equations, discrete convolutions, the z transform, discrete
and fast Fourier transforms, digital processing of analog signals,
sampling theorem, probability and random signals.
EEL 3211  Basic Electric Energy Engineering  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3111  
Co-requisite: EEL 3112  
Analysis and modeling of power system components. Magnetic circuits, energy conservation, transformers, AC and DC rotating machines. A grade of "C" or better is required in the prerequisite(s).

EEL 3472  Electromagnetic Fields and Applications I  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2312 and PHY 2049; both with a grade of C or better  
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 1114  
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)  
Co-requisite: EEL 3701  
Practical applications of digital logic. Material and Supply Fee will be assessed.

EEL 4213  Electric Energy Systems 1  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3211  
System models for generators, transformers, transmission lines and large-scale power networks. Matrix formulations, power flow and analysis, symmetrical component theory, balanced and unbalanced fault analysis. A grade of "C" or better is required in the prerequisite(s).

EEL 4242  Power Electronic Circuits  
3 sh (may not be repeated for credit)  
Prerequisite: EEE 3308 with a grade of C or better  
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 4242C  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 4283  Introduction to Renewable Energy  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1102, PHY 2049, CHM 2045 with C or better  
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 4514  Communication Systems and Components  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3112, EEL 3135, EGM 4313  
Co-requisite: EEL 4514L  
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 4308L with C or better  
Co-requisite: EEL 4514  
Experiments with communication circuits and radio frequency instruments, devices, and measurements. Material and Supply Fee will be assessed.

EEL 4515  Digital Communications  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3112, EEL 3135, STA 4321, EGM 4313. All prerequisites must be completed with a "C" or better.  

EEL 4610  State Variables and Control  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 4657 with a grade of "C" (2.0/4.0) or better.  
Development of state-variable approach to linear continuous-time and discrete-time systems with emphasis on the design of feedback control system including stabilizing compensators, state estimators and controllers for tracking and disturbance rejection. A grade of "C" or better is required in the prerequisite(s). Material and Supply Fee will be assessed.

EEL 4635  Digital Control Systems  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3135, EEL 3701, EEL 4657  
A study of the digital computer as a control element, classical sampled data control theory, and application with microcomputers. A grade of "C" or better is required in the prerequisites.

EEL 4657  Linear Control Systems  
3 sh (may not be repeated for credit)  
Prerequisite: EEL 3112  
Co-requisite: EEL 3135  
Theory and design of linear control systems. A grade of "C" or better is required in the prerequisite.
EEL 4657L  Linear Controls Laboratory
1 sh (may not be repeated for credit)
Co-requisite: EEL 4657
Practical applications of linear control theory.

EEL 4663  Elements of Robotics
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112
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 4744
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 the prerequisite(s).

EEL 4712L  Digital Design Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 4744L
Co-requisite: EEL 4712
Design and applications of advanced digital logic using VHDL. A grade of "C" or better is required in the prerequisite(s). Material and Supply Fee will be assessed.

EEL 4713  Digital Computer Architecture
3 sh (may not be repeated for credit)
Prerequisite: EEL 4744
The use of electronic digital modules to design computers. Organization and operation of computers. Hardware/software trade-offs. Design of computer interfacing. A grade of "C" or better is required in the prerequisite(s).

EEL 4713L  Digital Computer Architecture Lab
1 sh (may not be repeated for credit)
Prerequisite: EEL 3701 and EEL 3701L
Co-requisite: EEL 4713
Computer design and organization. A grade of "C" or better is required in the prerequisites. Material and Supply Fee will be assessed.

EEL 4744  Microprocessor Applications
3 sh (may not be repeated for credit)
Prerequisite: EEL 4834 and EEL 3701 with a grade of "C" or better (2.0/4.0).
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 3701L, EEL 4834
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: EGN 3203 and EEL 3112 with a grade of C or better, or permission of the instructor
An introduction to digital images and digital image processing techniques, including frequency and spatial image enhancement, image restoration, wavelets and morphology.

EEL 4834  Programming for Engineers
3 sh (may not be repeated for credit)
Prerequisite: MAC 1114 with a grade of C or better.
Co-requisite: MAC 2311
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
1-4 sh (may be repeated for up to 4.0 sh of 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 4914C  Electrical Engineering Design
3 sh (may not be repeated for credit)
Selected design projects involving engineering applications in the various areas of electrical engineering. Laboratory. Senior standing is required. Material and Supply Fee will be assessed.

EEL 4920  Engineering Internship
1 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: EEL 3111 or EEL 3701
Practical and significant electrical and/or computer engineering based work experience under approved industrial supervision. Graded on a Satisfactory/ Unsatisfactory basis only. Permission from department co-op advisor is required.

EEL 4929  Co-Op Work Experience
1 sh (may be repeated for up to 4.0 sh of credit)
Practical co-op work under approved industrial supervision. Grading is on S/U basis only. Permission is required.

ENGINEERING: GENERAL Courses

EGN 1002  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.
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.

EGN 1945  Industrial Practicum
0-1 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: 30 Semester Credit Hours
Engineering practice in local industry. Course cannot be used for credit towards an engineering degree. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

EGN 2414C  Introduction to Engineering Design and Practice
3 sh (may not be repeated for credit)
Understand basic project design from initiation to fruition. The student will have worked with other engineers and will have decided if engineering is a viable option as a career.

EGM 2500  Engineering Mechanics-Statics
2 sh (may not be repeated for credit)
Prerequisite: PHY 2048
Co-requisite: MAC 2313
Covers basic aspects of reduction of force systems, equilibrium of particles and rigid bodies, vector methods, and application to structures and mechanisms.

EGM 3401  Engineering Mechanics-Dynamics
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500 and MAC 2313
Covers material of EGM 3400 plus extended coverage of three dimensional rigid-body dynamics and of orbital motion.

EGM 4313  Intermediate Engineering Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 with a grade of "C" or higher
Co-requisite: MAP 2302 (can be taken prior to or at the same time as EGM 4313)
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. Engineering applications of statistics.

ENGINEERING: SUPPORT Courses

EGS 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.

ENGLISH COMPOSITION Courses

ENC 1101  English Composition I
3 sh (may not be repeated for credit)
Guided practice in critical thinking and the writing process for various rhetorical situations. Documented paper is included. Requires additional work in the Writing Center. (Gordon Rule Course: Wrtg) and (General Studies Course: COM/C1).

ENC 1102  English Composition II
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101
Continuation of ENC 1101, with emphasis on complexities of style and rhetorical strategies. Documented paper is included. Course requires additional work in the Writing Center. (Gordon Rule Course: Wrtg), and (General Studies Course: COM. C2).

ENC 3240  Technical Writing
3 sh (may not be repeated for credit)
Practice in preparing documents used in science, business, industry, and government, including letters, manuals, reports and proposals. (Gordon Rule Course: Wrtg).

ENC 3250  Professional Writing
3 sh (may not be repeated for credit)
Prerequisite: Grade of "C" in both ENC 1101 and ENC 1102
Professional writing course relevant in business, industry, government, and other institutional settings; major elements of written organizational communication with emphasis on composition of letters, memos, proposals, etc. (Gordon Rule Course: Wrtg).

ENC 4940  Writing and Editing Internship
3-6 sh (may be repeated for up to 6.0 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 9.0 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 5945  English Internship
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: 12 hours of graduate courses completed
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.

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 4203  Old English Language
3 sh (may not be repeated for credit)
Language instruction for speaking, writing, and reading Old English.

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 8.0 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 4241  Milton
3 sh (may not be repeated for credit)
Studies in major figures or movements in British literature until 1789.

ENL 4242  Shakespeare
3 sh (may not be repeated for credit)
Selected comedies, histories and tragedies.

ENL 4243  Chaucer
3 sh (may not be repeated for credit)
Canterbury Tales read in Middle English.

ENL 4244  Milton
3 sh (may not be repeated for credit)
Major and selected poems; emphasis on reading of Paradise Lost.

ENL 5206  Old English Language
3 sh (may not be repeated for credit)
Language instruction for speaking, writing, and reading Old English.

ENL 5297  Topics in British Literature to the Romantics
3 sh (may be repeated for up to 12.0 sh of credit)
Studies in major figures or movements in British literature until 1789.

ENL 5298  Topics in British Literature from the Romantics to the Present
3 sh (may be repeated for up to 12.0 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.

ENGLISH: GENERAL Courses

ENG 3010  Critical Methods for Literary Study
3 sh (may not be repeated for credit)
Development of writing and critical thinking skills specific to the study of literature. English majors and minors only. Credit may not be received in both ENG 3010 and ENC 3320. (Gordon Rule course: Wrtg).

ENG 3113  Fiction and Film
3 sh (may not be repeated for credit)
Selected prose fiction and film adaptations.

ENG 3843  Theories of Sexuality and Gender
3 sh (may not be repeated for credit)
Examines sexuality and gender as social constructs as opposed to "natural" categories or "essences." Includes feminism, gay and lesbian studies, and masculinity studies. Draws on many disciplines, including literature, history, sociology, anthropology, philosophy, and the sciences.
ENG 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.

ENG 4934  Capstone Experience
3 sh (may not be repeated for credit)
Prerequisite: 12 hours of upper division coursework in English; at least 6 of those hours must have been at the 4000 level.

Covers a wide range of literary genres and works that have been considered controversial at some point in their history because of their subject matter, form, or style. Changing attitudes toward what is considered "literature" or "literary" will be emphasized. Required texts will vary according to instructor's expertise. Permission is required.

ENG 5009  Introduction to Advanced Literary Study
3 sh (may not be repeated for credit)

Examination of the history and current state of literary studies and introduction to current methods and resources necessary for advanced literary studies.

ENG 5067  History of the English Language
3 sh (may not be repeated for credit)

Presents the history of the development of the English language, internal and external, from Indo-European roots to the present.

ENG 6018  History of Literary Theory
3 sh (may not be repeated for credit)
Prerequisite: ENG 5009

Survey of literary theory from Plato to contemporary thought.

ENG 6019  Topics in Literary Theory
3 sh (may not be repeated for credit)
Prerequisite: ENG 5009 and ENG 6018

Topics in literary theory.

ENG 6971  Thesis
1-6 sh (may be repeated for up to 12.0 sh of credit)

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

EVS 4192C  Environmental Soil Science
3 sh (may not be repeated for credit)

Examines the delicate nature of soils and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Offered concurrently with EVS 5194C (Environmental Soil Science); 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)
Prerequisite: GEO 3260, GEO 3260L, GEO 4280, GEO 4280L.

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.

EVS 6940  Internship
1-3 sh (may be repeated for up to 6.0 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 12.0 sh of credit)

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

ENVIRONMENTAL STUDIES Courses

EVR 3894  Environmental Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 and ENC 1102

Practice in the scientific methods, research approaches, reference styles, grantsmanship, and technical writing in the environmental sciences. (Gordon Rule Course: Wrtg).

EVR 4023  Coastal and Marine Environments
3 sh (may not be repeated for credit)
Prerequisite: GLY 2010, GLY 2010L or GEO 1200, GEO 1200L.

The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers.

EVR 4035  Environmental Law
3 sh (may not be repeated for credit)

Overview of current local, state and federal laws relating to the environment. Includes the legal history of current laws and case studies.
Court opinions on major land-use cases.

Students are exposed to a number of critical U.S. Supreme Court opinions on major land-use cases.

The course reviews the evolution of public control 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.

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.

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.

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 or urban planning and zoning, to contemporary 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.

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.

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS/MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 4050; graduate students will be assigned additional work.

Environmental Auditing
3 sh (may not be repeated for credit)
Prerequisite: 60 semester hours required.

Overview of the evolution of environmental regulations and the adoption of environmental initiatives by the private business sector. Compliance audits, property assessments, and contingent liability audits will be conducted.

Environmental Field Research
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GEO 1200/L or GLY 2010/L

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS/MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

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.

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.

Urban Planning
3 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or GLY 3031C

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 or urban planning and zoning, to contemporary 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.

Environmental Auditing
3 sh (may not be repeated for credit)
Prerequisite: 60 semester hours required.

Overview of the evolution of environmental regulations and the adoption of environmental initiatives by the private business sector. Compliance audits, property assessments, and contingent liability audits will be conducted.

Environmental Field Research
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GEO 1200/L or GLY 2010/L

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS/MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

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.

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.

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3 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or GLY 3031C

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Environmental Auditing
3 sh (may not be repeated for credit)
Prerequisite: 60 semester hours required.

Overview of the evolution of environmental regulations and the adoption of environmental initiatives by the private business sector. Compliance audits, property assessments, and contingent liability audits will be conducted.

Environmental Field Research
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GEO 1200/L or GLY 2010/L

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS/MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

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.

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.

Urban Planning
3 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or GLY 3031C

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 or urban planning and zoning, to contemporary 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.
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. (General Studies Course: SS/HIS) 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. (General Studies Course: SS/HIS) Meets Multicultural requirement.

EUH 3121 Fall of Rome, Birth of Europe
3 sh (may not be repeated for credit)
Analysis of the continuity and changes in the social, religious, and political life of what constituted Rome’s empire following its decline. Study of the converging cultures that created Europe. Covers the period 400-1050.

EUH 3122 High Middle Ages
3 sh (may not be repeated for credit)
Covers the formation of Europe from 1050-1450, a period of dramatic change. Dispels the notion of the “Dark Ages” by analyzing social alignments, religious reform, the rise of universities, economic advancement, and the development of constitutional forms of government.

EUH 3200 Early Modern Europe
3 sh (may not be repeated for credit)
Developing nations emphasizing political, social, economic, cultural, and intellectual aspects of Europe from 1500 through French Revolution and Napoleonic period.

EUH 3203 Modern Europe
3 sh (may not be repeated for credit)
European history since 1815, emphasizing contemporary problems, their historical development and interpretations. Meets Multicultural requirement.

EUH 3280 The Second World War
3 sh (may not be repeated for credit)
Examines the military, social, political, diplomatic, cultural, and economic aspects of the Allied and Axis powers on all fronts of World War II.

EUH 3411 Rome and the Mediterranean World
3 sh (may not be repeated for credit)
The development of Rome from a tiny town to its domination of the entire Mediterranean. Focuses on the structures of family, government, and military that allowed for this ascendancy. Includes Rome’s cultural evolution, social relationships, wealth, and women’s roles. Meets Multicultural requirement.

EUH 3502 England Since 1485
3 sh (may not be repeated for credit)
Political, social, cultural and intellectual history of England in modern period stressing growth and development of Britain and Empire/Commonwealth in contemporary world.

EUH 3570 Russia to 1917
3 sh (may not be repeated for credit)
Beginning with the formation of Kievan Russia in the 10th century, traces the history of Russia until the October Revolution of 1917. Topics considered include the Mongol yoke, the expansion of Muscovy, imperial Russia, the rise of socialism, and the First World War.

EUH 3576 Soviet Union since 1917
3 sh (may not be repeated for credit)
Starting with the October Revolution of 1917, this course traces the history of the Soviet Union through its disintegration in the early 1990s. Topics considered include War Communism, Lenin’s New Economic Policy, Stalinism, the Khrushchev and Brezhnev eras, Gorbachev’s reforms, the collapse of the Soviet Union, and the emergence of successor states. Meets Multicultural requirement.

EUH 4142 Renaissance and Reformation
3 sh (may not be repeated for credit)
A topical introduction to the major changes affecting European society from 1300 to 1650. Focuses on economic change, social stratification, cultural diffusion, political rivalries, and religious crossroads. Special coverage of consumerism, social welfare, education, toleration, and women and families.

EUH 4190 Age of Discovery
3 sh (may not be repeated for credit)
In the late fifteenth through the seventeenth century Europeans set sail beyond known coastlines to explore new trade routes to Africa, Asia, and the New World. Examines European expansion in maritime history and explores factors that allowed for voyages of discovery, the voyages themselves, and the results of initial cultural contact.

EUH 4239 Europe’s Expansion Overseas
3 sh (may not be repeated for credit)

EUH 4242 The First World War
3 sh (may not be repeated for credit)
Origins, evolution and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany’s culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflict in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 5246; graduate students will be assigned additional work.

EUH 4245 Interwar Europe 1918-1939
3 sh (may not be repeated for credit)
Examines events in selected countries of Europe between the First and Second World Wars. Lectures and readings will consider many aspects of European life, with an emphasis on political, economic, and social issues. In each section, the focus will be on how states cultivated or failed at maintaining representative democracy.
EUH 4334   Czechs and Slovaks in the Modern Era  
3 sh (may not be repeated for credit)  
Located in the heart of Europe, the Czechs and Slovaks are an integral part of European history. Examines these two Slavic ethnic groups, beginning in the middle ages. It will consider the Bohemian ethnic kingdom, the Slovaks under the Hungarians, and the separate development of the Czechs and Slovaks in the Habsburg Monarchy. Most of the course will focus on the late nineteenth and twentieth centuries, when the two ethnic groups experienced interrupted state-building experiences. Through the history of the Czechs and Slovaks, students will achieve a better understanding of East-Central Europe and the Balkan states as these regions build market economics and pluralistic democratic political systems. 

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 predominante 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. Offered concurrently with EUH 5517; graduate students will be assigned additional work. 

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 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 4541   The Scottish Enlightenment  
3 sh (may not be repeated for credit)  
Examines the political, social, economic, philosophical, cultural, and religious developments unique to 18th century Scotland. Known widely as the Scottish Enlightenment, the events, ideas, and individuals that defined this unique and influential phenomenon will also be studied in light of the larger enlightenment concomitantly consuming the continent of Europe, and the pivotal impact the Scots had on the development of the American colonies and the American founding. 

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 5246   The First World War  
3 sh (may not be repeated for credit)  
Origins, evolutions, 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 conflicts in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 4242; graduate students will be assigned 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,
ascendancy of Adolf Hitler and subsequent erosion of traditional
European culture. Military and political leaders who served
predominate roles within the Third Reich will be studied and discussed,
as will the myriad para-military organizations within the Nazi Party.
Offered concurrently with EUH 4465; graduate students will be
assigned additional work.

EUH 5517  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. Offered concurrently with
EUH 4511; graduate students will be assigned additional work.

EUH 5539  England and America from the Colonial Period to the
Present
3 sh (may not be repeated for credit)
Intensive study and analysis of the social, cultural, economic and
political forces which served both England and America during the
first two centuries of the British Empire. Offered concurrently with
EUH 4535; graduate students will be assigned additional work.

EUH 6295  Seminar: Interpretation of European History 1648-Present
3 sh (may not be repeated for credit)
Advanced seminar in historiography of European history from the end
of the Thirty Years War to the present. Focus is on the interpretation of
historical writing on specific topics during the Early Modern periods of
European history.

EUH 6338  Seminar: East Central Europe and the Balkans
3 sh (may not be repeated for credit)
Students will examine a specific aspect of a state, ethnic group, or
region in East-Central Europe and the Balkans since 1815. Requires
readings and reports, but the largest portion of the grade is based on
an analytical research paper using primary and secondary sources.

EUH 6666  European Ideologies and Political Movements Since 1789
3 sh (may not be repeated for credit)
Examines the great political ideologies, movements, and theories that
shaped not only European affairs but Western thought as a whole from
the time of the French Revolution to the present.

EXPERIMENTAL ANALYSIS OF BEHAVIOR Courses

EAB 4704  Introduction to Behavior Modification
3 sh (may not be repeated for credit)
Principles and practical application of behavior modification techniques
in a wide variety of settings: school, home, medical and business.
Especially appropriate for non-psychology majors.

EAB 5705  Advanced Behavior Modification
3 sh (may not be repeated for credit)
Prerequisite: EXP 4404, or an undergraduate degree in Psychology
Experimental psychology literature surveyed for relevant theories and
techniques for dealing with problems in human behavior in a variety of
settings including home, school, business and clinic.

EAB 5738  Behavioral Medicine
3 sh (may not be repeated for credit)
Application of psychological expertise to problems in medicine.
Emphasis primarily on role of behavioral principles and techniques
in the treatment of medically related complaints and traditional
psychosomatic disorders.

EXPERIMENTAL PSYCHOLOGY Courses

EXP 4204  Sensation and Perception
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023, PSY 3213, PSY 3215
Will survey the theory and literature related to the study of sensation
and perception. Topics will include the neural mechanisms involved in
coding sensory information, visual processing, audition, speech
perception, cutaneous and chemical senses, development of
perceptual processes, and impairment of vision and hearing.

EXP 4250  Human Factors Psychology
3 sh (may not be repeated for credit)
Surveys the field of human factors psychology. Specifically, the
principles of psychology from various specialty areas (e.g., cognitive,
experimental, industrial/organizational, physiological etc.) will be
applied to the study of human performance in work settings. Students
will learn how work is designed to capitalize on cognitive and physical
capabilities and compensate for human limitations. Students will also
become familiar with the tools and techniques that human factors
psychologists use to study human-machine interaction and work
design. Offered concurrently with EXP 5256; graduate students will be
assigned additional work.

EXP 4404  Psychology of Learning
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Principles and applications of learning theories, including conditioning
and extinction, reinforcement and punishment, attention, memory,
cognitive processes and physiological correlates of memory and
cognition. It is preferred that the student has had several other
psychology courses.

EXP 4507  Memory and Cognition
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023, PSY 3213, PSY 3215
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 4507L Laboratory in Memory and Cognition
1 sh (may not be repeated for credit)
Prerequisite: STA 2023, EXP 4404
Co-requisite: EXP 4404
Students will learn about the research methods used to investigate topics in memory and cognition. Students will conduct experiments, perform statistical analysis appropriate for the data generated, and prepare brief reports of results using APA style. Students will complete a final project in which they design and conduct an experiment in the area of memory and cognition, analyze the data, and prepare an APA style research report.

EXP 5208 Advanced Sensation and Perception
3 sh (may not be repeated for credit)
Prerequisite: EXP 4204
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 5506 Advanced Cognitive Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 3213 and PSY 3215 and EXP 4404; or an undergraduate degree in Psych
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.

FILM Courses
FIL 4036 History of Motion Pictures I
3 sh (may not be repeated for credit)
Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 5038; graduate students will be assigned additional work.

FIL 4037 History of Motion Pictures II
3 sh (may not be repeated for credit)
Significant development in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screenings. Offered concurrently with FIL 5039; graduate students will be assigned additional work.

FIL 4102 Writing for Film-Television-Radio
3 sh (may not be repeated for credit)
Study and practice of writing for the mass media: screenplays, teleplays, radio and TV commercials, public affairs. Study of various script formats, story board and other presentation material. (Gordon Rule Course: WRTG).

FIL 4117 Advanced Film Writing
3 sh (may not be repeated for credit)
Study and practice of writing full-length feature film script.

FIL 4364 Documentary Film and Television
3 sh (may not be repeated for credit)
Historical and sociological study of the development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 5367; graduate students will be assigned additional work.

FIL 4435 Digital Film Making
3 sh (may not be repeated for credit)
Introduction and practice in all three phases of film production: pre-production planning, scripting, cinematography and editing. Utilization of digital cameras and non-linear editing. Production of short films by each student. Offered concurrently with FIL 5437; graduate students will be assigned additional work. Permission is required.

FIL 4439C Practicum: Film Production
3 sh (may not be repeated for up to 10.0 sh of credit)
Prerequisite: FIL 4435
Practical experience in advanced film production. Permission is required.
FIL 4556  Nonlinear Editing  
3 sh (may not be repeated for credit)  
Prerequisite: FIL 4435  
Guides the intermediate filmmaking student through more advanced experiences in analyzing and editing motion picture projects in the digital non-linear environment.

FIL 5038  History of Motion Pictures I  
3 sh (may not be repeated for credit)  
Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 4036; graduate students will be assigned additional work.

FIL 5039  History of Motion Pictures II  
3 sh (may not be repeated for credit)  
Significant developments in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screening. Offered concurrently with FIL 4037; graduate students will be assigned additional work.

FIL 5367  Documentary Film and Television  
3 sh (may not be repeated for credit)  
Historical and sociological study of development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 4364; graduate students will be assigned additional work.

FIL 5437  Digital Film Making  
3 sh (may not be repeated for credit)  
Introduction and practice in all three phases of film production: pre-production planning, scripting, cinematography and editing. Utilization of digital cameras and non-linear editing. Production of short film by each student. Offered concurrently with FIL 4435; graduate students will be assigned additional work.

FINANCE Courses

FIN 2104  Personal Financial Planning  
3 sh (may not be repeated for credit)  
Survey of personal financial planning topics. Includes: managing money and credit, personal loans, insurance, investments, home ownership and taxes.

FIN 3244  Financial Markets and Institutions  
3 sh (may not be repeated for credit)  
Prerequisite: (ACG 2071 or ACG 3082), (ECO 2013 and ECO 2023 or ECO 3003)  
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 or ACG 3082, ECO 2013 and ECO 2023 or ECO 3003, STA 2023  
Analytical concepts available to financial manager in acquisition and effective utilization of funds in relation to other management functions.

FIN 3949  Cooperative Education  
1-2 sh (may be repeated for up to 4.0 sh of credit)  
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only.  
Permission of director of Cooperative Education is required.

FIN 4145  Portfolio Planning for Individual Investors  
3 sh (may not be repeated for credit)  
Portfolio planning for individual investors with emphasis on preparing an individual portfolio containing stocks, bonds, money market securities, and real estate.

FIN 4324  Commercial Bank Management  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3244, FIN 3403  

FIN 4414  Financial Theory and Practice  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403  
Designed as an extension of FIN 3403. Topics such as risk and return, stock and bond valuation, time value of money, and capital budgeting, will be covered in greater depth. New topics will include lease financing, hybrid financing, international finance, et al.

FIN 4424  Problems in Corporate Finance  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 4414, ACG 3101 or ACG 3172  
Cases and readings in corporation finance in areas of capital budgeting, working capital management, capital structure, cost of capital, mergers, reorganizations, and international finance.

FIN 4440  Controllership  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403; and either ACG 3111 or ACG 3343  
Introduction to the controllership function within an economic entity. Emphasis is placed upon budgeting and working capital management and control.

FIN 4504  Investments  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403  
Introduction to an extensive development of theoretical concepts related to areas of securities analysis and portfolio management.

FIN 4514  Security Analysis and Portfolio Management  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3244, FIN 4504  
Portfolio construction, management and measurement bridging modern theory and practice.
FIN 4941  Financial Services Internship  
1-6 sh (may be repeated for up to 6.0 sh of credit)  
Prerequisite: FIN 3403  
Supervised field practicum in financial services-related position. May include activities in any one or more of the functional areas in financial services (commercial banking, mutual funds and investments, insurance, real estate and personal financial planning). Graded on a satisfactory/unsatisfactory basis only. Permission is required.

FIN 6406  Financial Management  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403 and QMB 6305  
Advanced treatment of investment and financing decisions of firms, emphasis on current theory and practice. Course contains a portfolio project. Permission is required.

**FRENCH LANGUAGE Courses**

FRE 1120C  French I  
4 sh (may not be repeated for credit)  
For students with no knowledge of French or with less than two years of high school French. The purpose is to lay a foundation for speaking, writing and reading the language. One hour of lab work is required per week.

FRE 1121C  French II  
4 sh (may not be repeated for credit)  
Continuation of FRE 1120C. One hour of lab work per week is required.

FRE 2200  Intermediate Reading and Translation  
3 sh (may not be repeated for credit)  
For students who have previous experience in French, but are not yet prepared for advanced work in the language.

FRE 2210  Intermediate Composition & Conversation  
3 sh (may not be repeated for credit)  
Practical oral communication course for students on an intermediate level. Prepares students for FRE 2200.

FRE 4955  Supervised Foreign Language Field Experience Abroad  
1-3 sh (may be repeated for up to 99.9 sh of 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.

**GENERAL BUSINESS Courses**

GEB 1011  Introduction to Business  
3 sh (may not be repeated for credit)  
Provides in-depth coverage of all aspects of business by presenting an integrated and balanced review of the external and internal forces that comprise business and economic systems. Intended primarily for freshmen/sophomores to assist the student’s selection of a business career or business major. (General Studies Course: SS/SOC).

GEB 3004  Career Strategies  
2 sh (may not be repeated for credit)  
Focuses on students’ transition from college to the next step out of college. The mechanics of the job search and preparation for life after college will be discussed. Students will learn proper resume and professional correspondence development, interviewing scenarios, practice the fine art of networking, and develop a job search plan. Other topics such as business etiquette and dress, alternative career paths, and personal financial management/budgets will be discussed. Graded on a Satisfactory/Unsatisfactory basis only.

GEB 3032  Business Foundations for Non-Business Majors  
3 sh (may not be repeated for credit)  
Provides non-business students a foundation in the functional areas of management, marketing, finance, accounting and economics. Designed to provide students with a knowledge base that will give access to a broad range of upper level business courses. Available only to non-business majors.

GEB 3213  Writing for Business: Theory and Practice  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1101, ENC 1102  
Augments the basics of business writing while reviewing the various kinds of written business correspondence. Students are expected to integrate ethical decision making skills, word processing skills, grammar and writing skills, and analytical thinking skills into the content. Students must be able to determine solutions to problem based exercises. Team assignments and oral presentations may relate to student’s discipline. (Gordon Rule Course: Wrtg).

GEB 3453  Business Ethics and Stakeholder Management  
3 sh (may not be repeated for credit)  
Prerequisite: ACG 2071, ECO 2023, 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, MAN 3025, 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 4942  Internship Pensacola: Professional Development Seminar  
3 sh (may not be repeated for credit)  
Taken in conjunction with an internship. Designed to enhance the internship experience by presenting topics to help students succeed in an internship and career. Seminar format includes discussion of readings, oral presentations, group discussions, role-playing, and in-class reflections. Guest speakers will present in their areas of expertise. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.
GEB 5509  Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit 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 5870  MBA Foundations: e-Business Systems
1.5 sh (may not be repeated for credit)
Prerequisite: GEB 5872, GEB 5875
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 not be repeated for 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 not be repeated for 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 not be repeated for credit)
Prerequisite: GEB 5872
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 not be repeated for credit)
Prerequisite: GEB 5872, GEB 5873
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 not be repeated for 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 not be repeated for 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 5877  MBA Foundations: Applied Managerial Statistics
1.5 sh (may not be repeated for credit)
Prerequisite: MAT 1033
A course in the Accelerated MBA Foundations Series in which students are provided with a managerial approach to fundamental statistical concepts including descriptive statistics, measures of location, measures of dispersion, basic probability theory, the normal distribution, inferential statistics, basic notions of hypothesis testing, and introduction to correlation analysis. Permission is required.

GEB 5878  MBA Foundations: Business Process Integration
1.5 sh (may not be repeated for credit)
Prerequisite: Completion of the Accelerated MBA Foundations Series: GEB 5871 - GEB 5876.
The capstone course in the Accelerated MBA Foundations Series 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 Analysis
1-3 sh (may be repeated for up to 3.0 sh of 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 5930  MBA Foundations: Information Resources and Industry Analysis
1.5 sh (may not be repeated for credit)
Provides the background for beginning the MBA Portfolio. Gives introduction to information resources available to perform business problem analysis. Students learn to prepare a thorough analysis of their Portfolio industry.

GEB 6116  Venture Development
3 sh (may not be repeated for credit)
Prerequisite: GEB 6118
Students learn how to develop a start-up business. Includes constructing a board of directors, adding managers for key functions, reaching revenue targets and ultimately going public.

GEB 6118  New Ventures
3 sh (may not be repeated for credit)
Prerequisite: GEB 5872, GEB 5873
Students learn how to start a new business. They develop a list of potential opportunities, evaluate the opportunities and learn how to seek seed capital (through the elevator speech and the business plan) with an eye toward the profitability horizon.

GEB 6895  Business and Public Policy
3 sh (may not be repeated for credit)
Develops expertise in the use of a set of tools to analyze the effect of economic, regulatory and tax policies (external environment) on the business environment and the conduct of business in domestic and international markets. Ethical implications of business response to these environments are also considered.

GENERAL HISTORY AND HISTORIOGRAPHY 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.

HIS 3313  Issues in Gender and Diversity
3 sh (may not be repeated for credit)
Provides an interdisciplinary introduction to the theoretical and social issues regarding diverse groups and gender stereotypes. Focuses on how gender and diversity fit into the actions and interactions of the private and public sectors, and presents information on how to effectively promote institutions, relationships, politics, and services that value diversity and eliminate gender stereotypes.

HIS 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

HIS 4066  Local History
3 sh (may not be repeated for credit)
Introduction to theory, methodology, and application of local history. Required attendance on field trips to local historical archives, museums, and sites.

HIS 4072  Oral and Community History
3 sh (may not be repeated for credit)
Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 5077; graduate students will be assigned additional work.

HIS 4080  Introduction to Archival Management
3 sh (may not be repeated for credit)
Provides an introduction to the basic theories, methodologies, and archival practices of appraisal, acquisition, arrangement, description, preservation, and reference services for historical records and archives. Offered concurrently with HIS 5082; graduate students will be assigned additional work.

HIS 4284  Maritime History
3 sh (may not be repeated for credit)
Survey of impact of oceans, rivers and other bodies of water upon 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 4413  History of Maritime Law
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 4955  Overseas and Field Study in History
1-6 sh (may be repeated for up to 6.0 sh of 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 5077  Oral and Community History
3 sh (may not be repeated for credit)
Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 4072; graduate students will be assigned additional work.
HIS 5082  Introduction to Archival Management
3 sh (may not be repeated for credit)
Provides an introduction to the basic theories, methodologies, and archival practices of appraisal, acquisition, arrangement, description, preservation, and reference services for historical records and archives. Offered concurrently with HIS 4080; graduate students will be assigned additional work.

HIS 5087  Advanced Museology
3 sh (may not be repeated for credit)
Prerequisite: ARH 4830C
Historical museum operation: philosophy, administration, ethics, and public responsibility.

HIS 5515  History of Architecture
3 sh (may not be repeated for credit)
Examines the development of European architecture as a basis for understanding trends in American architecture from the colonial era to the twentieth century. Introduces the professional aspects of building and construction along with materials and techniques in building restoration and renovation.

HIS 6055  Public History Methodology
3 sh (may not be repeated for credit)
Public History practice and methodology focusing on community history, museology, policy history, environmental history, and media history.

HIS 6056  Graduate History Practicum
1-6 sh (may be repeated for up to 6.0 sh of 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 6097  Heritage Areas, Corridors, and Parkways
3 sh (may not be repeated for credit)
Planning, implementation, and operation of historic preservation projects covering extensive areas and incorporating numerous historic and cultural resources. Comprehensive components of a general management plan and a general stewardship plan necessary for the establishment and operation of heritage areas, corridors, and parkways are studied. Explores the historical forces making such extensive historic preservation areas important to local, regional, and national history.

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 6904  Directed Readings
1-3 sh (may be repeated for up to 3.0 sh of credit)
Permission is required.

HIS 6911  Master's Research
1-3 sh (may be repeated for up to 3.0 sh of credit)
Permission is required.

HIS 6956  Advanced Overseas and Field Study in History
1-6 sh (may be repeated for up to 6.0 sh of 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 6.0 sh of credit)
Graded on satisfactory/unsatisfactory basis only. Permission is required.

GENERAL OCEANOGRAPHY Courses
OCE 4265  Remote Sensing of Oceans
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311
Provides a foundation in cartographic and remote sensing principles, and practical experience with remote sensing applications as they relate to the world's oceans. It examines basic concepts of electromagnetic radiation and its interaction with earth. Remotely sensed images from sensors such as SeaWiFS, AVHRR, and Topex/ Poseidon will be discussed. Exercises will cover ocean color, sea surface temperature altimetry, and sea ice.

GEOGRAPHIC INFORMATION SCIENCE Courses
GIS 3015  Cartographic Skills
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200, GEO 1200L or GLY 2010, GLY 2010L
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.

GIS 3015L  Cartographic Skills Lab
0 sh (may not be repeated for credit)
Co-requisite: GIS 3015
Corresponding lab for Cartographic Skills.

GIS 4035  Photo Interpretation and Remote Sensing
4 sh (may not be repeated for credit)
Prerequisite: GIS 3015/L
Co-requisite: GIS 4035L
Applied skills emphasizing the fundamentals of aerial photograph interpretation and basics of multiband spectral reconnaissance of the environment-multispectral photography, infrared, microwave scanning and multifrequency radar systems. Application includes their uses in the study of cultural and biophysical phenomena. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 4131 and GIS 4035.
GIS 4035L  Photo Interpretation and Remote Sensing Lab
0 sh (may not be repeated for credit)
Co-requisite: GIS 4035
Corresponding lab for Photo Interpretation and Remote Sensing.

GIS 4036  Applications in Remote Sensing
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4043L
The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 5039; graduate students will be assigned additional work. Permission is required.

GIS 4043  Geographic Information Systems
3 sh (may not be repeated for credit)
Co-requisite: GIS 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.

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.

GIS 4048  Applications in Geographic Information Systems
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4043L
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.

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.

GIS 4102  GIS Programming
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 & 4043L
Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 5103; graduate students will be assigned additional work. Permission required. Credit may not be received in both GIS 4102 and GIS 5103.

GIS 4260  GIS Applications for Archaeology
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 with lab
This course will serve as an introduction to archeological 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.

GIS 4930  Special Topics in Geographic Information Science
3 sh (may be repeated for up to 6.0 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.

GIS 4944  GIS Internship
1-3 sh (may be repeated for up to 3.0 sh of 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 4971  GIS Internship
1 sh (may not be repeated for credit)
Co-requisite: GIS 4043
Graduate level塘籍 as GIS 4944. Permission is required.

GIS 4972  GIS Internship
1 sh (may not be repeated for credit)
Co-requisite: GIS 4043
Graduate level塘籍 as GIS 4944. Permission is required.

GIS 4973  GIS Internship
1 sh (may not be repeated for credit)
Co-requisite: GIS 4043
Graduate level塘籍 as GIS 4944. Permission is required.

GIS 4974  GIS Internship
1 sh (may not be repeated for credit)
Co-requisite: GIS 4043
Graduate level塘籍 as GIS 4944. Permission is required.

GIS 5039  Applications in Remote Sensing
3 sh (may not be repeated for credit)
Prerequisite: GIS 4035 and GIS 4035L
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 5100  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 4048; graduate students will be assigned additional work.

GIS 5103  GIS Programming
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4043L
Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 4102; graduate students will be assigned additional work. Permission is required. Credit may not be received in both GIS 4102 and GIS 5103.
GIS 5265  GIS Applications for Archaeology
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 with Lab

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 management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects.

GIS 5935  Special Topics in Geographic Science
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GIS 4043, GIS 4035, GIS 4035L

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.

GIS 5945  GIS Internship
1-3 sh (may be repeated for up to 3.0 sh of 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 final presentation.

GIS 6110  Advanced Topics in Geographic Information Science
3 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4048

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.

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.

GIS 6955  GIS Capstone
6 sh (may not be repeated for credit)
Prerequisite: GIS 6555, GIS 6005, GIS 6110

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 outputs for presentation.

GEOGRAPHY: REGIONAL AREAS Courses

GEA 2000  Nations and Regions of the World
3 sh (may not be repeated for credit)

Regional treatment of the physical & cultural environments of the world. Interdependence of peoples and nations of the world will be stressed within the context of environmental attributes and shortcomings and human responses to environmental opportunities or limitations. (General Studies Course: SS/SOC) Meets Multicultural requirement.

GEA 4212  Geography of North America
3 sh (may not be repeated for credit)
Prerequisite: GEA 2000

A regional survey of the United States and Canada, with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 5214; graduate students will be assigned additional work.

GEA 4405  Geography of Latin America
3 sh (may not be repeated for credit)

A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Meets Multicultural requirement.

GEA 4635  Geography of the Middle East
3 sh (may not be repeated for credit)

A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 5637; graduate students will be assigned additional work.

GEA 4730  Geography of Japan
3 sh (may not be repeated for credit)

A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.
GEA 5214 Geography of North America
3 sh (may not be repeated for credit)
Prerequisite: GEA 2000
A regional survey of the United States and Canada with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 4212; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEA 5637 Geography of the Middle East
3 sh (may not be repeated for credit)
A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 4635; 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 GEO 4730; graduate students will be assigned additional work.

GEOGRAPHY: SYSTEMATIC Courses

GEO 1200 Physical Geography
4 sh (may not be repeated for credit)
Co-requisite: GEO 1200L
Relationship between natural environment and man. Weather, climate, soils, biogeography and land forms. Physical earth treated so that the student gains appreciation of man's place and activities within his/her environment. (General Studies Course: NS/LEC) Material and supply fee will be assessed for corresponding lab.

GEO 1200L Physical Geography Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 1200
Corresponding lab for Physical Geography.

GEO 2330 Environmental Science
3 sh (may not be repeated for credit)
Study of interrelationships between human activity and the natural systems in our environment. Interdisciplinary approach to the study of natural processes and how they affect and are affected by human activity. Particular emphasis will be given to examination of the ways in which science offers solutions to the pressure human activity places on natural resources. (General Studies Course: NS/LEC).

GEO 3210 Geomorphology
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200, GEO 1200L or GLY 2010, GLY 2010L
Co-requisite: GEO 3210L
Description of landforms and landscapes on the Earth's surface, along with a systematic analysis of the geomorphic processes that produce them. Emphasis is placed on the climatic and geologic controls on landscape evolution. Material and supply fee will be assessed for corresponding lab.

GEO 3210L Geomorphology Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 3210
Corresponding lab for Geomorphology.

GEO 3250 Weather and Climate
4 sh (may not be repeated for credit)
Prerequisite: (GEO 1200 and GEO 1200L) or (GLY 2010 and GLY 2010L)
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, microclimate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

GEO 3250L Weather and Climate Lab
0 sh (may not be repeated for credit)
Co-requisite: GEO 3250
Corresponding Lab for Weather and Climate.

GEO 3260 Geography of Soils
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200, GEO 1200L or GLY 2010, GLY 2010L; CHM 2045, CHM 2045L

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.

GEO 3372 Conservation of Natural Resources
3 sh (may not be repeated for credit)
Nature and extent of mineral, soil, water, forest and wildlife resources and their conservation, with particular emphasis on the United States against a general background of world resources. Conservation philosophies, practices and their geographic bases. Occasional field trips may be arranged.
GEO 3421  Cultural Geography  
3 sh (may not be repeated for credit)  
Sociocultural distributions with emphases on social regions, spatial behavior and cultural landscapes. Topics include population, spatial diffusion and processes, race, language, religion, political organization, methods of livelihood, settlement patterns, and the regional distribution of the elements over the earth. Meets Multicultural requirement.

GEO 3471  Geography of World Affairs  
3 sh (may not be repeated for credit)  
Geographic study of world events; environmental influences on events; impact of events on environment; ramifications of events on social, economic, political, physical and psychological worlds. Meets Multicultural requirement.

GEO 3502  Economic Geography  
3 sh (may not be repeated for credit)  
Analysis of patterns, linkages and flows attendant to the production, consumption and distribution of goods and services. Production and consumption are correlated with markets which are analyzed in terms of population needs, desires and spending power.

GEO 4164  Geostatistics  
3 sh (may not be repeated for credit)  
Prerequisite: STA 2023, GIS 4043, GIS 4043L  
Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 5165; graduate students will be assigned additional work.

GEO 4221  Coastal Morphology and Processes  
3 sh (may not be repeated for credit)  
Prerequisite: Either GEO 1200 or GLY 2010, GLY 2010L  
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.

GEO 4251  Advanced Climatology and Climate Change  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 3250  
A survey of Earth's climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO 5256 Advanced Climatology and Climate Change; graduate students will be assigned additional work.

GEO 4280  Basic Hydrology  
4 sh (may not be repeated for credit)  
Prerequisite: GLY 2010, GLY 2010L or GEO 1200, GEO 1200L  
Co-requisite: GEO 4280L  
Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. Material and supply fee will be assessed for corresponding lab.

GEO 4316  Landscape Biogeography  
3 sh (may not be repeated for credit)  
Prerequisite: BOT 2010 or (either GEO 1200, GEO 1200L or GLY 2010, GLY 2010L)  
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 5317; graduate students will be assigned additional work.

GEO 4316L  Landscape Biogeography Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 4316  
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 GEO5317L. Graduate students will be assigned additional work.

GEO 4332  Senior Seminar  
1 sh (may be repeated for up to 2.0 sh of credit)  
Prerequisite: 90 semester hours  
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)  
Prerequisite: 90 semester hours  
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 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 5165  Geostatistics
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 (or equivalent)
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.

GEO 5225  Coastal Morphology and Processes
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200 or GLY 2010, GLY 2010L
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.

GEO 5256  Advanced Climatology and Climate Change
3 sh (may not be repeated for credit)
Prerequisite: Any Introductory Meteorology course
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 4251 (Advance Climatology); graduate students will be assigned additional work.

GEO 5317  Landscape Biogeography
3 sh (may not be repeated for credit)
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 4316; graduate students will be assigned additional work.

GEO 5317L  Landscape Biogeography Lab
1 sh (may not be repeated for credit)
Co-requisite: GEO 5317
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 GEO4316L (Landscape Biogeography 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 Global Agricultural Sustainability.

GEO 5930  Seminar in Environmental Issues
3 sh (may not be repeated for credit)
Prerequisite: Graduate standing
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)
Prerequisite: GEO 6896
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
0-3 sh (may be repeated for up to 99.9 sh of credit)
Directed Study Course.

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.

GEOLOGICAL OCEANOGRAPHY Courses
OCG 4050  Geological Oceanography
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200 and GEO 1200L) or (GLY 2010 and GLY 2010L) or (BSC 2311 and BSC 2311L)
The study of the morphology, formation, and evolution of ocean basins; of the sediments in coastal, shelf, and pelagic environments; and biogeochemical cycling. Includes paleoceanography and the sedimentary history of the ocean basins.

GEOLOGY Courses
GLY 2010  Physical Geology
3 sh (may not be repeated for credit)
Material, structures, surface features of the earth and processes that have produced them. (General Studies Course: NS/LEC).

GLY 2010L  Physical Geology Laboratory
1 sh (may not be repeated for credit)
Lab correlating with GLY 2010. (General Studies Course: NS/LAB).
GLY 3031C Environmental Geology 4 sh (may not be repeated for credit) Prerequisite: GEO 1200, GEO 1200L or GLY 2010, GLY 2010L 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.

GLY 4240 Geochemistry 3 sh (may not be repeated for credit) Prerequisite: (GLY 2010, GLY 2010L or GEO 1200, GEO 1200L) and CHM 2045, CHM 2045L 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: (GLY 2010/GLY 2010L or GEO 1200/GEO 1200L) and CHM 2045/CHM 2045L and (BSC 1005/BSC 1005L or BOT 2010/BOT 2010L or ZOO 1010/ZOO 1010L) 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 5246 Geochemistry 3 sh (may not be repeated for credit) Prerequisite: (GLY 2010/GLY 2010L or GEO 1200/GEO 1200L) and CHM 2046/CHM 2046L Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 4240; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5266 Biogeochemistry 3 sh (may not be repeated for credit) Prerequisite: (GLY 2010/GLY 2010L or GEO 1200/GEO 1200L) and CHM 2046/CHM 2046L and (BSC 1005/BSC 1005L or BOT 2010/BOT 2010L or ZOO 1010/ZOO 1010L) An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 4244; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GERMAN Courses

GER 1120C German I 4 sh (may not be repeated for credit) For students with no knowledge of German or with fewer than two years of high school German. Lays a foundation for speaking, writing, and reading the language. One hour of lab work per week is required.

GER 1121C German II 4 sh (may not be repeated for credit) Prerequisite: GER 1120C Continuation of GER 1120C. One hour of lab work per week is required.

GER 2240 German Intermediate Composition and Conversation 3 sh (may not be repeated for credit) This is an intermediate foreign language course intended for students who have completed German I and II. Students will expand and perfect their ability to speak, read, write and understand German and learn more about German culture.

GERONTOLOGY Courses

GEY 4001 Gerontology 3 sh (may not be repeated for credit) Course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on knowledge learned from the course. Offered concurrently with GEY 5005; graduate students will be assigned additional work. Permission is required.

GEY 5005 Gerontology 3 sh (may not be repeated for credit) This course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on the knowledge learned from this course. Offered concurrently with GEY 4001; graduate students will be assigned additional work.
GRAPHIC DESIGN Courses

GRA 3102C  Graphic Design Studio I
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C, ART 2484C
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: 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 3202C  Typography
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C; ART 2484C
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 4112C  Graphic Design Studio II
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GRA 3202C
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 skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture. This course varies by semester and instructor to cover some of the following depending upon the term: Poster Design and Digital Illustration, Branding and Identity Systems, Data Visualization and Information Design, and Packaging Design.

GRA 4930C  Special Topics in Digital Media Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C
This course focuses on the refinement of student’s problem-solving abilities through the advanced application of the design process. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture.

GRA 4940L  Internship in Graphic Design
1-3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GRA 3202C, ART 3618C, 2.5 GPA overall, 3.0 GPA in Art
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 a report on internship experience, including weekly journals, written reports and an oral presentation to the department advisor. Graded on a Satisfactory/Unsatisfactory basis only. Permission required.

GRA 4950C  Graphic Design Portfolio
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ART 3618C, GRA 3202C, GRA 3102C, GRA 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.

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 2577  Principles of Nutrition
3 sh (may not be repeated for credit)
Explores fundamental principles of nutrition emphasizing the promotion of human growth and health. Provides students with an understanding of nutrients and their roles in the body while examining current issues in food science.

HSC 3032  Foundations in Health Education
3 sh (may not be repeated for credit)
Explores the philosophy and principles that provide the foundations of health education as an academic discipline and as a profession. Emphasis will focus on health education in our society, theoretical basis, settings, ethical issues, current issues, marketing, planning and future outlook in the field.

HSC 3034  Advances in Health Sciences Technology
3 sh (may not be repeated for credit)
Introduces the student to current regional, state, national and international trends and issues in the health sciences. Lectures will cover recent topics in this area followed by class discussion of the topic. In addition, each student will be assigned a series of articles related to the topics that will be covered during the semester in lecture to stimulate and broaden class discussion.

HSC 3406C  Advanced First Aid and Emergency Care
3 sh (may not be repeated for credit)
Study and practice of standard first aid procedures which are essential for survival in emergency and disastrous situations. Cardiopulmonary resuscitation method will be included. Red Cross certification will be available to students who meet current standards.
HSC 3535  Introduction to Medical Terminology  
3 sh (may not be repeated for credit)

This distance learning course is designed to familiarize students with the basics of vocabulary used in the medical and health professions. Students will employ a systematic, word-building approach to master the complex terminology of the medical field. The self-paced approach requires excellent time management skills, computer skills, and commitment by the student. The coursework will be presented through the textbook, with practice exercises and tests for each course unit will be submitted electronically. Working knowledge of how to use personal computers, including knowledge of word processing and Internet searching is required prior to this course.

HSC 3555  Pathophysiology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 1085 & BSC 1086

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. Credit may not be received in both HSC 3555 and HSA 3550.

HSC 4050  Health Sciences Research Seminar  
3 sh (may not be repeated for credit)

Will center on discussions of contemporary research in the health sciences. The instructor will select key papers on a variety of recent advances in pharmaceuticals, surgical techniques and other areas of medical technology for discussion by students. At the beginning each student will be assigned a project which will include a written paper on a specific topic in health sciences research that they will present and defend in class.

HSC 4104  Health Aspects of Stress Management  
3 sh (may not be repeated for credit)

A study of physiological, psychological, and sociological aspects of stress as related to overall health. Anger, fear, and depression and their underlying mechanisms related to the stress response on health and disease will be examined. Emphasis is on identification of stressors, methods of prevention and coping strategies. Group activities and individual assignments provide opportunities for personal analysis.

HSC 4120  Consumer Health Education  
3 sh (may not be repeated for credit)

Enables students to make intelligent decisions about the health care marketplace. Basic information regarding health care products, services and consumer protection will be of central focus.

HSC 4133  Health Aspects of Human Sexuality  
3 sh (may not be repeated for credit)

A study of physical, mental, emotional, social, and psychological phases of human sexuality as they are affected by male and female relationships. Emphasize a holistic perspective on sexuality. Lectures by the instructor and experts from the community will provide an overview of the major issues in sexuality. Assigned readings will provide detailed information. Group activities and individual assignments will provide opportunities for personal analysis and growth with regard to a wide variety of topics.

HSC 4143  Drugs in Society  
3 sh (may not be repeated for credit)

Provides students with knowledge of the use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug use and abuse on personal and community health. Concepts of prevention, education and control will be covered.

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 employing 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.

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 4511  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 5512; graduate students will be assigned additional work.
HSC 4551  Communicable and Degenerative Diseases  
3 sh (may not be repeated for credit)  
Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin, symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 5552; graduate students will be assigned additional work. Junior/Senior status required.

HSC 4572  Nutrition and Health  
3 sh (may not be repeated for credit)  
Prerequisite: HLP 2081 or HSC 2577 or permission from the instructor.  
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.

HSC 4581  Health Promotion and Planning  
3 sh (may not be repeated for credit)  
A comprehensive overview and analysis of theory, models, principles, and practices of health education and promotion planning and implementation. Topics include health promotion and a framework for planning, social assessment and participatory planning, epidemiological assessment, behavioral and environmental assessment, educational and ecological assessment, administration and policy assessment, evaluation and applications in community, occupational, school, and health care settings.

HSC 4633  Current Issues in School-Community Health  
3 sh (may not be repeated for credit)  
A study of contemporary health issues affecting schools and communities. Emphasis will be placed on environment, medical care, lifestyle factors, and communicable diseases.

HSC 4652  Introduction to Clinical Ethics Grand Rounds  
3 sh (may not be repeated for credit)  
An examination of actual clinical cases presented by hospital bioethicists.

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.

HSC 4940  Internship  
1-6 sh (may be repeated for up to 6.0 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.

HSC 5037  Historical Foundations of Health Education  
3 sh (may not be repeated for credit)  
The philosophical, ethical, and theoretical foundations of the professional practice of health education in school, community, worksite and hospital settings, as well as in health promotion consultant activities. Students will be expected to develop their own philosophical, ethical and theoretical approach(es) to the field after becoming familiar with the literature related to the discipline.

HSC 5135  Health Guidance  
3 sh (may not be repeated for credit)  
The role of health educators and other health professionals in providing health guidance to individual clients. Functions of agencies and organizations providing health education and supportive health services. Research and theory related to health communication. Strategies and examples for students to develop skills in health communication.

HSC 5176  Nutrition and Lifestyle Counseling  
3 sh (may not be repeated for credit)  
Prerequisite: HSC 2577 or HLP 2081 or HSC 4572 or permission from the instructor.  
An integrated overview of nutrition science as it relates to health and disease prevention. Course includes the acquisition of lifestyle counseling and interpersonal skills that enhance the helping relationship as a health educator.

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 5512 Health Care Quality and Database Management
3 sh (may not be repeated for credit)
Emphasizes how to develop, deploy, and evaluate new tools to analyze clinical data resources. Special attention is given to improving health care quality and decision-making to address the needs of a clinical practice or administration. Case studies involving the development and assessment of databases for disease management and drug utilization will be covered. Students will learn how to collect, summarize, statistically analyze, present, and interpret data. Students will be trained in the fundamentals of database design and information retrieval as they develop a working tool to address health care quality improvement. Finally, legal and confidentiality, the use of informed consent, and regulatory requirements will be addressed. Intro to Medical Informatics; Working knowledge of statistics; 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. Offered concurrently with HSC 4511 graduate students will be assigned additional work.

HSC 5552 Communicable and Degenerative Diseases
3 sh (may not be repeated for credit)
Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 4551; graduate students are assigned additional work. Upper division or graduate status is required.

HSC 5602 Life, Illness and Death
3 sh (may not be repeated for credit)
An examination of the worldviews of patients and health care providers which influence how both confront illness, suffering, and death. Permission is required.

HSC 5636 Current Issues in Medicine
3 sh (may not be repeated for credit)
An examination of issues that arise in conceptualizing the aims and practices of medicine. Some focus on the health care practitioner's experience with difficult decisions regarding patient care and self-care. Permission is required.

HSC 5655 Theoretical Foundations of Health Care Ethics
3 sh (may not be repeated for credit)
Illuminating major ethical theories and their relation to health care ethics. The application and visibility of these theoretical models will be tested with respect to training and professional practice in health care. Permission is required.

HSC 5656 Clinical Ethics Grand Rounds
3 sh (may not be repeated for credit)
Students will participate in grand rounds with specified health care professionals. In response to various cases presented at ethics grand rounds, students will participate in mock round table bioethics consultations and committees. A clinical ethics case study and permission is required.

HSC 5716 Planning, Implementing, and Evaluating of Health Programs
3 sh (may not be repeated for credit)
Prerequisite: Graduate standing or permission from Health Education faculty for non-graduate students.

This course is designed to prepare the graduate student with the theoretical and practical perspectives of community health program planning, implementation, and evaluation. Emphasis will be placed on the major components of any planning model; needs assessment; priority setting; problem statement; program goals and objectives; program implementation; program evaluation; and budgeting. Additional topics include: ethical issues related to community health program planning and evaluation; influence of diversity on interventions and grant writing. Graduate standing or permission from Health Education faculty for non-graduate students is required.

HSC 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.

HSC 6206 Community Health Delivery Systems
3 sh (may not be repeated for credit)
This course explores health care delivery in the United States. Examines health care systems in other countries along with covering topics including American beliefs and values related to health care delivery, evolution of health services in the United States, health service professions, influence of medical technology, and the financing of health services.

HSC 6512 Health Care Quality and Database Management
3 sh (may not be repeated for credit)
An examination of the worldviews of patients and health care providers which influence how both confront illness, suffering, and death. Permission is required.

HSC 6528 Strategies for Prevention of Infectious Disease
3 sh (may not be repeated for credit)
A comprehensive study of the tools for the control of infectious diseases and the application of these tools in public health programs to achieve an epidemiologic impact on disease reduction, elimination or eradication.

HSC 6587 Health Education Program Planning and Evaluation
3 sh (may not be repeated for credit)
This course is designed to prepare the graduate student with the theoretical and practical perspectives of health program planning and evaluation. Emphasis will be placed on the major components of program planning models; needs assessment; priority setting; program goals and objectives; program implementation and evaluation; and budgeting. Additional topics include: ethical issues related to health program planning; multicultural literacy; and grant writing. Graduate standing or permission from Health Education faculty for non-graduate students is required.

HSC 6666 Health Education and Interactive Technology
3 sh (may not be repeated for credit)
Course offers health educators and health care administrations various perspectives relating to the development and implementation of effective interactive computing technology. Program development and interventions are aimed at improving various health-related outcomes such as promoting an individual's involvement in their personal health care, quality of life, adherence to health promoting strategies, and disease management. Above issues are also addressed within a community setting.
HSC 6667  Social Marketing in Health Education
3 sh (may not be repeated for credit)
Provides students with an understanding of social marketing
definitions, theory, and techniques. Social marketing systematically
applies consumer marketing tools to achieve a consumer oriented
approach to health promotion programming. Students will learn how
to segment, reach, and influence target audiences while examining
issues such as product planning, pricing, communication, distribution,
and market research. As part of this course, students will apply
marketing principles to design program messages and materials for
behavior change initiatives.

HSC 6707  Current Issues in Health Administration
3 sh (may not be repeated for credit)
Students will examine current issues in the dynamic field of health care
and the implications for health care administrators and other health
professionals. Topics include outpatient services and primary care;
hospital facilities; managed care; long term care; health care concerns
in vulnerable populations; cost, access and quality of health care;
health care policy; and future of health services delivery in the US.

HEALTH SERVICES ADMINISTRATION Courses

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  Introduction to Medical Informatics
3 sh (may not be repeated for credit)
Provides an overview of the multifaceted, interdisciplinary nature
of medical informatics. Fundamentals of computer applications
in medicine, health data classification and coding, and legal and
ethical issues (including documentation, security, and regulatory
requirements). Additional avenues for further credentialing will be
covered. Working knowledge of medical terminology and acceptance
into the Medical Informatics Certificate Program also included. Offered
concurrently with HSA 5197; graduate students will be assigned
additional work.

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 on billing, collections, HIPAA, and scheduling
in a health care practice. Offered concurrently with HSA 5198;
graduate students will be assigned additional work.

HSA 4430  Health Economics
3 sh (may not be repeated for credit)
Provides instruction in economic theories, tools and concepts and their
application to current health care issues. Offered concurrently with
HSA 5436; graduate students will be assigned additional work.

HSA 4431  Business Analysis and Decision Making in Health Care
3 sh (may not be repeated for credit)
Analysis of health policy, issues and cases using economic theories,
tools, and concepts. Offered concurrently with HSA 5438; graduate
students will be assigned additional work.

HSA 5115  Health Care Policy and Administration
3 sh (may not be repeated for credit)
Management principles, processes and techniques as applied to
hospitals and other health-related institutions. Offered concurrently
with HSA 4110; graduate students will be assigned additional work.

HSA 5161  Marketing for Nursing Administrators
3 sh (may not be repeated for credit)
Today, medicine is a mega business. This course explores best
practices in market research, planning and positioning, advertising
and branding, public relations and political advocacy in medicine to
promote an understanding of the business of healthcare among nurse
practitioners and other healthcare workers.

HSA 5163  Marketing for Nurse Administrators
3 sh (may not be repeated for credit)
Today, medicine is a mega-business. This course explores best
practices in market research, planning and positioning, advertising
and branding, public relations and political advocacy in medicine to
promote an understanding of the business of healthcare among nurse
practitioners and other healthcare workers. Credit may not be received
in both HSA 5163 and HSA 5161. Permission is required.

HSA 5197  Introduction to Medical Informatics
3 sh (may not be repeated for credit)
Provides an overview of the multifaceted, interdisciplinary nature
of medical informatics. Fundamentals of computer applications
in medicine, health data classification and coding, and legal and
ethical issues (including documentation, security, and regulatory
requirements). Additional avenues for further credentialing will be
covered. Working knowledge of medical terminology and acceptance
into the Medical Informatics Certificate Program also included. Training
in a health care-related field at the Associate's or Bachelor's level is
required. Offered concurrently with HSA 4192; 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 4192; graduate
students will be assigned additional work.
HSA 5436  Health Economics
3 sh (may not be repeated for credit)
Prerequisite: GEB 5871
Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 4430; graduate students will be assigned additional work.

HSA 5438  Business Analysis and Decision Making in Health Care
3 sh (may not be repeated for credit)
Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 4431; graduate students will be assigned additional work.

HSA 6342  Human Resources in Health Care
3 sh (may not be repeated for credit)
Introduces graduate students to the management of human resources specifically within health care organizations. The course focuses on skills required to become an effective manager and gain knowledge of fundamental human resource management topics: strategic HR management; workforce planning; legal environment of HR management; workforce diversity; job analysis and job design; recruitment, selection, and retention; organizational development and training; compensation and benefits; health safety and preparedness; and employee and labor-management relations.

HSA 6521  Critical Analysis of Health
3 sh (may not be repeated for credit)
Analysis of research being conducted on causes of illness and death in the United States and other countries.

HEALTH, LEISURE, AND PHYSICAL EDUCATION Courses

HLP 2081  Health, Nutrition and Physical Fitness
3 sh (may not be repeated for credit)
Principles of exercise and nutrition and their roles in maintenance of good health. Students will be given the opportunity to develop their individual aerobic fitness program. An introductory level course.

HLP 3300  Organization and Administration of Professional Programs
3 sh (may not be repeated for credit)
Analysis of leadership principles related to study of man and human performance related to health, leisure and sports activities.

HLP 3510  Measurement and Evaluation in Health, Leisure, and Sports
3 sh (may not be repeated for credit)
Application of measurement and evaluation principles to study of man and human performance related to health, leisure and sports activities. Instructional designs of physical fitness, sport skills and knowledge testing are examined.

HLP 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 4922  Field Experience
1-3 sh (may be repeated for up to 3.0 sh of 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 be repeated for up to 6.0 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 4941C  Senior Capstone Experience in Exercise Science
1-6 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: HLP 4922
As a capstone experience for Exercise Science students, this course will provide opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in an exercise science related field and by faculty academic support. Graded on a satisfactory/unsatisfactory basis only. Departmental permission will be required.

HLP 4945  Research Seminar
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 6340  Internship
1-6 sh (may be repeated for up to 6.0 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 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 6550  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 6922  Field Experience
1-3 sh (may be repeated for up to 6.0 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 6.0 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. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

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 6922  Field Experience
1-3 sh (may be repeated for up to 6.0 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 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 6940  Internship
3-6 sh (may be repeated for up to 6.0 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. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

HLP 6971  Thesis
1-6 sh (may be repeated for up to 6.0 sh of credit)
Graded on a satisfactory/unsatisfactory basis only. Permission is required.
HOSPITALITY MANAGEMENT Courses

HFT 2000  Introduction to Hospitality, Recreation, and Resort Management
3 sh (may not be repeated for credit)
Introduction to the unique characteristics of service industries, and the concept of service quality. The many segments of the Hospitality, Recreation, and Resort fields are reviewed, along with related employment opportunities.

HFT 3221  Human Resources in Hospitality, Recreation, and Resorts
3 sh (may not be repeated for credit)
Covers basics of human resource administration while focusing on the importance of human resource management within service industries; customer satisfaction is dependent upon employee satisfaction. Emphasis placed upon motivation, training, and strategies to combat the high turnover that characterizes hospitality fields.

HFT 3271  Spa Management
3 sh (may not be repeated for credit)
Spa development is traced from Roman roots to the types of spas currently in existence: day spas, destination spas, and resort spas. Major treatments/services are reviewed: facial therapies, massage therapies, water therapies, face and body services, salon services, exercise, personal training, etc. In addition to operations, the functional areas of marketing, human resources, and financial management are discussed within the context of spas.

HFT 3414  Managing Front Office Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Complete approach to the operation of resort properties from a department manager's perspective. Beginning with historical development, details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of resort business. The future and the impact of the condominium concept, time-sharing, technological change, and the increased cost of energy and transportation, are also discussed.

HFT 3814C  Management of Food and Beverage Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Co-requisite: HFT 3856C
Students will gain an understanding of the management process in food and beverage operations. All aspects of food and beverage operations are covered including organization, marketing, menus, costs and pricing, production, service, safety, and finances. This class is designed for future managers who will have to help out in the kitchen and will be responsible for cost control. This is not for students who intend to be Chefs.

HFT 3856C  Managing Service in Food and Beverage Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Co-requisite: HFT 3814C
Students will learn practical skills and knowledge for effective management of food service operations. Basic service principles will be emphasized including the importance of meeting and, whenever possible, exceeding the expectations of guests.

HFT 3932  The Disney Semester: Experiential Learning in Hospitality, Recreation, and Resort Management
6-12 sh (may be repeated for up to 12.0 sh of credit)
For students who have been accepted into the Walt Disney World College Program. Combines experiential learning through a minimum of 600 work hours (6 credit hours) with optional classroom education (maximum of 2 classes-3 credit hours/class) at Walt Disney World in Orlando, Florida. Permission is required.

HFT 3941  Field Study in Hospitality, Recreation and Resort Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
300 work hours. Permission is required.

HFT 4274  Condominium and Vacation Interval Ownership
3 sh (may not be repeated for credit)
A comprehensive study of timeshare and vacation ownership of condominium properties. Legal structures, projects budgeting, marketing, sales and property management. Students are introduced to the fastest growing segment of the lodging industry. Differences between traditional and non-traditional lodging operations are examined.

HFT 4426  Financial Decision-Making in Hospitality, Recreation and Resorts
3 sh (may not be repeated for credit)
Prerequisite: ACG 3082, HFT 2000
Specialized accounting for hotel revenue and expenses; accounting for inventory, property, and equipment; hospitality payroll accounting; hotel departmental financial statements; the income statement, balance sheet, and statement of cash flows; the analysis of financial statements; interim and annual reports; budgeting expenses; forecasting sales; budgetary reporting analysis; and financial decision-making.

HFT 4753  Convention Facilities and Meetings Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Convention facilities, convention and visitors bureaus, sponsors, host venues, stakeholders, tradeshow and meeting management are examined. Legal issues and trends are studied. The economic impact of meetings and convention business upon destinations is studied.
HFT 4940  Internship in Hospitality, Recreation and Resort Management  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 3941  
Capstone experience working in a hospitality, recreation or resort-related organization whereby students put theory into practice through active participation. Students are supervised by a management-level agency employee as well as by a faculty advisor. A total of 400 hours must be worked. Senior standing and permission is required.

HFT 4945C  Senior Capstone Experience in Hospitality, Recreation, and Resort Management  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 3941  
This will be a capstone experience for HRRM students whereby students put theory into practice through active participation and classroom participation. Students are supervised by management-level agency employee and by faculty academic support. A total of 400 hours will of practicum experience will be completed in addition to classroom instruction. Senior standing and permission will be required.

HUMANITIES Courses
HUM 4911  Interdisciplinary Humanities Capstone  
3 sh (may not be repeated for credit)  
Designed so the student may integrate and reflect on his or her undergraduate program of study. Internship or research project is closely coordinated with the student's advisor. Purpose is to provide connection, coherence, and closure to one's major course of study. Permission is required.

HUM 6910  Master's Essay  
1-3 sh (may be repeated for up to 3.0 sh of credit)  
Completion of a comprehensive research essay which attempts to integrate the three fields of study. A committee of faculty, one from each discipline, evaluates on a satisfactory/unsatisfactory basis. Permission is required.

HUM 6971  Thesis  
1-8 sh (may be repeated for up to 8.0 sh of credit)  
Graded on satisfactory/unsatisfactory basis only. Permission is required.

INDUSTRIAL AND APPLIED PSYCHOLOGY 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 MAN 3240. MAN 3025 or equivalent is suggested prior to taking this course, but not required.

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 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 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)
Prerequisite: MAN 3025 or PSY 2012 or SOP 3004
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 6944  Practicum in Industrial Psychology
1-3 sh (may be repeated for up to 6.0 sh of credit)
Primarily for education in traditional industrial areas. Involves placement in an industrial setting. 6-8 hours per week of field experience for every hour of credit. Must be an industrial-organizational program student and permission is required.

INDUSTRIAL ENGINEERING Courses
EIN 4354  Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 with a C grade or better
Basic principles and applications of economic decision making between alternatives encountered in engineering systems projects. The analysis will include methodologies of economics and finance in addition to engineering fundamentals. Upper division classification in engineering is required.

INFORMATION SYSTEMS MANAGEMENT Courses
ISM 3011  e-Business Systems Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Use and application of information system technology in the business environment, with emphasis on the fundamental e-Business models, technology concepts and systems used to enable and conduct electronic business. Concepts include the components of an I.S., the systems development process, the functions of the various types of communication networks, hardware, and software, including practical, hands-on projects designed to enhance e-Business analytical skills. Completion of 45 semester hours of college course work is required prior to this course.

ISM 3235  Business Development Environments
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Explores the concepts involved in the development of event-driven business applications. Concepts covered include GUI application design and development, object-oriented systems linking business objects, and client-server environments. Uses Visual Basic to demonstrate the concepts. Prior programming experience preferred but not required.

ISM 3323  Information Security Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Information Security in the modern organization is both a management and a technology issue. Course recognizes that technology alone cannot address all the security issues; prepares students for management and control of security of information systems in organizations; prepares students to make informed decisions regarding administration of information security infrastructure.

ISM 4113  Business Systems Design
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 and ISM 3235
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 4300  Systems Planning, Design and Control
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Techniques for the planning, design and control of information systems. Stresses link between strategic planning of the organization and strategic planning of the management information system.

ISM 4400  Decision Support and Expert Systems
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Current tools and techniques available to support managerial decision-making. Analysis and practice in the building and use of decision support systems and expert/knowledge-based systems.

ISM 4481  Knowledge Management for e-Business
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 and ISM 3235
Explores the complexities of knowledge management in the e-business era. Uses software tools to analyze data and create business intelligence.
ISM 4483  e-Business Infrastructure Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 and ISM 3235
Explores the technology and management concepts, issues and
decisions related to the infrastructure required to support end-to-end,
partner-to-partner electronic business processes.

ISM 4943  Internship in Management Information Systems
1-3 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: Senior status, 2.5 overall GPA, 3.0 GPA in MIS
On as "as available" basis, MIS majors may request an internship
by submitting written proposals to their advisor. Proposals must be
approved by the advisor, chairperson, and sponsor. Summer semester
internships are offered only during the A term. Senior status, 2.5 GPA
overall, and a 3.0 GPA in MIS is required. All internships include report
on internship experience, including weekly journals, written reports,
and an oral presentation to department chairperson. Graded on a
Satisfactory/ Unsatisfactory basis only. Permission is required.

ISM 6026  Management of Information Systems and Technology
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 or GEB 5870
Provides the M.B.A. student with a contemporary managerial
perspective on the effective use of information systems in global
organizations through case analyses and class discussions. Topics
include the business value of information systems, integration of
information systems with enterprise strategy, the use of information
systems to achieve organizational redesign for strategic advantage,
and applying the processes of leadership and management to
information systems planning and implementation. Contains a portfolio
project.

INTERDISCIPLINARY HONORS Courses

IDH 1040  Honors Core 1
3 sh (may not be repeated for credit)
Honors Core 1 and Honors Core 2 establish the foundation of the
academic experience unique to the Honors program at the University
of West Florida. Honors Core 1 focuses on the formulation of the
self as it appears in our central literary heritage and examines the
overarching guiding questions that have long beset humanity as
they appear in core Western texts. Honors Core 1 is designated as a
General Studies course. The General Studies curriculum at the
University of West Florida is designed to provide a cohesive program
of study that promotes the development of a broadly educated person
and provides the knowledge and skills needed to succeed in university
studies. (Gordon Rule Course: WRTG and General Studies Course: HUM/LIT).

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. Honors Core 2 allows students to explore
the philosophical underpinnings of community, investigate the
distinctive features of Western and Eastern notions of communal
life, and address the various feature of modern society that threaten
community. Students will consider ways in which citizens can benefit
from engaging their communities of interest, how they can foster a
more meaningful civic life, and ultimately provide leadership to build a
better future. (General Studies Course: SS/SOC) Meets Multicultural
Requirement.

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. 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.

IDH 4030  Honors Seminar: Topic I
3 sh (may be repeated for up to 12.0 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 12.0 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 12.0 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 12.0 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 12.0 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 12.0 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 12.0 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 12.0 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 4043  Honors Seminar: Topic IX
3 sh (may be repeated for up to 12.0 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 4044  Honors Seminar: Topic X
3 sh (may be repeated for up to 12.0 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 4045  Honors Seminar: Topic XI
3 sh (may be repeated for up to 12.0 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 4046  Honors Seminar: Topic XII
3 sh (may be repeated for up to 12.0 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 12.0 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 12.0 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 4915  Honors Research Project
1-3 sh (may be repeated for up to 6.0 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 6.0 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.

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)
Prerequisite: ISC 5517
Co-requisite: ISC 5517
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.

INTERNATIONAL RELATIONS Courses

INR 2002  International Politics
3 sh (may not be repeated for credit)
Sources and processes of conflict and cooperation among nation-states. (General Studies Course: SS/SOC) Meets Multicultural requirement.

INR 3006  Conflict, Violence and Peace
3 sh (may not be repeated for credit)
Conflict and violence which characterizes domestic politics of many nations. Focus on rebellions, revolutions, and coups. Gandhi’s model of peaceful resolution of conflict. Meets Multicultural requirement.

INR 3073  Issues in International Politics
3 sh (may not be repeated for credit)
Current controversies in international affairs, e.g., terrorism, proliferation of weapons of mass destruction, collective security and peacekeeping, depletion of fisheries and other ocean resources, refugee flows and mass migrations, and globalization will be researched, discussed, and reported on.

INR 3102  American Foreign Policy
3 sh (may not be repeated for credit)
Factors shaping American Foreign Policy in contemporary contexts; emphasis will be placed on the administration of American foreign policy and diplomacy.

INR 3224  International Relations of East Asia
3 sh (may not be repeated for credit)
This course explores security and military issues in East Asia - a region containing four "great powers" (the United States, China, Japan and Russia) and three medium-level powers (the two Koreas and Taiwan) - from the beginning of the cold war up to the current years.

INR 3225  Vietnam and American Politics
3 sh (may not be repeated for credit)
The Vietnam War and its impact upon the political experience and social values of the United States.

INR 3233  USA-China Relations
3 sh (may not be repeated for credit)
Contemporary post-cold war world politics is witnessing radical changes in security environments and relative power distributions among major powers at the global level. The change is more remarkable in Northeast Asia than in other regions in the world as the rise of China both as economic and military power relative to the United States poses unique challenges to future international security. The fast-rising Chinese power vis-a-vis the United States makes the latter reevaluate its role in East Asia, from a hegemonic power to the balancer. This course is designed to provide an overview of their foreign policy dynamics between the United States and the People’s Republic of China from the beginning of the 20th century up to current years. The class discussion is divided into five major parts. First, it begins with a brief overview of different theoretical frameworks - Realism, Liberalism, and Constructivism - that explains inter-state interactions in terms of political, military/security, and other foreign policy issue areas. Next, the class surveys the history of US-China relations, dating back to the 1920s-30s when China was struggling for modern state-building. The third part of the course looks into domestic political contexts of Chinese foreign policy-making in the post-cold war setting. The fourth part discusses important security/military and economic issues revolving around US-China interactions: China’s military modernization program, North Korea’s nuclear development, Taiwan’s independence movement, possibility of Japan’s remilitarization, and US-China trade disputes. The course concludes with a discussion over the future of American grand strategy in East Asia.
INR 3503 Model United Nations
3 sh (may not be repeated for credit)
Students will learn the theory behind the founding, the history, the organization, and the parliamentary procedures of the United Nations. During in-class simulations, they learn to represent the University of West Florida at local or regional Model United Nations conferences, where they would be required to be "in-character," representing the views of their assigned country rather than their own. Requires extensive preparation and research.

INR 4134 Homeland Security
3 sh (may not be repeated for credit)
Analysis of problems and prospects of establishing aggressive intelligence and counterintelligence, as well as emergency management capabilities in a modern threat environment. Offered concurrently with INR 5138; 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 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 5334; graduate students will be assigned additional work.

INR 4364 Intelligence
3 sh (may not be repeated for credit)
Covers the origins, mission, functions, and responsibilities of the US security agencies as well as the relationship of the intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 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 5138 Homeland Security
3 sh (may not be repeated for credit)
Analysis of problems and prospects of establishing aggressive intelligence and counterintelligence, as well as emergency management capabilities in a modern threat environment. Offered concurrently with INR 4134; 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 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.

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 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.
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 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.

JOURNALISM Courses

JOU 2100  Newspaper Reporting
3 sh (may not be repeated for credit)
Prerequisite: JOU 2200
Principles and procedures in gathering, reporting and writing news and feature articles. (Gordon Rule Course: Wrtg).

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 3700  Issues in Journalism
3 sh (may be repeated for up to 90.0 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 3940  Practicum: Voyager
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: JOU 2100
Experience in preparing news, opinion and feature material for publication in the student newspaper. Permission is required.

JOU 4101  Advanced Newspaper Reporting
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Advanced principles and procedures in gathering, reporting and writing news, features and opinion articles.

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)
Prerequisite: JOU 2100
Principles and practices in newspaper layout and design. Credit may not be received in both JOU 4213 and JOU 4211.

JOU 4300  Feature Writing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Advanced principles and procedures in gathering, reporting and writing news, features and opinion articles.

JOU 4302  Editorial Writing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Principles of and practice in the art of writing persuasively. Focuses on newspaper editorials and commentary.

JOU 4306  Writing Critical Reviews
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Devoted to writing reviews of books, film, art, and music. (Gordon Rule Course: Wrtg).

JOU 4308  Magazine Writing
3 sh (may not be repeated for credit)
Prerequisite: JOU 4308 or JOU 2100 or JOU 4213
Principles and practices in the art of writing for magazines. Focuses on in-depth reporting and refined focus for the magazine market. (Gordon Rule Course: Wrtg).

JOU 4445  Magazine Publishing
3 sh (may not be repeated for credit)
Prerequisite: JOU 4308 or JOU 2100 or JOU 4213
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.
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.

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.

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

CJJ 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.

LANGUAGE ARTS AND ENGLISH EDUCATION Courses
LAE 3314  Literacy for the Emergent Learner
3 sh (may not be repeated for credit)
Development of pre-service teacher skills and understandings needed for conducting a language arts program at the elementary school level.

LAE 3324  Teaching Language Arts in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Theory/methodology for teaching language arts/literature at the middle and secondary school level; emphasis on teaching strategies for integrating classroom listening, speaking, reading, and writing activities; includes observation/participation in middle and secondary school settings.

LAE 4335  Special Methods in English
4 sh (may not be repeated for credit)
Practical application of theory and methodology to teaching English in secondary schools. Involves a six-week classroom practicum, a twelve-week Writing Lab practicum, unit planning, curriculum building, a teaching presentation, a teaching portfolio, and a research project.

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.

LATIN AMERICAN HISTORY Courses
LAH 3100  Colonial and Revolutionary Latin America
3 sh (may not be repeated for credit)
Pre-Columbian cultures and interactions of Spanish and English colonial administrative and economic systems; economic, social, intellectual and political efforts of revolution against Spain. Meets Multicultural requirement.

LAH 3200  Latin America since Independence
3 sh (may not be repeated for credit)
Political, economic and social problems of early nationhood; analysis of revolution, development models, role of the military and international relations. Meets Multicultural requirement.

LAW AND PROCESS Courses
CJL 3510  Judicial Process
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.
**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 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.

CJE 4110  Police in a Free Society  
3 sh (may not be repeated for credit)

Analysis of the role of and challenges to policing in a democratic society. Examination of contemporary and historical influences on police policy, personnel, and organization. Discussion of police function within society.

CJE 4161  Crime and Film  
3 sh (may not be repeated for credit)

Films capture facts and the emotional truth likely to have lasting importance in the way criminal justice is perceived and carried out today. They show complexities of the issues and raise questions regarding characters’ behavior, the criminal justice system and crime, law enforcement, courts, and corrections. Films are chosen in part because of their commercial success and impact on American pop-culture and may change each time the course is offered.

CJE 4163  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.

**LEISURE Courses**

LEI 3140  Leisure and Society  
3 sh (may not be repeated for credit)

Historical and philosophical foundations of leisure. Examinations of current trends, problems and issues affecting leisure in the United States.

LEI 3301  Travel and Tourism  
3 sh (may not be repeated for credit)

Cross-disciplinary examination of the many facets of tourism. The social science perspective provides students with the kind of practical knowledge that can effectively be applied to the hospitality industry. Also provides advanced information that can serve as a bridge to further analysis or study. Examples of local issues and trends important in the tourism industry.

LEI 4300  Strategic Leadership in Hospitality, Recreation, and Resorts  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 2000, MAN 3025

Analysis of hospitality, recreation, and resort organizations dealing with strategic planning, leadership, management, budgeting, records and reports, risk management, staff organization, and coordination of resources.

LEI 4321  Sport, Adventure and Ecotourism  
3 sh (may not be repeated for credit)

Discussion of the concepts, theories and issues relevant to the development of tourism, with an emphasis on sport, adventure and nature based tourism. Examination of the challenges and practices associated with the planning and development of tourism, marketing strategies, funding, government involvement, financing of the infrastructure, event organization, contracts, public relation strategies and career opportunities. Introduction and overview of tourism “niches” including festivals, special events, urban, rural, cultural, peace and educational tourism. Upper level status is required.

LEI 4332  Community Tourism Development  
3 sh (may not be repeated for credit)  
Prerequisite: LEI 3301

Examines the relationship between tourism development and host communities. Students study the positive and negative economic, social, environmental and political implications of tourism development. The role of natural and man-made attractions, theme parks, convention and sports facilities as catalysts to tourism development. Issues of community participation in tourism planning and managing the tourism/community relationships. Upper level status is required.

LEI 4350  Outdoor Leisure  
3 sh (may not be repeated for credit)

Survey of issues affecting outdoor leisure in America from a conservation/environmental perspective; and the effective communication of outdoor leisure values. Analysis of leadership skills associated with outdoor leisure activities.

LEI 4400  Programming and Special Events  
3 sh (may not be repeated for credit)  
Prerequisite: LEI 3140

Principles of leisure program development and study of program areas, activities, and special events. Analysis of the methods and techniques of program/event design, organization, implementation, and evaluation.
LEI 4602 Hospitality, Recreation and Design 3 sh (may not be repeated for credit)
Examination of the fundamental concepts, the specific principles, and the process of planning and designing hospitality, recreation and design facilities, including visitor attractions. Students work individually and in teams to design facilities that fulfill travel/recreation expectations, operate graciously in the community, and function efficiently to realize profit. Upper level status is required.

LINGUISTICS Courses
LIN 2670 Practical Grammar and Usage 3 sh (may not be repeated for credit)
Review of the basic principles of writing: grammar, usage, diction, syntax and mechanics, emphasizing usage that is "incorrect," "wrong," "substandard," and "inappropriate.".
LIN 3742 Modern Grammar and Usage 3 sh (may not be repeated for credit)
Grammar of modern English, including traditional; concentration on structural, generative and transformational approaches. Intended for English majors, required of those preparing for careers in secondary education.

LITERATURE Courses
LIT 1122 Great Books I 3 sh (may not be repeated for credit)
Reading/discussion of major literary texts that have shaped Western culture and civilization. (Gordon Rule Course: WRTG and General Studies Course: HUM/LIT).
LIT 2030 Introduction to Poetry 3 sh (may not be repeated for credit)
Elements of poetry, terminology of poetics and the poetic process. Writing of short analytical papers. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/LIT).
LIT 2040 Introduction to Drama 3 sh (may not be repeated for credit)
This course is an introductory survey of drama as literature and performance medium. Through critical reading and analysis of representative texts, beginning with plays from ancient Greece and continuing with play from various cultures throughout history, students will have an opportunity to experience drama as an aesthetic experience, historical phenomenon, and forum for the expression of cultural and intellectual issues. (Gordon Rule Course: Wrtg) (General Studies Course: HUM/LIT).
LIT 2100 Introduction to Literature 3 sh (may not be repeated for credit)
Literature from various nations and historical periods chosen to reflect the evolution of the major genres of the Western literary tradition. Guides the student in defining the features which distinguish drama, fiction and poetry. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/LIT) Meets Multicultural requirement.
LIT 2013 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 3084 Modern Prose Fiction 3 sh (may not be repeated for credit)
Selected prose fiction of 20th century and related criticism.
LIT 3191 World Literature 3 sh (may not be repeated for credit)
Covers a range of topics focusing on non-U.S. literatures. Texts vary each semester according to interest and expertise of the instructor.
LIT 3233 Postcolonial Literature 3 sh (may not be repeated for credit)
Examines world literature produced in the context of colonialism and subsequent movements for independence. Links the study of literature to the political, psychological and cultural effects of imperialism and globalization. Specific topics vary according to faculty expertise and research interests.
LIT 3463 Literature and Visual Studies 3 sh (may not be repeated for credit)
Examines literature in the context of film, the visual arts, and emerging new media. Emphasis on twentieth century and contemporary literary and aesthetic movements.
LIT 4013 The Novel 3 sh (may not be repeated for credit)
The novel as a genre; exploration of the techniques of narrative, characterization, point of view, voice, reflexivity and others. May include texts from diverse national origins.
LIT 4385 Feminist Theory 3 sh (may not be repeated for credit)
This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year.
LIT 5018 Topics in Fiction 3 sh (may be repeated for up to 12.0 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 12.0 sh of credit)
Special topics in poetry.
LIT 5047 Topics in Drama 3 sh (may be repeated for up to 12.0 sh of credit)
Special topics in drama. Topics change each term. See department or instructor for specific topic.
LIT 5105 Topics in World Literature 3 sh (may be repeated for up to 12.0 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.
MANAGEMENT Courses

MAN 3025   Management Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester 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 semester 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 for INP 3313.
MAN 3301   Human Resources Management
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester 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: MAN 3025, MAC 2233
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.
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, ECO 2023, 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 3949   Cooperative Education
1-2 sh (may be repeated for up to 4.0 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.
MAN 4102   Management of Diversity
3 sh (may not be repeated for credit)
Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 5116; graduate students will be assigned additional work. Meets Multicultural requirement.
MAN 4330   Compensation and Benefits
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301
Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization’s strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 5331 graduate students will be assigned additional work.
MAN 4350   Staffing, Training and Development
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301
Permission of director of Cooperative Education is required.
MAN 5116; graduate students will be assigned additional work. Meets Multicultural requirement.
MAN 5331   Graduate Management
1-2 sh (may be repeated for up to 4.0 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 5351   Cooperative Education
1-2 sh (may be repeated for up to 4.0 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 5351   Cooperative Education
1-2 sh (may be repeated for up to 4.0 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 4441 Business Negotiation  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 60 semester 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 4720 Policy Analysis and Formulation  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403, MAN 3025, MAN 3504, MAR 3023

Aggregate planning and development of overall policy for organizations. Emphasizes the system interrelationship of the functional areas of enterprise from the viewpoint of top executives. Senior status and permission is required.

MAN 4750 The Future: Projecting, Planning and Managing  
3 sh (may not be repeated for credit)  
Roles that individuals and organizations have in managing the future. Senior status is required; business majors only.

MAN 4801 Business Plan Development for New Ventures  
3 sh (may not be repeated for credit)  
Prerequisite: BUL 3130, FIN 3403, MAN 3025, 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 4940 Internship in Management  
1-6 sh (may be repeated for up to 6.0 sh of credit)  
On an "as available" basis, management majors may request an internship in management by submitting written proposals to faculty advisors. Proposals must be approved by advisor, chairperson and sponsor. Students must have a 2.5 GPA overall and a 3.0 GPA in management to be eligible for internships. All internships include seminar on internship experience, including written reports. Graded satisfactory/unsatisfactory basis only. Senior status required. Permission is required.

MAN 5116 Management of Diversity  
3 sh (may not be repeated for credit)  
Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles are provided. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse 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.

MAN 5311 Compensation and Benefits  
3 sh (may not be repeated for credit)  
Prerequisite: Graduate standing  
Co-requisite: MAN 4330

Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization’s strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 4330; graduate students will be assigned additional work.

MAN 5351 Staffing, Training and Development  
3 sh (may not be repeated for credit)  
Prerequisite: Graduate standing  
Co-requisite: MAN 4350

Employees are commonly recognized as an organization’s most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines the best practices in staffing, training and development so that students may learn how to establish and effectively manage both staffing systems and training and development programs. Offered concurrently with MAN 4350; graduate students will be assigned additional work.

MAN 5446 Business Negotiation  
3 sh (may not be repeated for credit)  
Prerequisite: Graduate standing  
Co-requisite: MAN 4350

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 4441; graduate students will be assigned additional work.

MAN 5806C Small Business Management Consulting  
3 sh (may not be repeated for credit)  
Practicum in providing management assistance to small businesses in area. Usually students work in pairs and provide assistance to two business firms. Weekly meetings, teaching in consulting and final written report on each firm constitute principal elements. Senior or graduate status, 3.0 GPA and permission are required.

MAN 6156 Management and Organizational Behavior  
3 sh (may not be repeated for credit)  
Prerequisite: MAN 5116

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 6285  Organizational Change and Development
3 sh (may not be repeated for credit)
Prerequisite: MAN 6156
Organizational development: change agency, role of self in O.D.,
change theory, feedback methodology, relationship building, team
building and quality. Lab learning methodology. Expanded emphasis
on field work and application can follow as MAN 6943. May not be
taken for credit by students having credit for SOP 6668.

MAN 6511  Operations Management Problems
3 sh (may not be repeated for credit)
Prerequisite: QMB 6305
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)
Prerequisite: FIN 6406, MAR 6815, ECP 6705
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.

MARKETING Courses

MAR 3023  Marketing Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester hours of college coursework
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 3503  Consumer Behavior
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
The study of people as customers of business - how they think and
feel when making purchase choices and how they behave in the
marketplace. Draws from theory in marketing, social psychology,
anthropology, economics, and other social sciences to describe how
customers respond to marketing strategies. Emphasis on how to use
this in-depth understanding of the market to create winning marketing
and business strategy.

MAR 3714  Sports Markets
3 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023, or ECO 3003, MAR 3023.
Systematic study of the spectator sports industry. The role and
importance of the commercial sector is a particular emphasis. Focus
on the structure and characteristics of sports markets and how to
develop them with sports marketing.

MAR 3860  Customer Relationship Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
Understanding the needs, desires and behavior of customers often
determines which company will survive. Customer Relationship
Management (CRM) is doing business through one-to-one
relationships using new technological advances created by the
information revolution. Focuses on customer development and
retention, particularly for the firm’s best customers, with emphasis on
the management of customer relationships.

MAR 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 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 1-6 hours per week must be done at the
field site per semester hour of credit. Permission is required.
MAR 3949  Cooperative Education
1-2 sh (may be repeated for up to 4.0 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.

MAR 4156  Seminar in International Marketing
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023, FIN 3403, GEB 4361.
Emphasis on the emergence of a global marketplace and significant new challenges facing business management in a competitive and rapidly changing international environment. Stresses the problems and challenges that differences in cultural, political, and socioeconomic environments introduce into the marketing process in international operations. Main focus is on the European Union, broadly interpreted to include countries throughout Europe. Foreign competitors and their effects on the American market will also be explored. Meets Multicultural requirement.

MAR 4231  Retail Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
Instruction in beginning a successful management career in retailing. The retail firm is presented as an integral part of the overall supply chain with emphasis on entrepreneurial and small business retail strategy and operations applicable to a wide variety of industries. Focus is on equipping students with knowledge and skills necessary to create realistic and successful retail strategy.

MAR 4234  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 4321  Internet Marketing Principles
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
Examines the principles of Internet Marketing in the context of an integrated marketing program. Internet marketing strategies and tactics will be examined in order to implement business operations on the Internet. Students will be exposed to Web design packages and techniques useful in the development of Internet Marketing Web sites.

MAR 4324  Integrated Marketing Communications: Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023 and one of the following: ADV 3000 or MAR 4324.
Formulation of marketing communication policies involving an analysis of cases dealing with the role of marketing communication in marketing; determination of objectives, strategy, appropriation policy, media selection, evaluating marketing communication results, and organization of marketing communication functions.

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.

MAR 4613  Marketing Research
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023, STA 2023
Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 5616: graduate students will be assigned additional work.

MAR 4721  Internet Marketing Principles
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
Examines the principles of Internet Marketing in the context of an integrated marketing program. Internet marketing strategies and tactics will be examined in order to implement business operations on the Internet. Students will be exposed to Web design packages and techniques useful in the development of Internet Marketing Web sites.

MAR 4723  High Tech Product Marketing Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023
Emphasizes issues associated with marketing high-technology products in an environment of rapid technological change and ever increasing market demands, and focuses on the strategic decisions related to the development, pricing, distribution, and promotion of technology-based products.

MAR 4734  Internet Marketing Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023, MAR 4721
Development of advanced managerial skills relevant to the creation, design, and implementation of an integrated Internet marketing program. Students will create and deploy a real-world Internet business utilizing the advanced strategies, tactics, and planning mechanisms acquired.

MAR 4803  Marketing Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023, MAR 3503, ACG 3311, FIN 3403
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.

MAR 4941 Marketing Internship
1-6 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: MAR 3023

Supervised field practicum in marketing-related position. May include activities in any one or more functional areas of marketing (research, sales, advertising, promotion, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major courses and permission are required.

MAR 5616 Marketing Research
3 sh (may not be repeated for credit)
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 4613; graduate students are required to write an additional research paper or its equivalent.

MAR 6815 Marketing Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023, QMB 6305

Creation of enduring and mutually satisfactory customer relationships through the provision of customer value as an enterprise management philosophy. With consideration given to operating environments, the course is designed to teach the formulation, implementation, and control of comprehensive marketing strategy with emphasis on the integrative aspects of the marketing function in a market-based enterprise. Both qualitative and quantitative analyses are used in an applications oriented context. Contains a portfolio project.

MARKETING AND DISTRIBUTIVE EDUCATION Courses

DEC 4401 Special Teaching Methods: Distributive Education
4 sh (may not be repeated for credit)

Develops skill and competencies in special methods for those teaching distributive education in secondary schools. Includes latest instructional materials and methods for cooperative/distributive education.

MASS MEDIA COMMUNICATION Courses

MMC 2000 Principles of Mass Communication
3 sh (may not be repeated for credit)

Principles, issues, organizations and functions of film, radio, television, print and other media of mass communication. Consideration of current practices and recent developments and their implications for the future direction of mass media. (General Studies Course: SS/SOC).

MMC 3261 Computer Mediated Communication
3 sh (may not be repeated for credit)

Examination of theoretical and practical issues emerging from the use of the Internet as a communication medium. Focus is on the legal, social, and ethical problems arising from the use of computers in communication. Students also acquire skills in creating content for the Web, and in critical analysis of Web sites. Applications of the Web for advertising, public relations and journalism are discussed. Basic familiarity with computer use and operating systems is required.

MMC 3601 Minorities and the Mass Media
3 sh (may not be repeated for credit)

Concerns of mass media as they pertain to minority issues; review of mass media portrayals of minorities; problems of minority access to mass media; prospects for mass media and cultural diversity in the 21st Century. Meets Multicultural requirement.

MMC 4201 The Constitution and the Press
3 sh (may not be repeated for credit)

Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions. Offered concurrently with MMC 5206; graduate students will be assigned additional work.

MMC 4203 Media Ethics
3 sh (may not be repeated for credit)

Introduces students to classical ethical philosophies; presents various ethical decision-making strategies; application of ethical models to information-gathering and dissemination dilemmas; helps students form an ethical framework for future positions of responsibility in mass media industries; introduces students to the case method of instruction.

MMC 4252 Media Sales
3 sh (may not be repeated for credit)

The convergence of new and old technologies will redefine past concepts of the media. In this new, digital, interactive, high-cost, highly fragmented, and highly competitive media world, generating revenue is a top priority for survival. Sales people and sales managers have become more important to the media industry. Introduces students to the principles of media selling and sales management and prepares them for media selling and sales management jobs at a time when media companies are cutting back in almost every area except sales, where jobs are actually increasing.

MMC 4300 Global Communication
3 sh (may not be repeated for credit)

Study of comparative mass media systems (telecommunication, film and print media) and related problems and issues of culture, national development, foreign policy, national sovereignty, regulation and policy, information flow, propaganda, human rights and global trends in telecommunication. Offered concurrently with MMC 5306; graduate students will be assigned additional work. Senior standing is required. Meets Multicultural requirement.

MMC 5206 The Constitution and the Press
3 sh (may not be repeated for credit)

Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions. Offered concurrently with MMC 4201; graduate students will be assigned additional work.
MATHEMATICS Courses

MAT 1033 Intermediate Algebra
3 sh (may not be repeated for credit)
Provides preparation in the elements of algebra that are required for higher mathematics and statistics courses. Covers basic principles and techniques of the following topics: factoring algebraic expressions, manipulation of algebraic fractions, radicals and exponents; complex numbers, linear, quadratic and rational equations, systems of linear inequalities and their graphical representation, introduction to functions. College preparatory algebra or appropriate score on placement test is required prior to taking this course. Credit towards Gordon or General Studies cannot be earned in MAT 1033.

MAT 4156 Vector Analysis
3 sh (may not be repeated for credit)
Applications of linear algebra. (Gordon Rule Course: Theoretical Math).

MAT 4203 Number Theory
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Divisibility properties of integers, number-theoretic functions, Diophantine equations, theory of congruences and topics in cryptography. (Gordon Rule Course: Theoretical Math).

MAT 4301 Abstract Algebra
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Concepts of basic algebraic structures, set, group, ring, integral domain and field. (Gordon Rule Course: Theoretical Math).

MAT 5145 Matrix Theory
3 sh (may not be repeated for credit)
Canonical forms of matrices, similarity, quadratic forms.

MATHEMATICS: ANALYSIS Courses

MAA 4211 Advanced Calculus I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 and MHF 3202
The theory of functions of a real variable. Inequalities, sequences, rigorous discussion of limits, continuity, differentiability and Riemann integrals. Basic concepts of point set topology on the real line. (Gordon Rule Course: Theoretical Math).

MAA 4212 Advanced Topics in Multi-Variable Calculus
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Differential and integral calculus of functions of several variables. Basic concepts of point set topology on the plane, partial derivatives, chain rule, multiple integrals and their transformations, infinite series, uniform convergence of sequences and series of functions. (Gordon Rule Course: Theoretical Math).

MAA 4402 Analytic Functions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Offered concurrently with MAA 5404; graduate students will be assigned additional work.

MAA 5404 Analytic Functions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Co-requisite: Senior standing is required.
Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Senior standing is required. Offered concurrently with MAA 4402; graduate students will be assigned additional work.

MATHEMATICS: ALGEBRAIC STRUCTURES Courses

MAS 3105 Linear Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Systems of linear equation, row echelon form, matrix algebra, determinants and their properties, vector spaces, linear independence, base and dimension, row and column spaces, linear transformations and their matrix representations, similarity, inner product and orthogonality, eigenvalues and eigenvectors, diagonalization, applications of linear algebra. (Gordon Rule Course: Theoretical Math).

MAS 4156 Vector Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Vector algebra and calculus; line, surface and volume integrals, theorems of Green, Gauss and Stokes. (Gordon Rule Course: Theoretical Math).
MAA 6306  Real Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAA 4211 Advanced Calculus I
A classical real analysis course begins with a typological study of the real number line and includes the Hölder and Minowski inequalities, and other classical inequalities; metric spaces, open and closed sets, convergence, Cauchy sequences, completeness continuity; normed spaces. The course also includes the Lebesgue integral on the real line, convergence results for sequences of functions.

MATHEMATICS: APPLIED Courses

MAP 2302  Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313

MAP 4115  Introduction to Stochastic Processes
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal Theory, Branching processes, Queueing systems, applications to quality control. (Gordon Rule: Mathematics-Applied). Offered concurrently with MAP 5116; graduate students will be assigned additional work.

MAP 4341  Partial Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302
First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 5345; graduate students will be assigned additional work.

MAP 5116  Introduction to Stochastic Processes
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 or equivalent
General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal theory, Branching processes, Queueing systems, applications to quality control. Offered concurrently with MAP 4115; graduate students will be assigned additional work.

MAP 5345  Partial Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302
First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 4341; graduate students will be assigned additional work.

MAP 5471  Advanced Probability and Inferences
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313
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.

MATHEMATICS: CALCULUS AND PRECALCULUS Courses

MAC 1105  College Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAT 1033 OR 520 SAT or 22 ACT
Provides the concepts and techniques of algebra that are needed to understand subjects such as statistics and economics which contain a considerable amount of quantitative reasoning. Is additionally a preparatory course for the study of calculus. Major topics include: the concept of functions, graphs of functions and relations, operations on functions, rational functions, exponentials and logarithms, systems of equations and inequalities, applications. Prerequisite course or appropriate score on placement test is required. Students may earn 3 semester hours credit toward Gordon Rule for MAC 1105. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT/ALG).
MAC 1114  Trigonometry
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1140
Trigonometric functions, their properties and graphs, inverse trigonometric functions, their properties and graphs, trigonometric identities, conditional trigonometric equations; solutions of triangles, vector algebra, parametric equations, polar coordinates, applications. College Algebra or a strong high school algebra background is required. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT/MAT).

MAC 1140  Precalculus Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1114
Stresses the aspects of algebra that are important for the calculus sequence. Lays emphasis on graphs in the study of functions and algebraic relations. Covers polynomials; rational functions; logarithmic, exponential, and piecewise defined functions; inequalities; conic sections; matrices; sequences, and series; mathematical induction. Prerequisite course or appropriate score on placement test is required. Students may earn 3 semester hours credit toward Gordon Rule for MAC 1140. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT/ALG).

MAC 2233  Calculus with Business Applications
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1114 or MAC 1140
Sets and functions; derivatives; areas under a curve; integration; exponentials and logarithms; applications of derivatives and integrals. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MAC 2311  Analytic Geometry and Calculus I
4 sh (may not be repeated for credit)
Prerequisite: MAC 1114 and MAC 1140
Differential and Integral Calculus of Algebraic, Trigonometric, and Transcendental functions of single variables. Related applications. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MAC 2312  Analytic Geometry and Calculus II
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Application of the Definite Integral. Hyperbolic and Inverse Trigonometric Functions. Methods of Integration. Sequences and Infinite Series. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MAC 2313  Analytic Geometry and Calculus III
4 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Analytic Geometry and Calculus. Vectors and Vector-Valued Functions. Partial Differentiation. Multiple Integration. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MAC 3949  Cooperative Education
1-2 sh (may be repeated for up to 4.0 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.

MAD 3107  Discrete Mathematics and Applications
3 sh (may not be repeated for credit)
Prerequisite: COT 3100C or 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. (General Studies Course: MAT) and (Gordon Rule Course: Theoretical Math).

MAD 4301  Graphs and Their Application
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite Graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 5305; graduate students will be assigned additional work.

MAD 4401  Numerical Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAS 3105
Numerical solutions of equations in one variable, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions of initial value and boundary value problems for O.D.E., direct methods for solving linear systems, iterative techniques in matrix algebra. Some problems solved with aid of computer. A computer language is required prior to this course. (Gordon Rule Course: Theoretical Math).

MAD 4605  Coding Theory
3 sh (may not be repeated for credit)
Prerequisite: MAS 3105
Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 5608; graduate students will be assigned additional work.

MAD 5305  Graphs and Their Applications
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 4301; graduate students will be assigned additional work.
MATHEMATICS: EDUCATION Courses

MAE 4310  Teaching Mathematics in the Elementary School
3 sh (may not be repeated for credit)
Theory and methods for teaching mathematics in the elementary school; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics.

MAE 4320  Teaching Mathematics in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Theory and methods of teaching mathematics in the middle and secondary schools; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics. Includes observation/participation in appropriate school settings.

MAE 4657  Mathematics for the 21st Century
3 sh (may not be repeated for credit)
Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 4658; graduate students will be assigned additional work.

MAE 5338  Teaching Geometry Concepts in Secondary Education
3 sh (may not be repeated for credit)
This course is designed for math teachers. The overall objective is to increase teachers' knowledge and competence for math teachers in both content and pedagogy related to the teaching and learning of Calculus. The primary topics to be covered are: functions, operations on functions, limits, continuity, Intermediate Value Theorem, average and instantaneous rate of change, derivative, tangent or slope of curve, increasing/decreasing function, concavity, derivative rules, maximum/minimum of function, inflection point, family of curves, Extreme Value Theorem, Mean Value Theorem, integrals, definite integral, Fundamental Theorem of Calculus, antiderivatives. Admission to Teacher Education.

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.

MAE 6128  Proportional Reasoning
3 sh (may not be repeated for credit)
Proportional reasoning applies to many contexts and areas of mathematics and is central to teaching and learning in the middle grades. Explores aspects of proportional reasoning including ratio, proportion, similarity, slope, unit analysis, and measurement conversions. Activities include determining when proportional reasoning does and does not apply, using formal and informal approaches to solve problems involving proportional reasoning, and recognizing students’ understanding of and common misconceptions of proportionality.

MAE 6346  Fractions, Decimals and Percents
3 sh (may not be repeated for credit)
Teachers work with fundamental concepts in fractions, decimals, and percents and their interrelationships. Another focus is student’s misconceptions and difficulties.

MAE 6361  Teaching Mathematics in Middle Level and Secondary Education
3 sh (may not be repeated for credit)
Co-requisite: 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.

MAE 6386  Teaching Calculus Concepts in Secondary Education I
3 sh (may not be repeated for credit)
Designed for math teachers. The overall objective is to increase knowledge and competence for math teachers in both content and pedagogy related to the teaching and learning of Calculus. The primary topics to be covered are: functions, operations on functions, limits, continuity, Intermediate Value Theorem, average and instantaneous rate of change, derivative, tangent or slope of curve, increasing/decreasing function, concavity, derivative rules, maximum/minimum of function, inflection point, family of curves, Extreme Value Theorem, Mean Value Theorem, integrals, definite integral, Fundamental Theorem of Calculus, antiderivatives. Admission to Teacher Education.
MATHEMATICS: GENERAL AND FINITE Courses

MGF 1106  Mathematics for Liberal Arts I
3 sh (may not be repeated for credit)

MTG 6348  Point Set and Algebraic Topology
3 sh (may not be repeated for credit)
Prerequisite: Abstract Algebra or by permission of instructor

MATHEMATICS: HISTORY AND FOUNDATIONS Courses

MGT 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: MGT 3202

Axiomatic systems, non-Euclidean geometries, synthetic and algebraic projective geometry. Knowledge of high school geometry is required.

MATHEMATICS: TOPOLOGY AND 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 6348  Point Set and Algebraic Topology
3 sh (may not be repeated for credit)
Prerequisite: Abstract Algebra or by permission of instructor

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.

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 4191  Molecular Diagnostics
2 sh (may not be repeated for credit)
Prerequisite: MLS 4625 and MLS 4630
Co-requisite: MLS 4191L

This course offers fundamentals of clinical diagnosis and management of disease by molecular biology laboratory methods. Two broad areas in the current state of the art will be addressed: molecular diseases/variants and molecular methods to diagnose and monitor disease. Disorders due to inherited or acquired molecular defects such as errors of metabolism, hemoglobinopathies, leukemia, and cystic fibrosis are discussed. Principles and procedures for the diagnosis and management of infectious diseases by molecular methods are also included. The discussion of molecular approaches to diagnosing and monitoring these diseases will span the conventional methods of PCR, gel electrophoresis and Southern Blotting to semi-automated methods of TMA, LCR and Real-time PCR. A survey of molecular diagnostic methods currently available in various sections of a clinical laboratory is included. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4191L  Molecular Diagnostics Laboratory
0 sh (may not be repeated for credit)
Prerequisite: MLS 4625 and MLS 4630
Co-requisite: MLS 4191

Methods for specimen collection and handling, contamination control, amplification and detection of genetic material from humans and microorganisms. Methodologies include PCR, electrophoresis for DNA and proteins, densitometry, Southern Blot and Western Blot techniques. Material and Supply fee will be assessed. Permission is required.

MLS 4220  Urinalysis/Body Fluids I
2 sh (may not be repeated for credit)
Co-requisite: MLS 4220L

Teaches the entry level clinical laboratory scientist the physiology, routine testing and interpretation for the following body fluids: urine, cerebrospinal fluid, semen, sweat, serous fluids (peritoneal, pleural, pericardial, synovial), and dialysates. Correlation of lab findings to various disease conditions is stressed. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.
MLS 4220L  Urinalysis/Body Fluids I
0 sh (may not be repeated for credit)
Co-requisite: MLS 4220
Corresponding Lab for Urinalysis/Body Fluids I.

MLS 4305  Hematology I
4 sh (may not be repeated for credit)
Prerequisite: PCB 2131
Co-requisite: MLS 4305L
Study of production, maturation and morphology of normal and abnormal human blood cells. Pathological changes in morphology, cytochemistry and distribution of cells in peripheral blood and bone marrow. Manual and automated methods for blood cell counts, hemoglobin measurement and other 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
0 sh (may not be repeated for credit)
Co-requisite: MLS 4305
Corresponding lab for Hematology I.

MLS 4334  Hemostasis and Thrombosis
2 sh (may not be repeated for credit)
Co-requisite: MLS 4334L
Role of blood vessels, platelets and coagulation factors in normal hemostasis. Platelet morphology and function, laboratory tests for evaluation of platelets, and platelet disorders. Study of coagulation factors, coagulation pathways, and inherited and acquired coagulation disorders. Normal fibrinolysis and disorders of fibrinolysis. Physiologic and pathologic coagulation inhibitors and their role in normal and abnormal hemostasis. Diagnosis and management of hemorrhagic diseases. Thrombotic disorders and their management by anticoagulant therapy and fibrinolytic therapy. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4334L  Hemostasis and Thrombosis Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4334
Corresponding lab for Hemostasis and Thrombosis.

MLS 4460  Diagnostic Microbiology I
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020, MCB 3020L
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, MCB 3020L
Co-requisite: MLS 4460
Methods for specimen collection, handling and processing of human tissues and body fluids for isolation and identification of bacteria. Conventional and rapid identification methods for clinically significant bacteria, principles of automation, susceptibility testing, infection control, and quality assurance procedures are included. Material and supply fee will be assessed. Permission is required.

MLS 4462  Medical Microbiology
4 sh (may not be repeated for credit)
Prerequisite: MCB 3020, MCB 3020L
Co-requisite: MLS 4462L
Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4462L  Medical Microbiology Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4462
Corresponding lab for Medical Microbiology.

MLS 4505  Serology
2 sh (may not be repeated for credit)
Co-requisite: MLS 4505L
Diagnostic tests by clinical immunology and serology methods. Principles and practical applications of laboratory methods based on the detection of specific and non-specific immune responses to foreign or autologous antigens. Traditional serological methods for diagnosis of bacterial, viral, and fungal organisms. Latest immunological and molecular methods for detection and confirmation of HIV, hepatitis, HTLV, chlamydia, rubella and other significant pathogens. Lab methods for diagnosis of SLE and other autoimmune diseases. Basics of hypersensitivity reactions and transplantation immunology. Material and Supply Fee will be assessed to corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4505L  Serology Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4505
Corresponding lab for Serology.

MLS 4550  Immunohematology I
4 sh (may not be repeated for credit)
Co-requisite: MLS 4550L
Fundamentals of blood group immunology. Pre-transfusion testing of patient blood and donor blood for compatibility. Antigens, antibodies and their properties in clinically significant blood group systems. ABO & RH typing, compatibility testing and special tests. Antibody screen and identification. Autoimmune Hemolytic Anemia and Hemolytic Disease of the Newborn. Transfusion therapy, hazards of transfusion and investigation of transfusion reactions. Donor selection, collection of donor blood and testing for infectious agents. Preparation, storage and utilization of blood components. Regulations, medico-legal and ethical aspects of transfusion services. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.
MLS 4550L  Immunohematology I Lab
0 sh (may not be repeated for credit)
Co-requisite: MLS 4550

Corresponding lab for Immunohematology I.

MLS 4625  Clinical Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 Biochemistry I
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
0 sh (may not be repeated for credit)
Co-requisite: MLS 4625

Lab devoted to the chemical analysis and interpretation of blood and other bodily fluids. Selected experiments in diabetes and cardiovascular disease risk assessment and monitoring. Safety, instrumentation and quality control will be stressed. Methodologies discussed include spectrophotometry, immunodiagnostics, and computer generated analyses. Material and Supply fee will be assessed. Permission is required.

MLS 4630  Clinical Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: MLS 4625 and MLS 4625L
Co-requisite: MLS 4630L

This course continues where Clinical Chem I left off, discussing kidney function, electrolytes, blood gases, acid-base balance, mineral metabolism, enzyme measurement, liver function studies, and pancreatic function assessment. It also includes the more esoteric tests involved in testing endocrine function, therapeutic drug monitoring, toxicology, tumor markers, and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Reading and disseminating research in the discipline is emphasized in the format of a journal club. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4630L  Clinical Chemistry II Lab
0 sh (may not be repeated for credit)
Prerequisite: MLS 4625 and MLS 4625L
Co-requisite: MLS 4630

This course covers laboratory procedures evaluating kidney and liver function, electrolytes, acid-base balance, mineral metabolism, enzyme measurements, toxicology and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Material and Supply fee will be assessed. Permission is required.

MLS 4705  Special Clinical Topics
1 sh (may not be repeated for credit)

Fundamentals of clinical laboratory management, supervision and educational methodologies are covered. Students are introduced to clinical laboratory operations in areas of financial and human resource management, marketing of laboratory services, communications with other health care professionals, laboratory information systems and regulatory compliance with applicable regulatory agencies. Other special clinical topics related to education and training, lab safety, HIV/AIDS, prevention of medical errors, professional ethics and career planning are presented.

MLS 4820L  Clinical Chemistry III
4 sh (may be repeated for up to 0.0 sh of 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 and MLS 4305L

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 and MLS 4550L

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 4931  Advances in Biomedical Technology  
1-2 sh (may be repeated for up to 2.0 sh of credit)  
Developments in biomedical technology including stem cells, new and emerging pathogens, advances in cardiac and cancer diagnosis, screening for fetal defects, drug testing, transfusion medicine, osteoporosis and cystic fibrosis screening. Current topics in screening, diagnosis and management of disease by laboratory methods. One course in chemistry and one course in biological sciences required prior to taking this course.

**MENTAL HEALTH SERVICES Courses**

MHS 6800  Guidance and Counseling Practicum  
3 sh (may not be repeated for credit)  
Under the supervision of a practicing counselor and university supervisor, students will demonstrate their knowledge and abilities in the role of individual and group counseling, collaborator with other educators, and coordinator of guidance services. All coursework in the guidance and counseling certification program, and permission is required.

**MICROBIOLOGY Courses**

MCB 1000  Fundamentals of Microbiology  
3 sh (may not be repeated for credit)  
Co-requisite: CHM 1032 and CHM 1032L or CHM 2045 and CHM 2045L  
An introductory microbiology course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. (General Studies Course: NS/LECT).

MCB 1000L  Fundamentals of Microbiology Laboratory  
1 sh (may not be repeated for credit)  
Co-requisite: 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. (General Studies Course: NS/LAB).

MCB 3020  Microbiology  
3 sh (may not be repeated for credit)  
Prerequisite: CHM 2045, CHM 2046  
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 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.

MHS 6800  Guidance and Counseling Practicum  
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.

**MILITARY SCIENCE AND 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.

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.

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.

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.
MSL 3201C  Tactical Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: MSL 1001, MSL 1002, MSL 2101, MSL 2102 or approved credit for military experience  
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.

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 2241  Diction for Singers I: Italian  
1 sh (may not be repeated for credit)  
Prerequisite: MUS 2241  
Study of stage pronunciation and enunciation in Italian with comparisons made to the sounds in English, and utilizing the International Phonetic Alphabet. Student must be enrolled in applied voice either on the major or minor level.

MUS 3253  Diction for Singers II: French/German  
1 sh (may not be repeated for credit)  
Prerequisite: MUS 2241  
Study of stage pronunciation and enunciation in French and German with comparisons made to the sounds in English, and utilizing the International Phonetic Alphabet. Student must be enrolled in applied voice either on the major or minor level.

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; practice applications to performance.

MUSIC: EDUCATION Courses

MUE 2040  Introduction to Music Teaching  
2 sh (may not be repeated for credit)

A foundation course for potential music educators. An overview of the music education profession and its relationship to mainstream education issues; includes 10 hours of initial observations/participation in local school classrooms. Permission is required.

MUE 3210  Music for the Elementary School Teacher  
2 sh (may not be repeated for credit)

Overview of music program for elementary children. Music methods and instructional materials for elementary music program through activities in singing, listening, playing and moving to music. No previous experience in music necessary. Material and supply fee will be assessed.

MUE 3311  Methods for the Elementary School Music Teacher  
2 sh (may not be repeated for credit)

How to teach music in the elementary school. Includes "how to" instruction in teaching general music and how to begin and maintain an elementary choral program. For music majors only.

MUE 3312  Kodaly Method  
3 sh (may not be repeated for credit)  
Prerequisite: MUE 2040, MUE 3311

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 4.0 sh of credit)  
Prerequisite: MUT 2116  
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 4330  Music in the Middle and Secondary Schools  
2 sh (may not be repeated for credit)  
Prerequisite: MUE 2040, MUE 3311  
The organization and administration of general, choral, and instrumental music in middle and high schools. Permission is required.
MUSIC: ENSEMBLES Courses

MUE 4343  String Methods and Materials
2 sh (may not be repeated for credit)
Designed to teach Music Ed majors how to begin and implement a string program in the school system. It includes strategies for teaching strings in group settings.

MUE 4411  Special Methods/Choral Techniques
2 sh (may not be repeated for credit)
Problems related to choral conducting with practical application of applicable choral techniques at all levels, elementary through high school. Includes choral and full score study, repertoire for various levels and observations in the public schools of choral music classes.

MUE 4451  Woodwind Instrument Methods and Materials
2 sh (may not be repeated for credit)
Woodwind instruments, playing techniques, reed making techniques, instrument maintenance, history methodology, pedagogy, literature for solo and ensemble experiences. Observations of representative public school programs of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4465  Brass Instrument Methods and Materials
2 sh (may not be repeated for credit)
Brass instrument playing techniques, pedagogy, literature and materials. Required of students in music teaching track.

MUE 4475  Percussion Methods and Materials
2 sh (may not be repeated for credit)
Percussion instruments, playing techniques, history, methodology, pedagogy and literature for solo and ensemble experiences. Observations of representative public school programs required of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4493  Special Methods/Instrumental Techniques
2 sh (may not be repeated for credit)
Prerequisite: MUT 4311
Problems in organization and administration of school instrumental groups at all levels, elementary through high school including marching bands, jazz bands, and band parent organizations. Advanced conducting of instrumental music; study of baton techniques and score analysis; practical applications to performance. Observation of music programs in public schools with emphasis on large and small performing ensembles.

MUE 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.
MUN 3483  Guitar Ensemble
1 sh (may be repeated for up to 10.0 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 for up to 99.0 sh of 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 4411  String Quartet
1 sh (may be repeated for up to 8.0 sh of credit)
An ensemble to explore the vast literature in the string quartet genre. May be expanded by an additional instrument for certain works. Material and Supply Fee will be assessed.

MUN 4714  The University of West Florida Jazz Band
1 sh (may be repeated for up to 99.9 sh of credit)
Standard jazz ensemble instrumentation. Opened to qualified students depending on needed instrumentation. Material and Supply Fee will be assessed.

MUSIC: HISTORY/MUSICOLOGY Courses
MUH 2930  The Music Experience: Special Topics
3 sh (may be repeated for up to 9.0 sh of credit)
With a non-traditional and multi-cultural approach, specific topics in music are offered each semester. Topics vary each semester but include such areas as Latin American Music, Jazz, Eastern European Music, Music of the Far East, etc. Consult the current course bulletin for semester topic. (General Studies Course: HUM/FA) Meets Multicultural requirement.

MUH 3211  History of Western Music I: End of Ancient World Through 17th Century
3 sh (may not be repeated for credit)
First of two courses designed to increase student’s understanding of history and literature of music. Music in Western Civilization from and of ancient world through 17th century. Three hours per week. Listening assignments in Music Listening Library. (Gordon Rule Course: Wrtg).

MUH 3212  History of Western Music II: 18th through 20th Centuries
3 sh (may not be repeated for credit)
Continuation of music history and literature sequence. Vocal and instrumental idioms of 18th-20th centuries emphasizing works of major composers. (Gordon Rule Course: Wrtg).

MUH 3643  Choral Literature
2 sh (may not be repeated for credit)
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.

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.

MUSIC: LITERATURE Courses
MUL 2110  Music in Western Civilization
3 sh (may not be repeated for credit)
Musical perspectives within Western civilization. Designed to express the correlation of music, art, and literature with Western culture. Special emphases include the nature of music, both past and present, and music as reflection/expression of society’s vital activities. (General Studies Course: HUM/FA).

MUL 3503  Symphonic and String Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 (or currently enrolled) and MUT 3611 (or currently enrolled)
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 (or currently enrolled) and MUT 3611 (or currently enrolled)
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 (or currently enrolled) and MUT 3611 (or currently enrolled)
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 3644  Choral Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211 (or currently enrolled) and MUT 3611 (or currently enrolled)
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.

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.
MUSIC: OPERA/MUSICAL THEATRE Courses

MUO 3503  Advanced Opera Studio
1 sh (may be repeated for up to 99.9 sh of credit)
Study of the techniques of characterization, dramatic analysis, and ensembles singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a series of opera scenes recitals. Audition and permission required. Open to junior and senior levels only.

MUO 4504  Opera Workshop
3 sh (may not be repeated for credit)
An interdisciplinary, performance-oriented study of the techniques of characterization, dramatic analysis, and ensemble singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a recital in order to integrate singing skills and characterization skills for opera and musical theatrical performance.

MUSIC: THEORY Courses

MUT 1111  Freshman Theory
3 sh (may not be repeated for credit)
Co-requisite: MUT 1271
Basic fundamentals of music theory, including meter and rhythm, tonic, dominant and sub dominant harmony, cadences, major and minor tonality, and inverted triads. Required of all students majoring in music; non-music majors must have departmental permission.

MUT 1112  Freshman Theory II
3 sh (may not be repeated for credit)
Prerequisite: MUT 1111/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 2116  Sophomore Theory
3 sh (may not be repeated for credit)
Prerequisite: MUT 1112/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/MUT 2276
Co-requisite: MUT 2277
Continuation MUT 2116, including augmented sixth chords, the neapolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.

MUT 2276  Sophomore Theory I Lab
1 sh (may not be repeated for credit)
Prerequisite: MUT 1272
Co-requisite: MUT 2116
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2277  Sophomore Theory II Lab
1 sh (may not be repeated for credit)
Prerequisite: MUT 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 type and related scales, chord progressions, memorization, and listening are covered. Open to all majors.

MUT 2362  Jazz Fundamentals II
2 sh (may not be repeated for credit)
Prerequisite: MUT 2361
Continuation of Jazz Fundamentals I. Jazz Theory and the use of chords and voicings, chord/scale relationship and score analysis.

MUT 3401  Techniques of Counterpoint
2 sh (may not be repeated for credit)
Prerequisite: Piano Proficiency
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)
Prerequisite: Piano Proficiency
Systematic analysis of 17th, 18th, 19th and 20th century music, with emphasis upon structural designs and stylistic trends. Two years of music theory required.

MUT 3671  Jazz Improvisation I
2 sh (may not be repeated for credit)
Prerequisite: Piano Proficiency
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.

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.
NUR 3535L Psychiatric/Mental Health Nursing Clinical Lab
3 sh (may not be repeated for credit)
Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3736, NUR 3736L
Clinical component to NUR 3535 providing opportunity to apply nursing therapeutics for in-patient care in mental health and psychiatric settings. Graded on satisfactory/unsatisfactory basis only. Permission is required.

NUR 3678 Nursing Care of Vulnerable Populations
3 sh (may not be repeated for credit)
Course entails how to care for the vulnerable, the relevance of nursing theories to vulnerable populations, nursing research showing the kinds of phenomena nurses study, and learning to work with and advocate for vulnerable individuals. Meets Multicultural requirement.

NUR 3735 Foundations of Medical Surgical Nursing
8 sh (may not be repeated for credit)
Co-requisite: NUR 3116, NUR 3145, NUR 3735L
Presents adults as holistic beings by identifying health patterns and family relationships. Pathophysiology is integrated in discussion of specific diseases and disorders. The identification and application of principles and concepts related to selected psychomotor skills used in nursing practice is included. Students use concepts from nursing, humanities, and bio-psycho-social sciences to understand human responses to common actual and potential health problems and as a basis for nursing practice.

NUR 3735L Foundations of Medical Surgical Nursing Clinical Lab
4 sh (may not be repeated for credit)
Clinical laboratory provides opportunity for application on interpersonal and psychomotor skills to nursing care of adult and pediatric clients and their families in a structured health care setting. The nursing process is utilized to assess, plan, implement, and evaluate nursing care provided for human responses to actual or potential health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Material and Supply fee will be assessed.

NUR 3736 Medical Surgical Nursing II
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3535, NUR 3535L
Presents adults and children as holistic beings by identifying patterns and family relationships. Pathophysiology is integrated in discussion of specific diseases and disorders. Students use concepts from nursing, humanities, and bio-psycho-social sciences to understand human responses to common actual and potential complex health problems and as a basis from nursing practice. Permission is required.
NUR 3736L  Medical Surgical Nursing II Clinical Laboratory
5 sh (may not be repeated for credit)
Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3736L, NUR 3535, NUR 3535L
Provides the opportunity for application of critical thinking processes in promotion of health, prevention of illness and provision of holistic nursing care for adults, children, and their families in a variety of structured health care settings. The nursing process is used to assess, diagnose, and treat human responses to actual or potential acute and chronic health problems based on principles from the biologic, physiologic, behavioral sciences, humanities, and nursing. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

NUR 3837  Health Care Issues
2 sh (may not be repeated for credit)
Focuses on the nursing profession and current major issues and problems that concern it, and provides a forum for the exploration and evaluation of concerns germane to contemporary nursing. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. Permission is required.

NUR 4165  Nursing Research
3 sh (may not be repeated for credit)
Introduction to the stages of the research process from conceptualization to dissemination of results. Designed to assist the nurse to appreciate the contributions of research to improvement of nursing practice, it will provide a necessary base in rudiments of research and an incentive to explore the research potential in the clinical setting. All statewide common prerequisites for Baccalaureate Nursing must be completed prior to taking this course. Permission is required. (Gordon Rule Course: WRTG).

NUR 4177  Holistic Healthcare
3 sh (may not be repeated for credit)
This on-line course explores the role of selected complementary and alternative health practices and promotions in the healthcare arena. Emphasis will be placed on ways to promote healing and optimum health in the individual. Offered concurrently with NGR 5167; graduate students will be assigned additional work. Meets Multicultural requirement.

NUR 4257  Medical-Surgical Nursing III
3 sh (may not be repeated for credit)
Prerequisite: NUR 4195, NUR 4195L, NUR 4455, NUR 4455L
Co-requisite: NUR 4257L, NUR 4827, NUR 4945L
Theory and skills in caring for individuals and families experiencing acute, unstable, or life threatening problems. Critical thinking skills and nursing interventions developed. Permission is required.

NUR 4257L  Medical-Surgical Nursing III Clinical Laboratory
4 sh (may not be repeated for credit)
Prerequisite: NUR 4195, NUR 4195L, NUR 4455, NUR 4455L
Co-requisite: NUR 4257, NUR 4827, NUR 4945L
Clinical component of NUR 4257 provides opportunity to apply nursing therapeutics for the acutely ill client in critical care settings. Graded on satisfactory/unsatisfactory basis only. Permission is required. Material and supply fee will be assessed.

NUR 4286  Gerontological Nursing
3 sh (may not be repeated for credit)
An on-line nursing course designed to meet the health care challenge presented by the increasing population of the elderly. Provides students with an opportunity to expand their knowledge about the unique needs of older clients. Presents a holistic approach incorporating physical, spiritual, emotional, social and cultural aspects of aging. Permission is required.

NUR 4455  Maternal-Newborn Nursing
2 sh (may not be repeated for credit)
Prerequisite: NUR 3736, NUR 3736L, NUR 3535, NUR 3535L
Co-requisite: NUR 4455L, NUR 4615, NUR 4615L, NUR 4165
Nursing care practices and patient needs of the childbearing family from preconception through 28th day of life. Continues application of general systems theory. Emphasis on the family and promotion of physical, social and emotional well being. Permission is required.

NUR 4455L  Maternal-Newborn Nursing Clinical Laboratory
2 sh (may not be repeated for credit)
Prerequisite: NUR 3736, NUR 3736L, NUR 3535, NUR 3535L
Co-requisite: NUR 4455, NUR 4615, NUR 4165
Clinical component of NUR 4455, provides opportunity to apply nursing therapeutics for family care in childbearing and newborn settings. Promotes identification and utilization of nursing interventions to prevent illness and promote health by using critical thinking and problem solving. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

NUR 4615  Family and Community Health Nursing
3 sh (may not be repeated for credit)
Prerequisite: RN to BSN: NUR 3067, Generic: NUR 3736 and NUR 3736L
Co-requisite: RN to BSN: NUR 4615L
Prevention of disease, environmental sanitation, and crises intervention to help the client, family, and community achieve their maximum health potential. Meets Multicultural requirement.

NUR 4615L  Family and Community Health Nursing Laboratory
3 sh (may not be repeated for credit)
Co-requisite: NUR 4615
Application of the concepts of health maintenance and promotion is afforded the student in primary, secondary and tertiary care setting.

NUR 4636  Community Health Nursing
4 sh (may not be repeated for credit)
Prerequisite: NUR 3067, NUR 3081, NUR 4165
Introduces and facilitates the conceptualization of family, population groups, and community as units of care. Concepts include epidemiology, health policy, and risk reduction, health maintenance, and promotion of high-level wellness to individuals, families and groups of diverse and vulnerable populations throughout the lifespan. Variables such as culture and environment, which influences health behaviors of families and the community, are considered in planning and evaluating the outcomes of nursing intervention. Permission is required. Satisfies Multicultural Requirement.
NUR 4827  Nursing Management and Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 4615, NUR 4615L, NUR 4165, NUR 4455, NUR 4455L  
Co-requisite: (NUR 4836L and NUR 3837) or (NUR 4257, NUR 4257L, NUR 4945L, and NUR 3837)  
Group process provides the forum to study leadership, collaboration and coordination in health-care settings. This serves as the Capstone course for the Nursing Program. Permission is required.

NUR 4828  Nursing Systems Management  
4 sh (may not be repeated for credit)  
Prerequisite: NUR 3067, NUR 3081, NUR 4165  
Development of management skills for the professional nurse role by applying the principles of leadership theories and styles, management, and regulatory agencies that define boundaries of nursing practice in healthcare organizations. Collaboration, conflict management, and effective communication skills through the use of group process, and teaching/learning strategies that emphasize the leadership management roles of the nurse. The role of the professional nurse in efficient patient care management in complex health care settings. Permission is required.

NUR 4895  Client Education  
4 sh (may not be repeated for credit)  
This course focuses on teaching/learning theories and processes. Demonstrating appropriate strategies, the student will collaborate to assess and identify needs, develop measurable objectives, determine methodology, and evaluation for individual and small group client teaching. Permission is required.

NUR 4945L  Nursing Leadership and Management Preceptorship  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 4615, NUR 4455, NUR 4455L  
Clinical component to NUR4827 which supports the transition to professional nursing. Course provides the opportunity to apply nursing leadership and management strategies to healthcare settings. Provides the opportunity to synthesize nursing knowledge and experience professional role implementation.

NURSING: GRADUATE Courses

NGR 5131  Cultural Factors in Health and Illness  
3 sh (may not be repeated for credit)  
Influence of culture on health and health care beliefs and practices. Institutional health care policies which conflict with ethnic or cultural beliefs will be discussed. Selected content and learning experiences will guide students who interact with clients in a variety of settings. Satisfaction of all General Studies requirements; completion of majority of upper-division degree requirements; or equivalent. Offered concurrently with NSP 4185; graduate students will be assigned additional work.

NGR 5167  Holistic Healthcare  
3 sh (may not be repeated for credit)  
This on-line course explores the role of selected complementary and alternative health practices and promotions in the healthcare arena. Emphasis will be placed on ways to promote healing and optimum health in the individual. Offered concurrently with NUR 4177; graduate students will be assigned additional work.

NGR 5250  Advanced Gerontological Nursing  
3 sh (may not be repeated for credit)  
An on-line graduate nursing course designed to meet the health care challenge presented by the increasing population of older individuals. Provides students with an opportunity to expand their knowledge about the unique needs of older clients. Examines older clients from a holistic approach incorporating physical, spiritual, social and cultural aspects of aging. Permission is required.

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 6701  Nursing Educational Leadership  
3 sh (may not be repeated for credit)  
Builds on the undergraduate leadership content and is designed to give leadership knowledge and skills to nurse educators in colleges and universities and in staff development. Emphasizes the need for nurse educators to be an integral part of the educational leadership team. Permission is required.
NGR 6710  Nursing Education Seminar I  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6002, NGR 6140, NGR 6172, NGR 6700, NGR 6740, NGR 6800, 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, and 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. Students will also have didactic and 90 practicum hours in the subsequent course, NGR 6715. Permission is required.

NGR 6713  Nursing Curriculum, Course Design and Management  
3 sh (may not be repeated for credit)  
Provides a theoretical basis for understanding the principles of curriculum design and evaluation as applied to programs of higher education and clinical education in nursing. Trends and issues in nursing, health care, and society are explored as they affect the process of curriculum development. Opportunities to practice the elements of curriculum building including the role of philosophy/mission statements, framework development (both conceptual and theoretical), program objectives/outcomes, content mapping, course sequencing, clinical practice, and evaluation will be provided. Emphasizes course, program, and department domains in curriculum and teaching/learning theory for diverse populations. Permission is required.

NGR 6715  Nursing Education Seminar II  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6710, NGR 6002, NGR 6140, NGR 6172, NGR 6700, NGR 6740, NGR 6800  
This seminar course builds on content from the previous seminar in nursing education (NGR 6710), focusing on the nurse as an educator in both the classroom and clinical settings. The student will apply and evaluate concepts in nursing education to prepare for the nurse educator role in a selected setting. Students will continue to apply content from prior coursework in a precepted situation. Each student will obtain a preceptor who meets specified criteria for the role to serve as their clinical preceptor. Students will complete both the didactic component and 90 practicum hours. This course continues to build the student’s knowledge and skills in advanced study in inquiry, leading to preparation for a capstone project in the last semester. Permission is required.

NGR 6722  Nursing Management of Human and Financial Resources  
3 sh (may not be repeated for credit)  
Focuses on human resource management and financial/budgetary resource management. Explores human resource policies, employee selection, performance appraisal, workload management, compensation, budgeting process/development, competency, and employee training and development. Addresses government regulations, Medicare, Medicaid, DRGs, capitulation, purchasing, mergers, acquisitions, and productivity. Permission is required.

NGR 6723  Nursing Leadership Development  
3 sh (may not be repeated for credit)  
Builds on the undergraduate leadership content in the development of the advanced nursing leadership role. Explores complex theories and concepts in nursing administration. Focus is on nursing administrators/leaders making strategic changes within healthcare. Permission is required.

NGR 6724  Health Care Planning and Management in Nursing  
3 sh (may not be repeated for credit)  
Focuses on management, strategic planning, forecasting, managing projects, tools for capital budgeting and asset management, managerial decision-making skills, case management approaches and targeted markets. Additionally, the impact of external factors on complex healthcare systems will be explored. Permission is required.

NGR 6728  Nursing Leadership & Management Seminar I  
6 sh (may not be repeated for credit)  
Prerequisite: NGR 6700, NGR 6740, NGR 6880, NGR 6002, NGR 6140, NGR 6172, NGR 6800  
This initial specialization seminar course builds on undergraduate content regarding 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 6728, NGR 6002, NGR 6140, NGR 6172, NGR 6700, NGR 6800, NGR 6740, NGR 6880  
This is the second Nursing Leadership and Management Seminar with the focus on nursing administrators/leaders making organizational strategic changes within healthcare. This course will explore (1) nursing as a business, (2) organizational culture and diversity, (3) complexity leadership and management principles, (4) strategic planning, (5) quality and safety in healthcare, (6) developing/managing projects, (7) tools for capital budgeting and asset management, (8) managerial decision-making skills, (9) case management approaches, (10) targeted markets, and (11) outcomes management. Additionally, the impact of external factors on complex healthcare systems and nursing will be explored.

NGR 6740  Contemporary Issues in the Role of Advanced Nursing Practice  
3 sh (may not be repeated for credit)  
Focuses on the role of the Advanced Nursing Practice nurse. Integrates nursing and other discipline theories and issues relevant to clinical practice, administration, education, and research issues. Includes theoretical analysis, application, and synthesis in the development of an individual model of advanced nursing practice for the student. Permission is required.
NGR 6756  Advanced Clinical Nursing  
3 sh (may not be repeated for credit)  
Health care delivery with a focus on nursing case management and managed care. The advanced clinical nurse is viewed as a partner with a variety of disciplines in the provision of quality nursing care in a variety of settings. Permission is required.

NGR 6800  Nursing Research, Statistics, and Evidence Based Practice  
3 sh (may not be repeated for credit)  
This initial research, statistics and evidence-based practice (EBP) course builds on undergraduate research & statistics content. It explores complex theories and concepts in nursing research, statistics and evidence-based practice beginning the preparation of the student for the nursing scholar role. It includes critical appraisal of research evidence including the interpretation of statistical analyses commonly used in evidence summaries. It includes the evidence-based practice process to prepare the graduate nurse to translate research evidence summaries into evidence-based practice project proposals. It will also prepare the nurse for the role of change agent as they identify practice areas where evidence-based integration is needed and facilitate the movement of evidence-based quality initiatives.

NGR 6833  Nursing Leadership & Management EBP Project I  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6800, NGR 6002, NGR 6140, NGR 6172, NGR 6700, NGR 6740, NGR 6880 NGR 6728, NGR 6729  
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, NGR 6140, NGR 6172, NGR 6700, NGR 6740, NGR 6880 NGR 6728, NGR 6729  
This course follows all MSN core content and 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, NGR 6140, NGR 6172, NGR 6700, NGR 6740, NGR 6880, NGR 6710, NGR 6715  
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)  
This course follows all MSN core content, Nursing Education Seminars, and the project proposal development course. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6880  Ethical Issues in Advanced Nursing Practice  
3 sh (may not be repeated for credit)  
This course will explore the philosophical and theoretical foundations of health care ethics. Additionally, this course will present multiple perspectives used in medical/nursing ethics decision-making. The history of and current issues in medical ethics will be explored along with relevant case studies.

**NURSING: SPECIAL Courses**

NSP 4185  Cultural Factors in Health and Illness  
3 sh (may not be repeated for credit)  
Influences of culture on health and health care beliefs and practices. Institutional health care policies which conflict with ethnic or cultural health beliefs will be discussed. Selected content and learning experiences will guide students who interact with clients in a variety of settings. Completion of Social Science component of General Studies is required prior to taking this course. Offered concurrently with NGR 5131; graduate students will be assigned additional work. Meets Multicultural requirement.

NSP 4275  Introduction to Critical Care Nursing  
3 sh (may not be repeated for credit)  
Examines the needs of the critically ill client. The integrity of the individual and family may be disrupted by a critical illness. The critical care nurse assists the individual and family to restore life processes to a state of dynamic equilibrium. Emphasizes use of scientific rationale and application of the nursing process in providing care to the individual client and family. Critical care concepts and skills for promoting client and family well-being are stressed. Permission is required.

NSP 4426  The Healthy Woman  
3 sh (may not be repeated for credit)  
Normal physiological and psychological changes that occur in women at differing phases of the life cycle. Topics include causes, prevention, and treatment of women’s most common health concerns, women’s health policy and research and cultural diverseness.

NSP 4435  Men’s Health  
3 sh (may not be repeated for credit)  
Through an interdisciplinary approach, addresses men’s health and perceptions of masculinity, differences in men’s health care, differences and disparities related to race, ethnicity, and social class. Topics include wellness, cardiovascular disease (including HIV), aging, violence, depression, infertility, erectile dysfunction, and impotence. Includes historical cases and epidemiological differences among groups. Completion of all General Studies requirements and Junior status is required. Offered concurrently with NSP 4435; graduate students will be assigned additional work.

NSP 4545  Drugs and the Human Body  
3 sh (may not be repeated for credit)  
Designed to introduce students to the dynamics of drug addiction from a physiological perspective. Legal and historical data related to current categories of drugs will be explored. Basic pharmacology and physiology; acute and chronic pathologic effects, and the physiological symptoms of withdrawal for commonly abused drugs will be a major focus.
PLA 3103  Legal Research and Writing
3 sh (may not be repeated for credit)
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.

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 3467  Bankruptcy and the Law
3 sh (may not be repeated for credit)
Basic concepts of bankruptcy law and procedure as well as state law collection remedies with special emphasis on the paralegal's role in both areas.

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 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.

PLA 3806  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.
PLA 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)
A cooperative effort between the UWF Legal Studies Program, the UWF Center for Learning Through Volunteer Efforts (CLOVE), and a public or private law-related office. Allows students the opportunity to focus on various learning objectives in a potential career field. Students work under the overall supervision of a licensed attorney or other legal professional at the placement site. Permission is required.

PLA 4025  Sex Discrimination Law
3 sh (may not be repeated for credit)
Examines the traditional role of women and men, historically and in the constitutional context, and the current legal status of men and women in specific areas such as employment, family law, sports, education and criminal law.

PLA 4155  Legal Advocacy
3 sh (may not be repeated for credit)
Prerequisite: PLA 3103
Emphasis is on improving legal writing ability through the use of practical writing assignments, including case briefs, legal correspondence, legal memoranda, and trial briefs. (Gordon Rule course: Wrtg).

PLA 4204  Civil Procedure
3 sh (may not be repeated for credit)
Civil litigation in the Florida and Federal courts. Covers substantive civil law, Florida and Federal rules of civil procedure and related matters from initial interview through pre-trial preparation including drafting of pleadings and preparing discovery.

PLA 4225  Trial Practice
3 sh (may not be repeated for credit)
Prerequisite: PLA 4204
A case through the trial process from opening statements through verdict.

PLA 4263  Evidence
3 sh (may not be repeated for credit)
Rules of evidence, including relevancy, hearsay, competency of witnesses and burdens of proof. The Federal Rules of Evidence are emphasized.

PLA 4277  Tort Law
3 sh (may not be repeated for credit)
In-depth study of the fundamental principles of negligence, intentional torts, strict liability, product liability, and vicarious liability.

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.

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 4309 and PLA 4308.

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.

PLA 4885  Constitutional Law for the Paralegal
3 sh (may not be repeated for credit)
Seeks an integration of the study of the Constitution with the pragmatics of the practice of law for the paralegal. Introduces the basic concepts of the Constitution in the light of how Constitutional issues arise in the modern practice of law and how to prepare to meet these arguments. Covers Supreme Court jurisdiction, how to read Supreme Court cases, separation of powers, Federalism, Commerce Clause, Due Process cases, First Amendment, Privacy, and Equal Production. Will be focusing on issues confronted in modern courts and law office.

PLA 4933  Special Topics in Legal Studies
3 sh (may be repeated for up to 12.0 sh of credit)
The study of special issues in legal studies. Subject matter will vary depending upon the issue(s) selected for study (e.g., philosophy of law).

PLA 4941  Legal Studies Internship
1-3 sh (may be repeated for up to 6.0 sh of credit)
Individual field experience in law related offices including private attorneys, public agencies, and alternative dispute resolution firms. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

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.

PHILOSOPHERS AND 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.
**PHILOSOPHY Courses**

PHI 2010  Introduction to Philosophy  
3 sh (may not be repeated for credit)  
Nature of philosophical thinking, discussion of fundamental and perennial problems of philosophy. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/VAL).

PHI 2100  Introduction to Logic  
3 sh (may not be repeated for credit)  
Methods and principles used in distinguishing correct from incorrect reasoning: definition, informal fallacies, traditional Aristotelian categorical logic. (Gordon Rule Course: Applied Math) and (General Studies Course: HUM/VAL).

PHI 2103  Critical Thinking  
3 sh (may not be repeated for credit)  
This course will introduce students to the fundamentals of critical thinking, argument, conceptual analysis and evidence. Students will learn how to think critically, read actively, and write persuasively across a variety of contexts. Appropriate for and applicable to any major.

PHI 2603  Ethics 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. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/VAL).

PHI 3130  Modern Logic  
3 sh (may not be repeated for credit)  
Training and skills of modern symbolic logic and their application to evaluation of arguments. Propositional logic, predicate logic.

PHI 3320  Philosophy of Mind  
3 sh (may not be repeated for credit)  
Introduces and examines proposed theories, from philosophy as well as the brain and behavioral sciences, regarding various aspects of the mind-body problem: mental representation, consciousness, mental imagery, innateness, the language of thought and the computer model of the mind, etc. (Gordon Rule Course: Wrtg).

PHI 3400  Philosophy of Science  
3 sh (may not be repeated for credit)  
Concepts and types of explanation used in sciences. May include differences between natural and social sciences, inductive reasoning and scientific explanation, and relation of science to society.

PHI 3452  Philosophy of Biology  
3 sh (may not be repeated for credit)  
Philosophy of biology focuses on evolutionary theory, examining such questions as "what is a gene", "what does natural selection select" and "what are the moral/social implications of evolutionary theory"?.

PHI 3500  Metaphysics  
3 sh (may not be repeated for credit)  
Metaphysics is the study of everything. Metaphysics seeks to uncover the fundamental principles that govern reality (and possible "realities"). Due to the vastness of the domain of metaphysical topics, we will restrict our attention to a small sample of topics-ones that are, or should be, near and dear to us for they bear on our lives as citizens of the universe. For example, do you have free will? Do you have a mind? Do numbers exist? Is time travel possible? What is time, anyway? Are there naturally occurring categories of stuff in the universe? Could the world have turned out differently than it did? A well rounded background in philosophy includes, among other things, conversance with central topics in metaphysics: this course aims to provide just that.

PHI 3600  Ethics  
3 sh (may not be repeated for credit)  
Philosophical theories concerning nature of the good, moral obligation, human excellence and application of ethical theory to problems of the individual in relation to society.

PHI 3640  Environmental Ethics  
3 sh (may not be repeated for credit)  
Introduces students to issues and problems in the field of environmental ethics. Theories of value are investigated in the effort to clarify the interrelations between humanity and nature. Discussions concerning the moral status of the non-human community will not be restricted to debates over value theory alone, but will also encompass metaphysical issues that bear upon environmental problems.

PHI 3670  Ethics  
3 sh (may not be repeated for credit)  
Philosophical theories concerning nature of the good, moral obligation, human excellence and application of ethical theory to problems of the individual in relation to society.

PHI 3700  Philosophy of Religion  
3 sh (may not be repeated for credit)  

PHI 3800  Philosophy of Art  
3 sh (may not be repeated for credit)  

PHI 3880  Philosophy of Film  
3 sh (may not be repeated for credit)  
Investigates the major theoretical and conceptual issues surrounding the art of film. Philosophical concepts underlying film theories such as realism, formalism, hermeneutics, and structuralism will be examined and applied to cinematography, editing, sound, and mise en scene. Other conceptual issues may include perception, representation, narrative, and ideology.

PHI 4300  Theory of Knowledge  
3 sh (may not be repeated for credit)  
Various theories of relation between human knowledge and reality; empirical, rationalistic, linguistic and phenomenological. (Gordon Rule Course: Wrtg).

PHI 4633  Biomedical Ethics  
3 sh (may not be repeated for credit)  
Designed to introduce students to the moral and conceptual foundations of ethics, to various ways of analyzing selected problems in the field, and applications of various theories to the professions.
PHILOSOPHY OF MAN AND SOCIETY Courses

PHM 3032   Environmental Humanities
3 sh (may not be repeated for credit)
Explores environmental concepts and concerns in the humanities. Topics will include historical expressions of the human-nature relationship in art, philosophy, religion, and science. Contemporary movements such as environmentalism, ecofeminism, ecotheology, and deep ecology will also be examined.

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. Offered concurrently with PHM 5026; graduate student will be assigned additional work.

PHM 5026   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. Offered concurrently with PHM 4020; graduate student will be assigned additional work.

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.

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 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 4104C   Creative Darkroom
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C
In-depth exploration of the use of darkroom techniques, procedures, and manipulations as an artistic means to the development of advanced techniques and aesthetic concerns in relation to the altered photographic image. Material and supply fee will be assessed.

PGY 4823   Advanced Digital Photography
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C, ART 3660C
An advanced class in image manipulation with emphasis on Adobe Photoshop, use of the film recorder, darkroom techniques, and photo history and theory. Designed for artists who are interested in learning how to manipulate photographic and computer created images into finished photographs. Manipulating images and controlling equipment and images, working between the darkroom and the computer, and integrating traditional photographic processes with experimental processes are included. Material and Supply fee will be assessed.

PGY 4940C   Photography: Personal Directions
3 sh (may be repeated for up to 9.0 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.
PHYSICAL EDUCATION ACTIVITIES:
OBJECT CENTERED, LAND Courses

PEL 1341   Beginning Tennis
3 sh (may not be repeated for credit)
Designed to introduce students to basic tennis strokes; rules; etiquette; terminology; basic tactics; strategy; and equipment.

PHYSICAL EDUCATION ACTIVITIES:
OBJECT CENTERED, LAND Courses

PEO 2031   Analysis of Individual Sports
3 sh (may not be repeated for credit)
Practicum in analytical techniques of skills involved in individual sports. Emphasis is on analysis, instructional design, and application of skills in a teaching situation.

PEO 3008   Sports Officiating II
3 sh (may not be repeated for credit)
Prerequisite: PEO 3001
Provides students an advanced look into sports and experiences related to the world and profession of sports officiating. Advanced principles, practices, responsibilities, techniques, and methods employed in sports officiating will be presented. Opportunities for employment in sports officiating will be discussed. Students will be required to observe officiating techniques and will be assigned officiating responsibilities in local sports programs.

PHYSICAL EDUCATION ACTIVITIES:
PERFORMANCE CENTERED, LAND Courses

PEM 1116   Body Shaping I
3 sh (may not be repeated for credit)
Designed to introduce body shaping exercises to students to help improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. This entry level class will cover yoga, Pilates, cardio karate, water aerobics, step aerobics, and basic training. Students will exercise using various types of equipment.

PEM 1120   Cardio Weightlifting and Endurance
3 sh (may not be repeated for credit)
Emphasizes the development of cardiovascular and muscular endurance through the use of free weights, weight machines, and cardio exercises. The exercises are based on the principle of circuit training through different exercise stations.

PEM 1121   Yoga I
3 sh (may not be repeated for credit)
Designed to train the student in basic Hatha yoga techniques. An ancient method of exercise as well as a method of spiritual meditation. The physical yoga training will occur during the class periods and there will be a learning module on-line for the student to complete. Each class will be a significant physical challenge. Students of all athletic abilities are encouraged to take the course.

PEM 1112   Yoga II
3 sh (may not be repeated for credit)
Prerequisite: PEM 1121
Designed to further the education and practice of Hatha Yoga. Advanced postures will be explored and the healing significance to each will be explained. Class meetings will be more strenuous than the Yoga I meetings. Strength moves and postures will be emphasized. Participants can enter Yoga II after completion of Yoga I or with the permission of the instructor. Students will be encouraged to develop their own potential abilities and style.

PEM 1141   Aerobic Conditioning
1 sh (may not be repeated for credit)
Designed to introduce aerobics to students to help improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. Topics will include a wide variety of beginning level high-impact and low-impact aerobic activities designed to tax both the beginner and advanced student.

PEM 1162   Latin Cardio Groove
3 sh (may not be repeated for credit)
A Latin dance class that focuses on building fitness through the blending of Latin dance styles from the Merengue to Salsa with fitness techniques. The class is designed for non-dancers, dancers, and athletes.

PEM 1165   Hula Fit I
3 sh (may not be repeated for credit)
A beginning level hula dance class that focuses on building fitness through the use of Hawaiian and Tahitian Hula dance training and fitness techniques. Designed for non-dancers, dancers, and athletes.

PEM 1445   BEGINNING T'AI CHI
3 sh (may not be repeated for credit)
Introduces the 24-Step Ying Yang Style T'ai Chi form. Focuses on the internal & external elements of the form, the most recent research on the health benefits of T'ai Chi, and the history of this exercise.

PEM 2114   Cycle Fit
3 sh (may not be repeated for credit)
Students will participate in indoor cycling group workouts. Students will learn the proper use of cycle bikes for a safe and effective workout. Students will learn basic instruction techniques that will lay the foundation for learning to become a Cycle Fit instructor.

PEM 2126   Yoga Fitness
3 sh (may not be repeated for credit)
Students will learn information on the background of yoga, the many different types of yoga and the health benefits of participating in yoga fitness. The class includes a physical component in which students will participate in yoga fitness classes, designed to slowly progress through various sequences and poses of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a yoga fitness instructor.
PEM 2127   Pilates
3 sh (may not be repeated for credit)
Students will participate in Pilates classes to condition the core
muscles of the body. The classes are designed to slowly progress
through various exercises of increasing difficulty as the semester
advances. In addition, the students will learn basic instruction
techniques that will lay the foundation for learning to become a Pilates
instructor.

PEM 2128   Pilates II
3 sh (may not be repeated for credit)
Continuation of the exercises of Joseph H. Pilates. Expanding on
the principles of movement within the Pilates environment from
intermediate to advanced mat exercises with the use of small props.

PEM 2176   Kick Boxing
3 sh (may not be repeated for credit)
Students will learn about the basic components of kickboxing and
the health benefits of participating in kickboxing classes. Students
will participate in kickboxing classes, designed to slowly progress
through various punches, kicks, and other combinations 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 kickboxing instructor.

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
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 2405   Rape Aggression Defense (R.A.D.) Self-Defense for
Women
3 sh (may not be repeated for credit)
Introduction to basic self-defense skills, escape and avoidance
strategies, offensive and defensive postures, defensive techniques and
simulated attacks. Includes an exploration of violence prevention and
victim abuse community services. Basic fitness principles including
strength, flexibility and cardiovascular fitness will be addressed.
Intended for women only.

PEM 2444   Shotokan Karate
1 sh (may be repeated for up to 3.0 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.

PHYSICAL EDUCATION ACTIVITIES:
PERFORMANCE CENTERED, LAND
Courses

PEP 2500   Non-Traditional Sports
3 sh (may not be repeated for credit)
Designed for potential physical education teachers and sports
administrators. Emphasis on development and understanding of skills
in the most popular non-traditional sports in physical education and
sports programs.

PEP 4113   Aging and Physical Performance
3 sh (may not be repeated for credit)
Provides an overview of the aging process and its effects on physical
performance, and the major effects of regular exercise on the aging
process. Emphasis will be placed on the understanding of the
physiological, psychological and social factors which affect movement
capabilities, the assessment of physical performance, and the
development of activity programs for the aging. Offered concurrently
with PEP 5118; graduate students will be assigned additional work.

PEP 5118   Aging and Physical Performance
3 sh (may not be repeated for credit)
Provides an overview of the aging process and its effects on physical
performance, and the major effects of regular exercise on the aging
process. Emphasis will be placed on the understanding of the
physiological, psychological, and social factors affecting movement
capabilities, the assessment of physical performance, and the
development of activity programs for the aging population. Offered
concurrently with PEP 4113; graduate students will be assigned
additional work.
PHYSICAL EDUCATION ACTIVITIES:
WATER, SNOW, ICE Courses

PEN 1121 Swimming (Beginning)
1 sh (may not be repeated for credit)
Equips students with basic water safety skills and knowledge to make them reasonable safe while in, on, or about the water. Introduction to swimming on front and back; additional training through skills designed to improve stamina and basic coordination. Other water sports will be introduced to add to the students' water experience. Graded on a Satisfactory/Unsatisfactory basis only.

PEN 1170 Water Aerobics I
3 sh (may not be repeated for credit)
Offers water exercise to develop physical fitness. In addition, offers instruction in a variety of water exercises and vigorous activities to develop cardiovascular and muscular endurance, flexibility and the promotion of body composition management.

PEN 1240 Beach Sports I
3 sh (may not be repeated for credit)
Designed to introduce beach sports to students in order to help improve overall physical fitness. This entry level class will cover sports including surfing, body boarding, windsurfing, ocean kayaking, beach volleyball, surf fishing, and jet skiing. Students will exercise using various types of beach equipment.

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.

PEN 2123 Fitness Swimming
3 sh (may not be repeated for credit)
Designed to refine strokes so the student can swim with more ease, efficiency, power, and smoothness over greater distances. Ideal for the swimmer who may wish to enter competition or achieve a higher fitness level.

PHYSICAL EDUCATION THEORY Courses

PET 2604 Basic Care and Prevention Principles of Athletic Training
3 sh (may not be repeated for credit)
Designed to provide an overview of proper roles and responsibilities of the National Athletic Trainers' Association Board of Certification (NATABOC), Certified Athletic Trainer (ATC) in providing quality health care to the physically active individual, as well as other health care professionals that comprise the sports medicine team. In addition, specific skills related to athletic health care will be addressed. A grade of "B" or better is required.

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 practicing and learning sports skills in a logical and progressive manner.

PET 3020 Foundations of Physical Education and Sport Management
3 sh (may not be repeated for credit)
For physical education and sport management majors. Designed to acquaint them with the knowledge and understanding related to the development of physical education and sport and its significance to modern society.

PET 3283 Sports Media
3 sh (may not be repeated for credit)
Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting.

PET 3330 Functional Kinesiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085, BSC 1085L
Provides an in-depth, hands-on approach to learning the human skeletal and muscular anatomy and how it relates to motion and mechanism of injury. Muscle origins, insertions, and actions will be learned through palpation.

PET 3640 Adapted Physical Education and Sport
3 sh (may not be repeated for credit)
Handicapping conditions and how physical activity is adapted to the special needs of individuals with these conditions.

PET 3660 Management Strategies in Athletic Training
3 sh (may not be repeated for credit)
Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications.
PET 3670  Athletic Training Clinical I
1 sh (may not be repeated for credit)
Prerequisite: BSC 1085, BSC 1085L, PET 2604
Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university’s athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site. Grade of “C” or better in BSC 1085, BSC 1085L, BSC 1086, BSC 1086L; and a “B” or better in PET 2604; Complete vaccination (or waiver), negative Tuberculosis (TB) Skin Test, physical examination by a licensed physician, verification that technical standards of the program are met, and fingerprint identification between May 20 and June 20; and Fifty hours of supervised observational experience under a NATABOC certified Athletic Trainer prior to August 1; Contact the Director of Athletic Training Education to obtain proper forms for meeting these requirements before deadlines.

PET 3671  Athletic Training Clinical II
1 sh (may not be repeated for credit)
Prerequisite: PET 3670
Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university’s athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site.

PET 3680  Protective Methods in Sports Medicine
3 sh (may not be repeated for credit)
Principles in the selection, fabrication, and application of athletic equipment, orthotics, protective taping and bracing, and splints that are commonly used in various athletic training settings. Additionally, selection and application of selected emergency medical equipment and ambulation techniques/equipment will be addressed. Permission is required.

PET 3771  Group Fitness Management
3 sh (may not be repeated for credit)
Examines trends and skills necessary to instruct and manage group fitness activities. Emphasis on design, marketing, and instruction of programs for various populations. Topics include Yoga, Pilates, Dance Fitness, Kickboxing, Spinning, and Cardio Weight Lifting.

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 4061  Motor Development and Skill Learning
3 sh (may not be repeated for credit)
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.

PET 4076  Balance and Mobility Training for Older Adults
3 sh (may not be repeated for credit)
Physical activity instruction for older adults. Emphasis will be on balance and mobility training. Topics include screening and assessment, core program principles and training methods, program design, leadership, and risk management.

PET 4213  Success in Sports
3 sh (may not be repeated for credit)
Success in Sports (SIS) is an integration of cross-boundary research documenting the determinants of success in sports. Special emphasis will be placed on elite athletic performance. Will be organized round theoretical accounts for the attainment of elite performance. In addition, the themes of Who in which profiles characteristics of elite athletes will be presented. Why in which inherited and acquired capacities responsible for elite performance will be presented, and How in which selected techniques to maximize training effects will be examined. Offered concurrently with PET 5216; graduate students will be assigned additional work.

PET 4251  Sociology of Sport
3 sh (may not be repeated for credit)
Examines sports using the sociological perspective. Focuses upon important, enduring issues within the sociology of sport in addition to a few controversial issues currently under debate. Through different theoretical perspectives, sport is analyzed as a key social institution that influences and is influenced by the larger society. Particular attention is paid to questions about the relationship between social stratification and sport.

PET 4310C  Mechanics of Human Motion
4 sh (may not be repeated for credit)
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 corresponding lab.

PET 4310L  Mechanics of Human Motion Lab
0 sh (may not be repeated for credit)
Co-requisite: PET 4310C
Corresponding lab for Mechanics of Human Motion.

PET 4361  Sport Nutrition and Weight Control
3 sh (may not be repeated for credit)
The relationship between physical activity and nutrition; their combined effects on optimal health, fitness, and sport performance.

PET 4380  Exercise Testing and Prescription
3 sh (may not be repeated for credit)
Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class.

PET 4380L  Exercise Testing and Prescription Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PET 4380
Co-requisite: PET 4380
Provides practical experience in body fat analysis, flexibility testing, basic exercise stress testing, the PWC - 170 Submaximal Aerobic Capacity test, and performance testing for 7 fitness parameters.
PET 4383C  Physiological Basis of Strength Development  
0-3 sh (may be repeated for up to 3.0 sh of credit)  
Prerequisite: PET 4380 or PET 4623  
Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 5389C; graduate students will be assigned additional work. Permission is required.

PET 4442  Physical Education in the High School  
2 sh (may not be repeated for credit)  
Co-requisite: PET 4928  
Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities in the high school setting.

PET 4605  General Medical Conditions  
2 sh (may not be repeated for credit)  
Prerequisite: PET 3670  
A specialized course dealing with the pathology, signs and symptoms, and management/treatment of selected general medical conditions affecting the physically active individual.

PET 4610  Evaluation Techniques of Athletic Injuries II  
3 sh (may not be repeated for credit)  
Prerequisite: APK 4305  
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the upper extremity and neck, as well as analysis of the throwing arm.

PET 4623  Rehabilitation of Athletic Injuries  
3 sh (may not be repeated for credit)  
Prerequisite: PET 2622  
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.

PET 4623L  Rehabilitation of Athletic Injuries Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: PET 2622  
Co-requisite: PET 4623  
Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

PET 4632  Therapeutic Modalities in Athletic Training  
3 sh (may not be repeated for credit)  
Prerequisite: PET 2622  
Co-requisite: PET 4632L  
Principles and proper use of therapeutic modalities. Topics include indication, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Permission is required.

PET 4632L  Therapeutic Modalities in Athletic Training Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: PET 2622  
Co-requisite: PET 4632  
Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries. Permission is required.

PET 4672  Athletic Training Clinical III  
1 sh (may not be repeated for credit)  
Prerequisite: PET 3671  
Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university’s athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site.

PET 4673  Athletic Training Clinical IV  
1 sh (may not be repeated for credit)  
Prerequisite: PET 4672  
Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university’s athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site.

PET 4691  Exercise Testing for Special Populations  
3 sh (may not be repeated for credit)  
Prerequisite: PET 4380  
Designed of exercise programs for individuals with special medical conditions such as rheumatoid arthritis, osteoporosis, spinal disorders, diabetes, obesity, heart disease, hypertension, and pregnancy.

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.

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 so 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 be repeated for up to 10.0 sh of credit)  
Prerequisite: PET 4710  
Ten weeks of supervised teaching in a public or private school. Student teaching assignments will be made by the HLES staff and are limited to the seven westernmost counties of the Florida Panhandle. Graded on a satisfactory/unsatisfactory basis only. Permission is required.
PET 4765  Theory and Practice of Coaching
3 sh (may not be repeated for credit)
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 4926  Practicum I: Elementary School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4720
Utilization of observation techniques with individual and small groups of pupils in the elementary school physical education setting. Students will observe teachers and assist with planning and organizing of class activities. A minimum of three hours per week will be spent in the setting.

PET 4927  Practicum II: Middle School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4730
Utilization of observation techniques with individual and small groups of pupils in the middle school physical education setting. Students will observe teachers and assist with planning and organizing all activities. A minimum of three hours per week will be spent in the setting.

PET 4928  Practicum III: High School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4442
Utilization of observation techniques with individual and small groups of pupils in the high school physical education setting. Students will observe teachers and assist with planning and organizing all activities. A minimum of three hours per week will be spent in the setting.

PET 5052  Motor Learning
3 sh (may not be repeated for credit)

PET 5216  Success in Sports
3 sh (may not be repeated for credit)
Success in Sports (SIS) is an integration of research documenting the determinants of successful sport performance. Special emphasis will be placed on the attainment of elite athletic performance. The course will be organized around theoretical accounts for the attainment of elite performance. Offered concurrently with PET 4213; graduate students will be assigned additional work.

PET 5389C  Physiological Basis of Strength Development
3 sh (may not be repeated for credit)
Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 4383C; graduate students will be assigned additional work. Permission is required.

PET 5553  Advanced Exercise Testing and Prescription
3 sh (may not be repeated for credit)
Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class. Course includes hands on experience in exercise testing with advanced equipment including hydrostatic weighing, environmental conditions, and blood glucose and lactate analysis. Course concludes with a student presentation of an exercise prescription based on testing results, medical and exercise history and risk stratification.

PET 5626  Rehabilitation of Athletic Injuries
3 sh (may not be repeated for credit)
Prerequisite: PET 2622
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 4623; graduate students will be assigned a research project as additional graduate work.

PET 5701  Systematic Observation in Sport and Physical Education
3 sh (may not be repeated for credit)
Students will learn to use a systematic approach to observe sport and physical education instruction. Emphasis will be on using published systematic observation instruments and the development of new instruments as objective tools for observation.

PET 5702  Advanced Management of Physical Education Programs
3 sh (may not be repeated for credit)
This course will prepare students to effectively use current curricular theory and administrative techniques to design and implement effective developmentally and instructionally appropriate physical education programs. Emphasis is placed on developing and implementing the instructional component of physical education programs.

PET 5708  Instructional Design in Physical Education
3 sh (may not be repeated for credit)
The aim of this course is to examine models of and current research related to physical education curriculum and instructional design in schools and PETE programs. This course will provide students with skills that will enable them to interpret, critique, and evaluate models and research of physical education curricula and instructional design in schools and PETE programs.

PET 5709  Advanced Curriculum in Physical Education
3 sh (may not be repeated for credit)
This course will assist students in developing knowledge and skills in the development and assessment of the physical education learning environment. An emphasis will be placed on current curricular theory and practices beyond those covered in undergraduate physical education programs.

PET 5805  Analysis and Supervision in Physical Education
3 sh (may not be repeated for credit)
This course prepares students to analyze instructional quality in physical education teaching and program design.
PET 6003  Advanced Theoretical Models of Health and Physical Education
3 sh (may not be repeated for credit)
Provides the student with knowledge of common theoretical models used in health and physical education and the skills to use the theories in practice.

PET 6015  Professional Issues in Physical Education
3 sh (may not be repeated for credit)
This course will assist students in understanding the professional issues and concerns that are an inherent part of the physical education profession and to use that understanding to effective and positive participation in the profession of teaching physical education.

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 6516  Advanced Assessment and Evaluation in Health and Physical Education
3 sh (may not be repeated for credit)
Prepares doctoral students to assess student learning in PreK-12 and higher education settings and to conduct effective program evaluations.

PET 6535  Strategic Planning and Instructional Design in PE and Health
3 sh (may not be repeated for credit)
Examines instructional models, planning theory, and current research related to physical education and health curriculum and instructional design in K-12 schools and in higher education. Introduces students to the process of planning and designing elementary, secondary, and higher education physical education and health programs.

PET 6706  Analysis of Research on Teaching in Physical Education
3 sh (may not be repeated for credit)
The purpose of this course is to introduce students to various streams of research in physical education and help them to critically analyze the quality of that research and its influence on the teaching and learning process in physical education.

PET 6707  Research on Physical Education/Teacher Education
3 sh (may not be repeated for credit)
This course is designed to examine the development, design, and application of the research in physical education/teacher education.

PET 6708  Research on Teaching Physical Education and Health
3 sh (may not be repeated for credit)
Provides students with skills to interpret, critique, and evaluate research in physical education and health teaching. Attention focused on the application of research within the context of physical and health education teaching.

PET 6716  Observation and Analysis of Teaching in Physical Education
3 sh (may not be repeated for credit)
Focuses on the study of self and others engaged in the process of interactive teaching and coaching, especially within the school context. Examines the teaching/coaching and managerial behaviors related to the learning and performance of physical education, to present data-based instruments for observing teachers, to provide guidelines for the systematic development of observation instruments to meet specific needs, and to begin to acquaint the student with the approaches to observing teaching/coaching, a brief introduction to qualitative observation will be given in this course.

PET 6774  Models of Teaching in Physical Education and Health
3 sh (may not be repeated for credit)
Provides theory and practice in teaching strategies designed to facilitate learner achievement in the cognitive, affective, and psychomotor domains.

**PHYSICAL OCEANOGRAPHY Courses**

OCP 4002  Physical Oceanography
3 sh (may not be repeated for credit)
Prerequisite: Either (PHY 2048, PHY 2048L) or (PHY 2053, PHY 2053L)
An introduction to concepts in physical oceanography. Topics include: observation of temperature, salinity, density, and currents; wind-driven and geostrophic currents; density-driven circulation; upwelling; surface waves, tides, and internal waves; air/sea interaction; and waves and coastal processes.

OCP 4550  Global Climate Change: Oceanic/Atmospheric Interactions
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311, BSC 2311L, GEO 3250, GEO 3250L
The role of the world ocean on climate in the present, past, and future. Causes and effects (like sea level change) of natural climate variability on time scales of millions to a few years. Interaction of ocean and atmosphere (greenhouse gases, currents, and wind). Discussions of impact of human activity and of future climate scenarios.

**PHYSICS Courses**

PHY 1020  Introduction to Concepts in Physics
3 sh (may not be repeated for credit)
An introductory survey of the natural laws of the universe. Presents the basic concepts associated with the scientific method, force and motion, matter and energy, electricity and magnetism, the atom and the solar system. Open to elementary education and other non-science majors. (General Studies Course: NS/LEC).

PHY 1020L  Introduction to Concepts in Physics Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PHY 1020
Co-requisite: PHY 1020
An introductory laboratory providing hands-on experience with basic experiments in physics involving the concepts of force and motion, matter and energy, electricity and magnetism, and the atom. Open to elementary education and other non-science majors. (General Studies Course: NS/LAB).
PHY 2048  University Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Linear and rotational motion of objects in 1, 2, and 3 dimensions, concepts of work and energy, oscillations and waves, heat and thermodynamics. (General Studies Course: NS/LEC).

PHY 2048L  University Physics I Lab
1 sh (may not be repeated for credit)
Selected experiments in mechanics, oscillatory motion, and heat. (General Studies Course: NS/LAB).

PHY 2049  University Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHY 2048, MAC 2312
Continuation of PHY 2048. Electrostatics and magnetism; basic electric circuits; optics; selected topics in modern physics. (General Studies Course: NS/LEC).

PHY 2049L  University Physics II LAB
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048L
Co-requisite: PHY 2049
Selected experiments in optics, electricity, and magnetism. (General Studies Course: NS/LAB).

PHY 2053  General Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1140 or MAC 1114 or MAC 2233 or MAC 2311
Mechanics, heat, waves, and sound. (General Studies Course: NS/LEC).

PHY 2053L  General Physics I Laboratory
1 sh (may not be repeated for credit)
Selected experiments in mechanics, oscillatory motion, and heat. (General Studies Course: NS/LAB).

PHY 2054  General Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHY 2053
Continuation of PHY 2053. Light, electricity and magnetism; elementary quantum theory; atomic, nuclear and particle physics. (General Studies Course: NS/LEC).

PHY 2054L  General Physics II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PHY 2053L
Co-requisite: PHY 2054
Selected experiments in optics, electricity, and magnetism. (General Studies Course: NS/LAB).

PHY 3013  Physics and Mathematics for Game Programming
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1140 or MAC 1114 or MAC 2233 or MAC 2311
Introduction to basic principles including linear and rotational motion with forces, friction, air resistance, gravity, collisions, waves, geometry, vectors, matrices, derivatives, applications to 2-D and 3-D transformations and rendering, 2-D and 3-D kinematics, and dynamics, simulation of water, waves, cars, hovercraft, ships and boats, aircraft and spacecraft.

PHY 3106  Modern Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 and either PHY 2049 or PHY 2054
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 3106
Co-requisite: PHY 3106
Selected experiments in modern physics and optics. Material and supply fee will be assessed.

PHY 3107  Modern Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHY 3106
Special topics in modern physics: quantum mechanics, atomic structure, molecular structure, atomic and molecular spectra, physics of solids, and band structure, nuclear structure, nuclear forces, radioactive decay and nuclear reactions, elementary particles, and fundamental interactions.

PHY 3220  Intermediate Mechanics
4 sh (may not be repeated for credit)
Prerequisite: PHY 2048 or PHY 2053
Co-requisite: MAP 2302
Particle mechanics in 1, 2 and 3 dimensions for various forces. Central forces and celestial mechanics. Systems of many particles. Rigid body dynamics. Introduction to Lagrangian methods.

PHY 3424  Optics
3 sh (may not be repeated for credit)
Prerequisite: PHZ 4113
Geometrical, physical, and modern optics. Polarization, interference, diffraction, holography, and optical fibers.

PHY 4323  Electricity and Magnetism I
3 sh (may not be repeated for credit)
Prerequisite: EGM 3512 or PHY 3220; MAS 4156 or PHZ 4113
Electrostatics, Gauss’s Theorem, magnetic fields, Biot-Savart Law, electromagnetic induction, introduction to Maxwell’s Equations, and electromagnetic waves.

PHY 4325  Electricity and Magnetism II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4323
Maxwell’s equations and electromagnetic waves in vacuum and in a medium, radiation from dipoles and antennas, transmission lines, wave guides, relativistic electrodynamics, Lienard-Weichert Potentials.

PHY 4445  Lasers and Applications
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049 or PHY 2054
Introduction to lasers and applications covering topics on nature of light, photons, elements of semi-conductor physics, modulation of light, displays, laser principles, types of lasers and their design, photodetectors, fiber optics, optical communications.
PHY 4513  Thermodynamics and Kinetic Theory
3 sh (may not be repeated for credit)
Prerequisite: PHY 2048, MAC 2313
Co-requisite: PHZ 4113

PHY 4604  Quantum Theory I
3 sh (may not be repeated for credit)
Prerequisite: PHY 3107, PHY 4323
This is the first semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics and is an introduction to the main concepts and tools for applying quantum mechanics to a variety of different problems.

PHY 4605  Quantum Theory II
3 sh (may not be repeated for credit)
Prerequisite: C- or better PHY 4604 Quantum Theory I
This is the second semester of 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.

PHY 4910  Independent Research
2 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: PHY 3106
Experimental or theoretical research on an individually assigned project. Permission is required. Material and supply fee will be assessed.

PHYSICS (CONTINUED) Courses

PHZ 1450  Exotic Physics
3 sh (may not be repeated for credit)
A non-mathematical assessment of the universe, its fundamental constituents, and its history. Focus will be on topics outside of commonplace phenomena, including elementary particle physics, the Big Bang, cold dark matter, extra dimensions, grand unified theory, and string theory. (General Studies Course: NS/LEC).

PHZ 3108  Intermediate-Level Physics Problems
1 sh (may not be repeated for credit)
Prerequisite: PHY 2049
Practicum in the art of solving problems across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core.

PHZ 4113  Mathematical Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Algebra of complex numbers, Taylor series, Fourier series, vector algebra and calculus, and curvilinear coordinates.

PHZ 4114  Mathematical Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302 and PHZ 4113
Special functions, boundary value problems, partial differential equations, series solutions, and integral transforms.

POLITICAL SCIENCE Courses

POS 2041  American Politics
3 sh (may not be repeated for credit)
Deals with the constitutional principles on which the republic was founded, the evolution of institutions which emerged after 1789, and the development of processes and policies in response to 20th Century challenges and changes in the political culture. (General Studies Course: SS/SOC).

POS 3033  Analyzing Political Issues
3 sh (may not be repeated for credit)
From the education of our children to the safety of our airlines, those who make the laws affect each of our lives on a daily basis. Rarely, however, is the public aware of the process by which new ideas become law of the reasons why archaic policy solutions are left unchanged. A survey of contemporary issues in American politics such as energy and the environment education, health care, welfare programs, crime and the economy. Throughout the semester, we will grapple with competing theories and competing methodologies for describing, analyzing, and evaluating what governments do in the political world in which we currently live.

POS 3072  Women and Politics
3 sh (may not be repeated for credit)
The evolution of women’s involvement in politics, as voters, activists, candidates, and public officials. The history of the women’s movement will be traced from the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Examines the contemporary participation of women in American political institutions, particularly the U.S. Congress and state legislatures. Outlines the character and substance of women’s participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 3122  Issues in American Government and Politics
3 sh (may not be repeated for credit)
Significant issues relative to the constitutional, organizational and political processes of American government and politics.

POS 3283  Judicial Process
3 sh (may not be repeated for credit)

POS 3413  The Presidency
3 sh (may not be repeated for credit)
We begin our exploration of the American presidency with a critical overview of the constitutional parameters of the executive office. What did our founding fathers expect from an executive? From there we examine how the presidential institution has evolved since the founding. The presidency definitely has a somewhat different place now in our separated system of branches sharing power than it once did. One of the most important features we address is how individual presidents have impacted the scope and direction of the office. We highlight the important role of person style, leadership, persuasion, and charisma as an influence on American government as a whole. Finally, we evaluate competing theories of presidential power to see how useful they are in explaining contemporary presidential politics.
POS 3424  The Legislative Process
3 sh (may not be repeated for credit)
Prerequisite: POS 2041
Politics of accommodation in formulating authoritative policies and general rules; emphasis on U.S. Congress and Florida Legislature in action; relations to other governmental processes.

POS 3453  Political Parties and Interest Groups
3 sh (may not be repeated for credit)
Prerequisite: POS 2041
Political parties, nominations, campaigns, elections, voting behavior, political recruitment, party organization and parties as managers of government. Roles and functions of interest groups.

POS 3602  The Founders' Constitution
3 sh (may not be repeated for credit)
Discussion of the debates behind the creation and adoption of the American Constitution. Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress.

POS 3608  Constitutional Law: Federalism and Separation of Powers
3 sh (may not be repeated for credit)
Offers an introduction to the fundamental features of the Supreme Court and its Constitutional jurisprudence. In particular, students will examine through a case-study approach the evolution of judicial review, separation of powers, powers of the President and Congress, the evolution of federalism, the national commerce power, and national taxing and spending powers.

POS 3624  Constitutional Law: Individual Rights and Privileges
3 sh (may not be repeated for credit)
Offers an introduction to Supreme Court's role in the protection of individual rights, due process, and the equal protection of the laws. In particular, students will examine through a case study approach the evolution of the Court’s jurisprudence in cases pertaining to civil rights and individual freedoms protected under the Constitution of the United States.

POS 3625  First Amendment Freedoms
3 sh (may not be repeated for credit)
Problem areas and doctrinal evolution in the judicial protection of First Amendment freedoms. Among specific subjects to be examined will be: free speech and press, free exercise of religion, state aid to religious schools, regulation of obscenity, freedom of association, and regulation of subversive activity.

POS 3734  Political Science Research Methods
3 sh (may not be repeated for credit)
Introduction to research methods in political science and the concepts associated with it. Surveys, polling, research design, sampling, data analysis and library research.

POS 3XX2  Women and Politics
3 sh (may not be repeated for credit)
This course traces the evolution of women's involvement in politics as voters, activists, candidates, and public officials. First, the history of the women's movement will be traced from the founding to the Senecan Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Secondly, this course will examine the contemporary participation of women in American political institutions. It will examine the character and substance of women's participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 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 4941  Internships
1-6 sh (may be repeated for up to 6.0 sh of 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 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  American Politics
3 sh (may not be repeated for credit)
Concept of politics: some of the principles that have led to the development of the American political system and the political order that has been created by the constitution.

POS 6704  Political Science Research Methods
3 sh (may not be repeated for credit)
Methods and logic of research in political science.

POS 6940  Internship
2-6 sh (may be repeated for up to 6.0 sh of credit)
The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-section firms, as an opportunity to gain practical experiences in a field of endeavor related to political science. In some instances, the internship could provide the intern with an opportunity for future employment. Although students are free to find their own internships, the Department will work with students in accomplishing this task. Eligibility requirements for an internship: 3.0 or higher GPA. Students should be enrolled in the Masters of Political Science Program, and have completed all core courses. Graded on satisfactory/unsatisfactory basis only. Permission is required.

POS 6971  Thesis
1-6 sh (may be repeated for up to 12.0 sh of credit)
Graded on satisfactory/unsatisfactory basis only. Permission is required.
POLITICAL THEORY Courses

POT 3103  Law and Politics in Literature
3 sh (may not be repeated for credit)
Discussion of law and politics within history’s most prominent literary works. Examination of the rule of law within political life in relation to character and plot development. Exploration in the ways in which literature illustrates the challenges posed by human nature to the just administration of law.

POT 4013  Ancient Masters of Political Thought
3 sh (may not be repeated for credit)
A survey of several of the seminal works by political theorists of the ancient and medieval period, including Plato, 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 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 if the gods and/or religion in political life.

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 4601  Modern Masters of Political Thought
3 sh (may not be repeated for credit)
Evaluates ideas about the origin, justification, organization, and performance of government by great thinkers from Machiavelli to the present. Offered concurrently with POT 5602; graduate students will be assigned additional work.

POT 5016  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 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 if the gods and/or religion in political life.

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.

PCB 2131  Cell Biology
4 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2046; either BOT 2010 or ZOO 1010

Introduction to cellular biology. Comprehensive study of prokaryotic and eukaryotic cells and their organelles with emphasis on structure and function and their relationships. Two terms of general chemistry are required prior to taking this course.

PCB 2131L  Cell Biology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: PCB 2131

Basic experimental techniques in cell biology. Material and supply fee will be assessed.

PCB 3063  Genetics
4 sh (may not be repeated for credit)
Prerequisite: PCB 2131, PCB 2131L; and either ZOO 1010 OR BOT 2010

Co-requisite: PCB 3063L

Origin, development and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3063L  Genetics Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 3063

Corresponding lab for Genetics.

PCB 3253  Developmental Biology
4 sh (may not be repeated for credit)
Co-requisite: PCB 3253L

Development from molecular, cellular and multicellular aspect; information flow, morphogenesis and differentiation in multicellular animals and plants. Material and supply fee will be assessed for corresponding lab.

PCB 3253L  Developmental Biology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB3253

Corresponding lab for Developmental Biology.
PCB 4043L  Ecology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 4043

Corresponding lab for Ecology.

PCB 4048  Estuarine Ecology
4 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L, CHM 2046, CHM 2046L, CHM 2210, CHM 2210L, PCB 4043
Co-requisite: PCB 4048L

Physical, chemical, and geological/sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 5445; graduate students will be assigned additional work.

PCB 4048L  Estuarine Ecology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: PCB 4048

Field and laboratory techniques in estuarine ecology, accompanies the lecture component of PCB 4048. Common field and laboratory techniques in estuarine ecology will be emphasized. Offered concurrently with PCB 5445L (Estuarine Ecology Laboratory); graduate students will be assigned additional work. Material and Supply Fee will be assessed.

PCB 4233  Immunology
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033

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
Co-requisite: PCB 4233

Selected experiments in immunology. Special permission required. Permission granted on the basis of fulfilling prerequisite. Material and Supply Fee will be assessed. Offered concurrently with PCB 5235L; graduate students will be assigned additional work.

PCB 4364  Marine Ecological Physiology
3 sh (may not be repeated for credit)

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 5319; graduate students will be assigned additional work.

PCB 4364L  Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PCB 4364
Co-requisite: PCB 4364

Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and Supply Fee will be assessed. Offered concurrently with PCB 5319L; graduate students will be assigned additional work.

PCB 4374  Tropical Ecology
1-3 sh (may be repeated for up to 9.0 sh of credit)

Five week course culminating in an eight day expedition to Costa Rica 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 5344; graduate students will be assigned additional work. Permission is required.

PCB 4442L  Wetlands Ecology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 4442

Corresponding lab for Wetlands Ecology.

PCB 4442  Wetlands Ecology
4 sh (may not be repeated for credit)
Co-requisite: PCB 4442

Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 5446; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fees will be assessed for corresponding lab.

PCB 4442L  Wetlands Ecology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 4442

Corresponding lab for Wetlands Ecology.

PCB 4482  Quantitative Ecology
3 sh (may not be repeated for credit)
Prerequisite: PCB 4043 and STA 2023

Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations, and communities. Methods of estimating abundance, survival, habitat selection, species diversity and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 5480; graduate students will be assigned additional work.
PCB 4522 Genetic Engineering
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020, PCB 3063, and BCH 3033.

Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 5525; graduate students will be assigned additional work.

PCB 4524 Molecular Biology
4 sh (may not be repeated for credit)
Prerequisite: BCH 3033, BCH 3033L
Co-requisite: PCB 4524L

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 5527; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of “C” or higher is required in prerequisite courses.

PCB 4524L Molecular Biology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB 4524

Corresponding lab for Molecular Biology.

PCB 4673 Principles of Evolution
3 sh (may not be repeated for credit)
Prerequisite: PCB 2131 and either BOT 210 or ZOO 210.

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 5675; graduate students will be assigned additional work.

PCB 4703 Human Physiology
3 sh (may not be repeated for credit)

Physiological mechanisms of various organ systems in the human body. Emphasis on transport mechanisms, renal function, hormones, respiration, cardiac function, muscle physiology, digestion, and immune systems.

PCB 4723 Comparative Animal Physiology I
3 sh (may not be repeated for credit)

General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals. Material and Supply Fee will be assessed. Offered concurrently with PCB 5727; graduate students will be assigned additional work.

PCB 4723L Comparative Animal Physiology I Laboratory
1 sh (may be repeated for up to 0.0 sh of credit)
Prerequisite: PCB 4723
Co-requisite: 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 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 PCB 5924; graduate students will be assigned additional work.

PCB 4970 Interdisciplinary Senior Research Project
3 sh (may not be repeated for credit)

The student will choose one faculty member from computer sciences and one faculty member from biology to serve as the research project committee. In close association with the committee, the student will design a research problem that generates biological data and utilizes a variety of programming skills, appropriate software and other computational skills in the design, data generation and data analysis steps, as well as in the construction of the formal report on the project. The primary purpose is to clearly demonstrate that the student is capable of integrating the knowledge they have acquired in biology with that which they have obtained in computer science. Senior status in the ITT program and permission is required. Graded on satisfactory/unsatisfactory basis only.

PCB 5235 Immunology Laboratory
3 sh (may not be repeated for credit)

Selected experiments in immunology. Material and supply fee will be assessed. Offered concurrently with PCB 5235L; graduate students will be assigned additional work.

PCB 5235 Immunology
3 sh (may not be repeated for credit)
Prerequisite: see course description

The basic principles of immunology will be addressed. Immune-mediated disease processes will be discussed. Offered concurrently with PCB 4323; graduate students will be assigned additional work. Prerequisites: CHM 2110 and CHM 2111L One of the following courses: MCB 3020 and MCB 3021L or Upper Division Cell Biology, and one of the two sets of courses with a grade of C or better. ZOO 1010 and ZOO 1011L, BOT 210 and BOT 210L, PCB 2131 and PCB 2131L.

PCB 5235L Immunology Laboratory
1 sh (may not be repeated for credit)

Selected experiments in immunology. 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)
Prerequisite: CHM 2210, STA 2023, and PCB 4043.
Co-requisite: PCB 5319L

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, osic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 4364; graduate students will be assigned additional work.
PCB 5319L  Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2210, STA 2023, and PCB 4043.
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, osmotic, 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
1-3 sh (may be repeated for up to 9.0 sh of credit)

Five week course culminating in an eight day expedition to Costa Rica 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 5445  Estuarine Ecology
4 sh (may not be repeated for credit)
Prerequisite: CHM 2045-2046, CHM 2210, PCB 4043, one upper level field course each in botany or zoology (e.g. ZOO 4254 or ZOO 4304).
Co-requisite: PCB 5445L

Physical, chemical, and geological/sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 4048; graduate students will be assigned additional work.

PCB 5445L  Estuarine Ecology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: PCB 5445

Field and laboratory techniques in estuarine ecology, accompanies the lecture component of PCB 5445. Common field and laboratory techniques in estuarine ecology will be emphasized. Offered concurrently with PCB 4048L (Estuarine Ecology Laboratory); graduate students will be assigned additional work. Material and Supply Fee will be assessed.

PCB 5446  Wetlands Ecology
4 sh (may not be repeated for credit)
Co-requisite: PCB 5446L

Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 4442; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fee will be assessed for corresponding lab.

PCB 5446L  Wetlands Ecology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB5446

Corresponding lab for Wetlands Ecology.

PCB 5480  Quantitative Ecology
3 sh (may not be repeated for credit)
Prerequisite: PCB 4043 and STA 2023

Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations and communities. Methods of estimating abundance, survival, habitat selection, species delivery and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 4482; graduate students will be assigned additional work.

PCB 5525  Genetic Engineering
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020, PCB 3063, and BCH 3033

Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 4522, graduate students will be assigned additional work.

PCB 5527  Molecular Biology
4 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: PCB 5527L

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both procaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 4524; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 5527L  Molecular Biology Lab
0 sh (may not be repeated for credit)
Co-requisite: PCB5527

Corresponding lab for Molecular Biology.

PCB 5675  Principles of Evolution
3 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or ZOO 1010 and PCB 2131.

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 I
3 sh (may not be repeated for credit)

General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals. 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 I Laboratory
1 sh (may be repeated for up to 0.0 sh of credit)
Prerequisite: PCB 5727

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 4723L; graduate students will be assigned additional work.

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)
Prerequisite: STA 4173

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 6943  Internship in Biotechnology
3-6 sh (may be repeated for up to 6.0 sh of credit)
An internship in biotechnology or related industry. Students will work on a problem related to management, development or administration of a program in biotechnology or to research in biotechnology. Prior completion of the graduate level core courses in the MS Biology/Biotechnology Fast Track is required. Internship is mandatory for students in the non-thesis Fast Track program. A written report on the internship experience will be presented orally to a committee selected by the student’s course supervisor. Graded on a Satisfactory/Unsatisfactory basis only.

PCB 6971  Thesis
1-6 sh (may be repeated for up to 12.0 sh of credit)
Graded on satisfactory/unsatisfactory basis only. Permission is required.

PSYCHOLOGY Courses

PSY 2012  General Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

A survey of methods, theories, and body of knowledge of contemporary psychology, including such topics as learning, motivation, sensation and perception, development, thinking, personality, social behavior, psychological adjustment, and methods of therapy. (General Studies Course: SS/BEH).

PSY 2023  Careers in Psychology
1 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Will provide students with an overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor degree in psychology, and career options for students who pursue a graduate degree in psychology. Skills required for library research, writing in the style of the American Psychological Association, and ethical and professional issues will be discussed.

PSY 2948  Service Learning Field Study I
1-3 sh (may be repeated for up to 4.0 sh of credit)
Prerequisite: PSY 2012

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.

PSY 3213  Research Methods in Psychological Science I
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023

The first course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a basic or descriptive understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.

PSY 3214  Research Methods in Psychological Science II
3 sh (may not be repeated for credit)
Prerequisite: PSY 3213

The second course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a basic or descriptive understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.
PSY 3215  Research Methods in Psychological Science II  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 3213  
The second course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a more complex or inferential understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.

PSY 3680  Positive Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012  
The scientific study of positive experience including a review of the historical and philosophical foundations of positive psychology and of its contributions to traditional research and practice areas in psychology. Specific emphasis is on the applied positive psychology perspective of the good life, health and well-being, positive psychology at work, clinical psychology and psychotherapy, and positive development across the lifespan.

PSY 3948  Service Learning Field Study II  
1-3 sh (may be repeated for up to 4.0 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 4.0 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.

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 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 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 6917  Supervised Research  
1-3 sh (may be repeated for up to 12.0 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 3sh 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 12.0 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 3sh 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 12.0 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.
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)
Prerequisite: (Either CLP 3144 or PPE 4003) or by permission of the instructor or an undergraduate degree in Psychology
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 2202 or PCO 6216
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: PCO 2202 or PCO 6216
Practical training in the process of clinical assessment in mental health counseling. Includes an introduction to the science of clinical assessment with a focus on the use of assessment techniques such as interviewing and psychological testing, in a professionally and ethically responsible manner. Includes an experiential component in which the student will develop beginning skills in the use of clinical assessment techniques, under supervision. Permission is required. Material and Supply Fee will be assessed.

PCO 6946 Practicum in Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166
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 9.0 sh of credit)

The student functions as a staff member and participates in the full range of clinical and professional activities of the internship site under supervision. A weekly university-based seminar will accompany field placement. Students in the 60sh M.A. Licensure Option must register for more than one term (total of 6sh required) and will complete a minimum of 850 hours of field placement, of which at least 240 will be in direct client contact. An internship paper and portfolio are required. Students in the 45sh M.A. degree program must complete 3sh with at least 300 hours of field placement. Graded on a satisfactory/unsatisfactory basis only. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PUBLIC ADMINISTRATION Courses

PAD 3003  Public Administration in American Society
3 sh (may not be repeated for credit)

Effective administration of government agencies, nonprofit organizations and other civil institutions is necessary if American democracy is to thrive. Addresses that challenge by examining the administration of governmental and nonprofit organizations using both traditional concepts (e.g. administrative theory, civil service systems, human relations movement) and more contemporary concepts (the new public administration, reinventing government).

PAD 4949  Cooperative Education
0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on a satisfactory/unsatisfactory basis only. Master level student and permission of director of Cooperative Education is required.

PAD 5107  Modern Public Organization Theory
3 sh (may not be repeated for credit)

Analysis of contemporary theories of organizations applicable to individual, group and system levels. Public organizations treated generically with examples and applications primarily drawn from the public and nonprofit sectors. May not be taken for credit by students having credit for MAN 5204 or SOP 5617.

PAD 5146  The Nonprofit Profession
3 sh (may not be repeated for credit)

Overview of the field of nonprofit organizations from a management perspective. Human resource management (including working with volunteers and professionals), public relations, board relations, daily operations, financial matters, and ethics.

PAD 5386  Leadership, Community, and Change
3 sh (may not be repeated for credit)

An action research based course that imparts the knowledge and competencies required for the promotion of community change based upon techniques for diagnosis of community needs, evaluation of related community resources, planning intervention based on needs and resources, and implementation and evaluation of program results, all in the context of best leadership practices.

PAD 5434  Leadership
3 sh (may not be repeated for credit)

Leadership styles and techniques of people in all levels of government-executive, legislative and administrative and in the community in general. Will attempt to help students assess their own strengths and weaknesses as leaders and determine a strategy for that development.

PAD 5605  Administrative Law
3 sh (may not be repeated for credit)

Explores the legal foundations and administration of public service administrative law. Focuses on the development of the American administrative state; legislative and judicial controls over agency discretionary power; the limits of judicial review; the legality of administrative action; agency rule-making and administrative discretion of public managers; and the liability of public managers for unlawful acts.

PAD 5635  Government Contract Law
3 sh (may not be repeated for credit)

Government contract law and ethics. Major provisions of the federal Procurement Integrity Act and general federal acquisition contract principles. Authority of contracting officers, delegation of contracting officer authority, and impact of delegation. Procedures for formation of government contracts and contract protest, government property fundamentals, government contract funding and fiscal matters, labor, social, economic, environmental concerns and fraud. Legal aspects of inspection, acceptance, delivery, warranties, changes, terminations and contract disputes.

PAD 5855  Acquisition Administration
3 sh (may not be repeated for credit)

Working knowledge of government contracting policies and procedures needed to evaluate and analyze methods of solicitation and awarding of federal government contracts in the most advantageous manner for the government client.

PAD 5862  Government Cost and Pricing Analysis
3 sh (may not be repeated for credit)

Government Cost and Pricing policies and procedures needed to prepare or evaluate and analyze cost proposals and costs incurred in Federal Government Contracts. Components of government cost and price analysis in federal contracting as defined by the Defense Contracting Auditing Agency (DCAA). Contracts from the contractor’s and the federal Contracting Officer’s perspective. Indirect costs and cost allocation bases. Methods utilized by the federal government to establish estimates of fair and competitive prices for goods and services.

PAD 5863  Defense Acquisition Mission Support Contracting
3 sh (may not be repeated for credit)

Policies, procedures, and methods utilized in planning or evaluating contracting actions for Department of Defense contracts from both contractor’s and the federal Contracting Officer’s views. Plan and evaluate contracting actions from the original identification of need to the final contract close out procedures. Sound business decisions when contemplating the purchase of goods and services.
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 6653  Human Resource Management
3 sh (may not be repeated for credit)
Basic ideas of scientific research and how it is used in public administration. Prepares the student as both a consumer and a potential producer of research.

PAD 6664  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 6946  Administration Capstone
3 sh (may not be repeated for credit)
Prerequisite: Completion of 21 semester hours of program coursework Culminating academic endeavor of students who are nearing completion of their MSA (PA/Leadership/ACA specialization) program. 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 applied research under the direction of a faculty member. The project should demonstrate the student’s ability to synthesize and apply the knowledge and skills acquired in his/her academic program to real-world issues and problems. The 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.

PAD 8980  Dissertation
1-6 sh (may not be repeated for up to 18.0 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.
PUBLIC HEALTH CONCENTRATION
Courses

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.

PHC 4109   Scientific Basis of Public Health
3 sh (may not be repeated for credit)
An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling. Offered concurrently with PHC 5123 (Scientific Basis of Public Health); graduate students will be assigned additional work.

PHC 4140   Public Health Planning and Analysis
3 sh (may not be repeated for credit)
This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public’s health. The course is also intended to stimulate 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. Offered concurrently with PHC 5351; graduate students will be assigned additional work.

PHC 5050   Biostatistics for Public Health
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
This is a second course in statistics for students in the Public Health and Allied Health programs. 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 prerequisite 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 Informatics Certificate Program.

PHC 5123   Scientific Basis of Public Health
3 sh (may not be repeated for credit)
An overview of scientific principles of public health and their application to public health problems with significant state, national and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling. Offered concurrently with PHC 4109 (Scientific Basis of Public Health); graduate students will be assigned additional work.
PHC 5351  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 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.

PHC 5355  Fundamentals of Occupational Safety and Health
3 sh (may not be repeated for credit)
Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 4341; graduate students will be assigned additional work.

PHC 5356  Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)
Prerequisite: At least one undergraduate or graduate course in a health-related field is preferred, but not required.
An on-line multidisciplinary approach to the study of industrial hygiene intended for a wide range of health-related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 4340; graduate students will be assigned additional work.

PHC 5410  Social and Behavioral Sciences in Public Health
3 sh (may not be repeated for credit)
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.

PHC 6000  Epidemiology for Public Health Professionals
3 sh (may not be repeated for credit)
To enable the student to understand epidemiology as a discipline and how epidemiology, as the basic science of public health, provides information for disease prevention and treatment.

PHC 6005  Disease Transmission in the Urban Environment
3 sh (may not be repeated for credit)
Focuses on disease transmission in the urban community and how interaction between human behaviors and environmental changes contribute to the spread of disease in urban areas in developed and developing countries.

PHC 6015  Epidemiological Study Design and Statistical Methods
3 sh (may not be repeated for credit)
Experimental, quasi-experimental, observational, survey, surveillance, and qualitative study designs will be reviewed. Methods for reliable and valid data collection and analysis will be covered. An overview of statistical methods for the analysis of public health data will be provided.

PHC 6150  Public Health Policy
3 sh (may not be repeated for credit)
The course explores general principles of planning, management, and evaluation of health care programs, policies and interventions implemented by public and private organization. The basic conceptual frameworks underlying healthcare decision making and assessment of the financing, organization, outcomes and delivery of healthcare services are presented.

PHC 6194  GIS Applications in Public Health
3 sh (may not be repeated for credit)
Provides an overview of various computer applications in public health and introduces modern software systems for analyzing health-related data. Fundamentals of data collection, statistical analysis, interpretation, and reporting results are covered. Technology-based implications for legal and ethical issues are also addressed (including documentation, security, and regulatory requirements). Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching; Training in a health care-related field at the Associate's or Bachelor's level is required. Material and Supply Fee will be assessed.

PHC 6251  Disease Surveillance and Monitoring
3 sh (may not be repeated for credit)
Disease surveillance and monitoring is the systematic collection, analysis, interpretation, and dissemination of data for use in prioritizing, planning, implementing, and evaluating health programs, activities and practices in the United States as well as in other developed and developing countries. Will focus on these fundamental processes and procedures which are utilized to investigate and track infectious and communicable diseases as well as non-infectious chronic diseases.

PHC 6300  Environmental Health
3 sh (may not be repeated for credit)
Students will be given an overview of the chemical, physical, and biological hazards present in our living and working environment and their effects on human health.

PHC 6309  Environmental Health in the Urban Community
3 sh (may not be repeated for credit)
Today, a majority of people live in cities and by 2050 over 75% of the world’s population will be urban dwellers. Will provide an overview of the major environmental health issues facing urban areas and their inhabitants. Covers the physical, chemical, and biological hazards present in urban areas and their effects on human health.
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, forensics concepts, legal issues, and promoting prevention strategies to avoid future accidents.

PHC 6946  Internship in Public Health  
3 sh (may be repeated for up to 6.0 sh of credit)  
Prerequisite: Successful completion of all 5 MPH core courses.
An internship in a public health agency or setting. Under supervision by an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor, students will work on a problem related to management, development or administration of a program in public health or related to research in public health. A student may only request a waiver for up to 3 hours of the internship credit. A written report on the internship experience is required and the report must be presented before a committee of MPH faculty. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

PUBLIC POLICY Courses

PUP 4004  Public Policy  
3 sh (may not be repeated for credit)  
Study of how public policy is made, especially at the national level. Focus is on current issues and events including the role of the President, Congress, interest groups, bureaucracy and the public. Extensive use of current news sources in the print, television, and internet media.

PUP 4044  Analytic Techniques for Public Policy  
3 sh (may not be repeated for credit)  
Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 5045; graduate students will be assigned additional work.

PUP 4244  Natural Resource Policy  
3 sh (may not be repeated for credit)  
The history of natural resource and environmental policy in the United States and the institutions and processes of American natural resource and environmental policy making. Addresses the ongoing transformations in these broader institutions and processes and considers their linkage to the formulation of public policy as it relates distinctly to natural resources and the natural environment.

PUP 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.

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 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-taped exercises.

PUR 4600  Communication Management
3 sh (may not be repeated for credit)
Prerequisite: PUR 3100
Capstone course for public relations and advertising majors. Emphasis on case study analysis and the management of integrated communication programs. Senior status required.

PUR 4800  Communication Research
3 sh (may not be repeated for credit)
Prerequisite: STA 2023, PUR 3000 (Public Relations majors only);
Primary and secondary research methods useful to qualitative and quantitative communication research, applied communication inquiry, and integrated public relations/advertising communication campaigns. Organizational Communication majors are not required to fulfill the prerequisites.

PUR 4801  Public Relations Campaigns
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000, 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.

PUR 4930  Current Issues and Trends in Public Relations
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000, PUR 3100
Focuses on a range of current issues facing the public relations profession from a theoretical and practical perspective. Exploration of selected topics such as emerging trends in the use of technology, diversity and multiculturalism, increased use of social media, and environmental issues impacting the organization. Senior status within the PR major required.

PUR 6408  Emerging Topics in Public Affairs
1.5 sh (may not be repeated for credit)
Examines the complex communication relationships between and among businesses, nonprofit organizations, government agencies, and the media. Focuses on the strategic communication applications in each of these areas.

QUANTITATIVE METHODS IN BUSINESS Courses
QMB 6305  Quantitative Methods for Business
3 sh (may not be repeated for credit)
Prerequisite: MAC 2233 and STA 2023
QMB 6305 is a prerequisite for MAR 6815, ECP 6705 and MAN 6511. Provides students with quantitative skills that are required to make business decisions. These skills involve using statistical, forecasting and estimation techniques. Students are expected to use the subject matter for problem sets and exams.

RADIO/TELEVISION Courses
RTV 3200  Television Production
3 sh (may not be repeated for credit)
Studio operations and equipment; theoretical and technical aspects of television production.
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.
RTV 3301  Broadcast Journalism
3 sh (may not be repeated for credit)
Principles and techniques of radio and television news operation. Credit.
RTV 3320  Electronic Field Production
3 sh (may not be repeated for credit)
Prerequisite: RTV 3200
Principles and techniques of basic electronic field production for video, film, CD-ROM, and the Internet.
RTV 3400  History of Television
3 sh (may be repeated for up to 0.0 sh of credit)
Examines the entire television industry from its inception to present day and its social, economic and financial ramifications on societies, especially their inter-relations. The course will also review, compare and contrast both the domestic and international television industries with regard to technical applications and advances, programming, production, and developmental theory and where the industry may be headed.
RTV 3700  Broadcast Management and Regulation
3 sh (may not be repeated for credit)
Management issues in the broadcast industry and governmental regulations that apply to that industry.
RTV 3942  Practicum: Television News
3 sh (may not be repeated for credit)
Prerequisite: RTV 3200, RTV 3320, JOU 2100
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, RTV 3320
Applies skills from basic television production and electronic field production in non-news production formats for broadcast on WUWF-TV Channel 4. Production formats include, but are not limited to: interview programs, musical productions, remote event coverage, dramatic anthology, all in either live or taped settings. Will be structured as an actual job. Students will participate in every production setting over the course of a semester in every capacity.

RTV 4323 Documentary Television Practicum
3 sh (may not be repeated for credit)
Prerequisite: RTV 3200, RTV 3320
Introduces, defines, and exposes the student through hands-on approach to documentary style television productions by exploring the six foundational styles: Poetic, Expository, Observational, Participatory, Reflexive, and Performative.

READING EDUCATION Courses

RED 3310 Literacy Instruction for the Intermediate Learner
3 sh (may not be repeated for credit)
Materials and methods for teaching basic reading and related study skills; emphasis on teaching mastery of decoding skills, conducting guided reading activities, utilizing a wide variety of reading materials in the classroom and relating basic reading skills to content area instruction; includes observation/participation in school settings.

RED 3324 Reading/ESOL Methods and Instruction
3 sh (may not be repeated for credit)
Theory and methods for teaching reading at the middle and secondary school level; emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading and integrating reading and study skills into content area instruction across the middle and secondary school curriculum.

RED 4542C Assessment and Differentiated Instruction in Reading
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314 and RED 3310
Prepares the pre-service teacher in the area of individualized reading and language arts assessment. Individualizing instruction in the areas of language arts (speaking, listening, reading, and written composition) are major components.

RED 5047 Florida Online Reading Professional Development
3 sh (may not be repeated for credit)
Designed to deliver current, relevant, scientifically-based, and classroom-based information in reading to pre K-12 teachers. Also designed with teachers’ and students’ needs in mind.

RED 5515 Classroom Reading Assessments
3 sh (may not be repeated for credit)
Prerequisite: RED 6116, RED 6060 for reading education majors, or RED 5047 for Reading Endorsement Students
An exploration into the theories and appropriate assessment practices by classroom teachers.
RED 6866 Practicum in the Clinical Teaching of Reading
3 sh (may not be repeated for credit)
Prerequisite: RED 6240
Designed to provide a supervised clinical experience in reading assessment and tutoring. Students will conduct a thorough diagnostic screening and provide one-to-one tutoring for a struggling reader.

RED 6911 Action Research: Reading
3 sh (may not be repeated for credit)
Prerequisite: RED 6546
An in-depth exploration of the major components related to reading instruction. Includes an action research project. Students will identify a classroom-based reading issue, review the related literature, design and implement an action plan, evaluate, and report the results.

RED 6940 Reading Practicum
3 sh (may not be repeated for credit)
Prerequisite: RED 5515, RED 6240
Practical experience in increasing student reading performance with the utilization of appropriate strategies and materials. Emphasizes assessment based instruction for individual and groups of students to prevent, identify, and remediate reading difficulties.

RED 7247 The Organization and Administration of Reading Programs
3 sh (may not be repeated for credit)
Explores the role of the reading supervisor in organizing and implementing reading programs from the pre-elementary through the college level.

RELIGION Courses

REL 1300 Introduction to World Religions
3 sh (may not be repeated for credit)
Broad understanding of the major religious traditions. May include Judaism, Christianity, Hinduism, Buddhism, Islam and others. Comparative study of similarities and differences among these traditions.

REL 3142 New Perspectives on the Religious Self
3 sh (may not be repeated for credit)
Focus on selected understandings of the nature of the self as a religious being. Various models of the self will be examined.

REL 3145 Women and Religion
3 sh (may not be repeated for credit)
An examination of the complex relationships that exist between women and religion. The roles and status of women in Indigenous Traditions, Hinduism, Buddhism, Judaism, Christianity, and Islam with special attention paid to fundamentalist forms of religion. The methodology is both comparative and cross-cultural. An important feminist value is to privilege the "experiences of others." To that end, we will hear the voices of women themselves. Beginning with the feminist challenge to male, disembodied, and immutable images of the divine, we will discover how religion both limits and empowers women. Meets Multicultural Requirement. Gordon Rule course (Writing).

REL 3158 Religious Experience
3 sh (may not be repeated for credit)
Religious experiences and phenomena from the standpoint of particular approaches in psychology and religion. Such topics as human suffering, wholeness, and mystical awareness will be discussed using the thought of Becker, Keen, Freud and others. (Gordon Rule Course: Wrtg).

REL 3213 Studies in Hebrew Scriptures/Old Testament
3 sh (may not be repeated for credit)
Analysis of literature of ancient Israel, interrelation of faith and history, evolution of ethical monotheism from primitive beginnings to oracles of prophets. (Gordon Rule Course: Wrtg).

REL 3243 Studies in the New Testament
3 sh (may not be repeated for credit)
Exegetical study of literature of the early Christian community with emphasis on life and teaching of Jesus and letters of Paul from variety of theological perspectives. (Gordon Rule Course: Wrtg).

REL 3310 Philosophies of the East
3 sh (may not be repeated for credit)

REL 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

REL 4420 Contemporary Theology
3 sh (may not be repeated for credit)
Types of theology: fundamentalism, liberalism and neo-orthodoxy. Current trends: religious atheism (Nietzsche, Altizer), secular theology (Bonhoeffer, Cox), process theology (Whitehead, Chardin), existential theology (Tillich, Bultmann), personalism (Bertocci, 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 4493 Science, Religion, and Nature
3 sh (may not be repeated for credit)
Explores Eastern and Western religious conceptions of the natural world, and relates them to scientific ways of knowing. Includes a survey of major scientific discoveries and theories that both challenge and inform religious belief, including cosmology, evolution, and global change. Includes an overview of ecumenical dimensions of Eastern and Western spiritual experience and expression. Emphasis is placed on integrating and harmonizing scientific and religious understandings to develop a meaningful, contemporary worldview.

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.
SCIENCE EDUCATION Courses

SCE 4310  Teaching Science in the Elementary School
3 sh (may not be repeated for credit)
Processes of science requisite to teaching elementary school science; emphasis upon structure and objectives of school science programs, methods of instruction assessment, and experimental programs.

SCE 4320  Teaching Science in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Methodology requisite to the effective teaching of science at the middle school level; emphasis on methods and objectives of the middle school science program, use of lab experiences with middle school students, computer strategies and software evaluation, evaluating student progress, current research in science education, and practice teaching experiences; includes participation in school setting. Admitted to Teacher Education and permission is required.

SCE 4362  Special Methods in Teaching Secondary and Junior High School Science
3 sh (may not be repeated for credit)
Curriculum skills, methods, and philosophy of science teaching. Lecture, discussion, and field experience. Assessment of science competency in area of specialization. Meets Florida state requirements for Special Methods in Science. Twenty four semester hours of science courses are needed prior to taking this course. Permission is required.

SCE 5445  Physical Science in Motion: Classroom Applications
3 sh (may not be repeated for credit)
Participants use simple software simulations. Physical science activities focus on relationships between gravity, friction, aerodynamic principles and energy. Three free simple-to-use software programs from NASA Glenn are featured and: 1) control the shape, size, and inclination of the airfoil and atmospheric conditions in which you are "flying"; 2) teach aerodynamics by controlling the conditions of a big league baseball pitch (speed, spin, etc.); and 3) model the design and testing of jet engines, flight conditions, and engine size. Applications to "force and motion" are another focus. The software and material will teach concepts simply, visually and in an exciting manner.

SCE 5807  Forces and Motion
3 sh (may not be repeated for credit)
Engages participants in reviewing the history and development of concepts associated with why things move and how they move in the mechanical world. Simple demonstrations and hands-on inquiry activities connect each week's content area with real-world examples.

SCE 5834  Earth's History
3 sh (may not be repeated for credit)
Examines the geological history of Earth, including its physical origins and development as well as the origins and evolution of life on the planet. Is cross-disciplinary when appropriate and is especially designed for secondary school teachers who are currently teaching or who are preparing to teach courses in middle and high school Earth science. Combines technical explanations of geologic processes and phenomena in addition to an explanation of the nature and mechanisms that drive evolution. The original course content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics presented during the course.

SCE 5836  Earth in the Solar System
3 sh (may not be repeated for credit)
Examines the Earth's "place in space" and its relationship to the Sun and other planets of the solar system. Is cross-disciplinary when appropriate and is especially designed for secondary school teachers who are currently teaching or who are preparing to teach courses in middle and high school Earth science. Combines technical explanations of astronomical processes and phenomena with an explanation of the physical composition of the other planets, moons, and celestial objects found in our solar system. The original content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics presented during the course.

SCE 5837  Aquatic Ecology for Teachers
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 if appropriate and is 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.

SCE 5842  Aquatic Ecosystems engages participants in reviewing and comparing aquatic environments, investigating the dynamics of ecological interactions, and addressing the impact of human activity. Each week's content addresses main science concepts, illustrative examples, inquiry activity ideas, resource extensions, opportunities to learn more, and connections to teaching and learning in grades 4-9 science classrooms.
SCE 5853  Chemistry Through Inquiry
3 sh (may not be repeated for credit)

The course focuses on the National Science Education content standards for physical science and "science as inquiry" for K-4 and 5-8. As teachers do hands-on science investigations, read science background, and participate in discussion they will enhance their own scientific content knowledge and develop an inquiry-based approach to science teaching.

SCE 5875  Ocean Science
3 sh (may not be repeated for credit)

Examines the physical, chemical, and biological factors that influence the ocean. It supports content with a discussion of the methods through which students can achieve ocean-related content outlined in the National Science Education Standards. It uses text-based content, participant interaction, analysis of current research, web search, and implementation of activities to improve the skills of teachers.

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.

SCE 6265  Science Instruction in the Middle and Secondary School
3 sh (may not be repeated for credit)

Co-requisite: 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.

SCE 6446  Energy and the Environment Workshop
3 sh (may not be repeated for credit)

Activities related to the teaching of energy through a thematic approach. Discussions and activities about the production, transmission, and distribution of energy, alternative energy sources, energy conservation, and the use of a hands-on/minds-on, collaborative approach to teaching are included. Students are required to complete field trips as scheduled.

SCE 8980  Ed.D. Dissertation in Biological Science
1-18 sh (may be repeated for up to 36.0 sh of credit)

Major independent research in biological science education designed especially for candidates in the Ed.D. curriculum and instruction program with specialization in science. Dissertation will reflect intensive research produced by the student and collaboratively developed with the student's graduate committee. Graded on satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required. Permission is required.

SOCIAL ORGANIZATIONS Courses

SYO 3100  The Family
3 sh (may not be repeated for credit)

Social and psychological aspects of interpersonal relationships within the family. Emphasis on modern problems of family.

SYO 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.

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.

SOCIAL PSYCHOLOGY Courses

SOP 3004  Social Psychology
3 sh (may not be repeated for credit)

Survey of theory, method, and research results in areas of social psychology, such as attitude formation and change, social perception/cognition, impression formation, social influence, interpersonal attraction and relationships, aggression and pro-social behavior, and group dynamics. Application in areas such as work or health behavior, legal settings, or environmental psychology may also be included.

SOP 3730  Psychology, Culture, and Society
3 sh (may not be repeated for credit)

Prerequisite: PSY 2012

The study of social processes within a cultural context. Topics include non-verbal behavior, the construction of social reality, communication, personal relationships, social influence, discrimination and prejudice, group dynamics, organizational culture and behavior, implications for health and wellness.

SOP 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 2.0 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 6069  Advanced Social Psychology
3 sh (may not be repeated for credit)

Prerequisite: SOP 3004; or an undergraduate degree in Psychology

Contribution of social psychology to understanding of human behavior: emphasis is on theory and research in major areas such as attitude, perception and attribution, attraction, altruism, group behavior, etc.

SOP 6668  Organizational Change and Development
3 sh (may not be repeated for credit)

Prerequisite: INP 6397 or 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. May not be taken for credit by students having credit for MAN 6285.
SOP 6669  Advanced Organizational Psychology
3 sh (may not be repeated for credit)
Seminar reviewing much of the recent research literature in areas of organizational psychology, including leadership, motivation, job performance, job satisfaction, role behavior, 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.

SOCIAL STUDIES EDUCATION Courses

SSE 4113  Social Studies for Elementary Teachers
3 sh (may not be repeated for credit)
Instructional methods and materials for teaching a contemporary program in social studies in the elementary school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies.

SSE 4324  Teaching Social Studies in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
Instructional methods and materials for teaching a contemporary program in the social studies, including classroom management, citizenship education, global education and current trends and approaches to teaching social studies; includes observation/participation in middle and secondary school settings.

SSE 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.

SSE 6326  Teaching Social Studies in Middle and Secondary Level Education
3 sh (may not be repeated for credit)
Prerequisite: SSE 4113
Co-requisite: 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.

SOCIAL WORK Courses

SOW 2192  Understanding Relationships in the 21st Century
3 sh (may not be repeated for credit)
Human relationships with a focus on the interrelatedness and effects of underlying theoretical principles as they relate to individual, family and group interactions. (General Studies: SS/BEH).

SOW 3103  Human Behavior in Social Environment
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085 or BSC 1086 or BSC 1005
Social personality and cognitive development, normal and abnormal, normative and non-normative crisis and gender issues with an emphasis on cultural diversity. Importance of social work intervention and treatment with individual, family, and community.

SOW 3113  Human Behavior in Organizations and Communities
3 sh (may not be repeated for credit)
Introduces the future practitioner to the concept of change agent within organizations, institutions, and communities. Prepares the student with academic concepts on community organization as a prelude to the practice course. Emphasis is placed on the student’s ethical responsibilities to the client, organizational structure of human service agencies and the elements common to them. Students will understand structural and organizational differences between profit and nonprofit agencies. Students will experience organizational obstacles to planned change. The dynamics of gender, class, race, ethnicity, and sexual orientation are examined in relationship to how they are played out within the organizational context.

SOW 3203  Introduction to the Field of Social Work
3 sh (may not be repeated for credit)
Survey of the social work profession from its roots to contemporary practice with a descriptive focus on its values, knowledge bases, skills, and fields of practice. Emphasis is on generalist social work and social policy structures which sustain society. Introduces the relationship of social problems to social policy and to social service delivery systems.

SOW 3313  Work With Individuals and Families
3 sh (may not be repeated for credit)
One of four practice courses designed to prepare the student for generalist social work. Emphasis is on the values, knowledge, and skills necessary for effective assessment and intervention on the micro level, and is reflected in several areas, including the worker/client relationship, assessment, strategies and implementation techniques, the social worker’s use of self, the phases of the helping process, and evaluation. Using the systems approach, emphasis is placed on social, cultural, familial, and environmental influences on the functioning of individuals and families. Permission is required.

SOW 3314  Case Management
3 sh (may not be repeated for credit)
Designed to help students develop a general overview of case management and how it is defined and practiced in a variety of settings, such as juvenile justice programs, mental health programs, and nonprofit community agencies.

SOW 3322  Work With Groups
3 sh (may not be repeated for credit)
One of a series of four courses designed to prepare a student for generalist social work practice. The student will acquire the knowledge base, values and skills necessary for working with groups at the beginning professional level. The focus will be on developing the knowledge base, values and practice skills needed to use the problem solving approach to work with diverse populations within various types of groups. Stages of groups and activities that can enhance the group process will be explored. Permission is required.
SOW 3350 Interviewing and Recording
3 sh (may not be repeated for credit)
Practice in interviewing techniques and in precise, descriptive, and accurate writing techniques for practitioners in social work, psychology, and other helping professions. (Gordon Rule Course: Wrtg).

SOW 3503 Introduction to Generalist Practice
3 sh (may not be repeated for credit)
Prerequisite: SOW 3203, 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 3620 Practice with Culturally Diverse Populations
3 sh (may not be repeated for credit)
Explores the differences of experience, needs and beliefs of culturally diverse population within our society, and provides a theoretical foundation from which to develop differential assessment and implementation skills essential to culturally sensitive practice. Patterns, dynamics and consequences of discrimination, economic deprivation and oppression are discussed with special emphasis on the impact for people of color, women, gay and lesbian, and disabled populations. Meets Multicultural requirement.

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 3905 Directed Study Course
1-3 sh (may be repeated for up to 99.9 sh of credit)
Permission of Instructor only.

SOW 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.0 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SOW 4111 Adolescents At Risk
3 sh (may not be repeated for credit)
Explores environmental and societal factors that contribute to risky behaviors of adolescents such as substance use, delinquency, sexual activity, and violent behavior, and others. Characteristics of high risk and low risk youth are discussed including the relationship of these characteristics to adolescent development. Prevention, intervention, and treatment approaches are discussed.

SOW 4141 Social Aspects of Family Violence
3 sh (may not be repeated for credit)
Introduces basic concepts, principles, and methods for understanding and identifying family violence. Topics include an historical overview; the impact of domestic violence on the community and on the woman, children, and man involved; the identification of emotional, physical, and sexual aspects of abuse; safety planning and levels of lethality; an introduction to effective intervention.

SOW 4232 Analysis of Social Service Policy
3 sh (may not be repeated for credit)
Prerequisite: SOW 4403
Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills.

SOW 4233 Human Diversity and Social Justice
3 sh (may not be repeated for credit)
Prerequisite: SOW 4232, 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.

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.

SOW 4303 Prevention and Intervention Strategies for Children Ages 0-5 and Their Families
3 sh (may not be repeated for credit)
Prerequisite: SOW 3103, SOW 3113, SOW 3203, SOW 3313, SOW 3322, SOW 3350, SOW 3503, SOW 3620, SOW 4232, and SOW 4403
Co-requisite: SOW 4522
Generalist practice methods for children 0-5 and their families. An overview of developmental, psychological, and social issues. Strategies for prevention and intervention. Offered concurrently with SOW 5309; graduate students will be assigned additional work.

SOW 4403 Social Work Research Foundations
3 sh (may not be repeated for credit)
Prerequisite: SOW 3350 Interviewing and Recording
An introduction to research methodology in the evaluation of social work practice and program evaluation.

SOW 4510 Social Work Field Instruction
1-9 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: SOW 3103, SOW 3113, SOW 3203, SOW 3313, SOW 3322, SOW 3350, SOW 3503, SOW 3620, SOW 4232, and SOW 4403
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.
SOW 4522   Senior Seminar
3 sh (may not be repeated for credit)
Prerequisite: SOW 3103, SOW 3113, SOW 3203, SOW 3313, SOW 3322, SOW 3350, SOW 3503, SOW 3620, 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 5532   Foundation Year Field Instruction and Integrative Seminar
3 sh (may not be repeated for credit)

Provides an understanding of social functioning throughout all phases of the life cycle by examining the interaction between the biological determinants of growth and development and various systems of our social environment. Focus is on the interrelatedness and effects of individuals, families and groups and of genetic, emotional and societal systems and values that foster or impede social functioning.

SOW 5105   Human Behavior in the Social Environment I
3 sh (may not be repeated for credit)

Provides an understanding of social functioning throughout all phases of the life cycle by examining the interaction between the biological determinants of growth and development and various systems of our social environment. Focus is on the interrelatedness and effects of individuals, families and groups and of genetic, emotional and societal systems and values that foster or impede social functioning.

SOW 5106   Human Behavior in the Social Environment II
3 sh (may not be repeated for credit)

Familiarizes students with the academic concepts of macro assessment and community organization through planned change processes. Emphasis is placed on the social worker's role as a change agent, strategies and models for community organizing, and ethical responsibility to the client, organization, community, and the profession.

SOW 5218   Analysis of Social Service Policy
3 sh (may not be repeated for credit)
Co-requisite: SOW 5404

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 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.

SOW 5305   Generalist Practice I
3 sh (may not be repeated for credit)

First course in a two course sequence which covers generalist social work practice. Basic generalist practice skills with individuals, families, and groups. Basic communications and interviewing skills are introduced and practiced. Tasks and skills required in the beginning practice: preparation, engagement, first interviewing skills, and case documentation. The process of collecting relevant social, psychological, cultural, economic, and biological data from individuals, families, and groups and analyzing data for problem formulation. Historical and contemporary perspectives of the case management process are highlighted focusing on advocacy roles. Practice skills and the application of those skills through the use of interactive exercises and role plays.

SOW 5309   Prevention and Intervention Strategies for Children Ages 0-5 and Their Families
3 sh (may not be repeated for credit)

Generalist practice methods for children 0-5 and their families. An overview of developmental, psychological, sociological and legal issues. Strategies for prevention and intervention. Offered concurrently with SOW 4303; graduate students will be assigned additional work.

SOW 5324   Generalist Practice II
3 sh (may not be repeated for credit)

Introduces the knowledge base, values and skills necessary for working with groups at the beginning professional level. Develops the knowledge base, values, principles, and practice skills needed to work with diverse populations within various types of groups. Stages of groups and activities will be explored that can enhance the group process and its purpose towards achieving its objectives.

SOW 5404   Social Work Research Foundations
3 sh (may not be repeated for credit)

An introduction to research methodology in the evaluation of social work practice and program evaluation.

SOW 5532   Foundation Year Field Instruction and Integrative Seminar I
3 sh (may not be repeated for credit)

Integrates foundation curriculum social work course content and 400 hours field education experience in order for students to function as generalist social work practitioners. Issues related to social work values and ethics, diversity, social and economic justice, populations at risk, human behavior and the social environment, social welfare policy and services, practice and research are examined within the context of the student's field education experiences. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.
SOW 5629  Human Diversity and Social Justice
3 sh (may not be repeated for credit)
Examines the impact of social, economic and political environments on
diverse populations specifically race, gender, age, ethnicity, culture,
class, sexual orientation, religion, and physical and mental ability.
Integrates the key elements of the profession of social work through
the filter/lens of social, political and economic justice.
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.
SOW 5745  Dimensions of Death and Dying: Special Topics
3 sh (may not be repeated for credit)
Assists the student, both personally and professionally 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.
SOW 5757  The History, Philosophy, and Theory of Social Work
Practice
3 sh (may not be repeated for credit)
Introduces the student to the Social Work Profession and the
history, philosophy, theory, and development of social work practice.
Perspectives on social welfare, social work as a profession, and core
concepts will be introduced. Content will cover aspects of social work
practice including poverty, child welfare, criminal justice, health and
mental health, homelessness, and aging.
SOW 6125  Psychopathology for Social Work
3 sh (may not be repeated for credit)
Patterns of human behavior and psychosocial functioning commonly
conceptualized as psychopathology. Addresses such concepts as
function, mental health, mental illness, normality and abnormality.
Prevalent categories of psychiatric disorders are considered as to their
labeling process, differentiating characteristics, explanatory theories
and relevance for social work practice.
SOW 6344  Social Work Practice with Families in Communities
3 sh (may not be repeated for credit)
Prepares students for advanced practice that strengthens family
systems and their functioning within the larger social system. Macro
level problems are considered from a global perspective as well as in
context of local community partnerships and regional perspectives.
Describes man-made and natural disasters and their impact on
families within the larger ecological context of community.
SOW 6348  Theories and Models of Social Work Practice
3 sh (may not be repeated for credit)
Theoretical foundations and practice techniques which underlie
social work practice. Course critically examines the theoretical bases,
underlying assumptions, and empirical status of different models
with specific emphasis on how they address socio-cultural issues
with diverse populations and align with the values of the social work
profession.
SOW 6432  Evaluation of Social Work Practice
3 sh (may not be repeated for credit)
Prerequisite: SOW 4403
Practice evaluation using simple subject design and program
evaluation that is grounded in social science and social work research
literature. Particular attention will be paid to the ethical issues
of conducting research, especially with oppressed or vulnerable
populations.
SOW 6475  Applied Research
3 sh (may not be repeated for credit)
Prerequisite: SOW 5404, SOW 6432
Students plan, design, and conduct a research project in conjunction
with the student's field placement. Special emphasis is on the conduct
and use of empirical research in applied settings.
SOW 6535  Advanced Year Field Instruction and Integrative Seminar I
3 sh (may not be repeated for credit)
Prerequisite: Foundation Year coursework or Advanced Standing
Status
Integrates theoretical models and concepts with practical experience
gained in concurrent field education. Integrates skills and knowledge
acquired through the entire social work curriculum. Graded on a
Satisfactory/Unsatisfactory basis only.
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. Graded on a
Satisfactory/Unsatisfactory basis only.
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 6618  Clinical Practice I
3 sh (may not be repeated for credit)
Builds on the knowledge base of generalist social work practice.
Emphasizes advanced assessment of clients across the life span,
trauma assessment, and beginning evaluation of practice skills.
Treatment planning with individuals, families, and groups is stressed.
Building on the generalist practice base for analyzing and interpreting
bio-psycho-socio-spiritual content, interpreting and implementing
professional values and ethics, and utilizing the professional helping
relationship. Introduces an advanced clinical practice base of clinical-
community social work.
SOW 6619  Clinical Practice II
3 sh (may not be repeated for credit)
Clinical decision-making and advanced clinical interventions by building on a generalist approach to social work practice. Utilizes the clinical community concentration prerequisites to examine normal development and psychopathology as a foundation for advanced practice. Examines specific theories and models of intervention with individuals, families, and groups that can be tailored to client needs. Addresses work with clients across the life cycle with diverse issues. The impact of poverty, racism, sexism, and manifestations of institutionalized oppression upon clients and workers are addressed at an advanced level. Methods of enhancing adaptive functioning and resiliency are emphasized. Students will be expected to demonstrate clinical expertise, an understanding of social work ethics and values, incorporate client preferences, utilize critical thinking skills, and apply empirical evidence to practice decisions.

SOCIOLOGY OF DEMOGRAPHY/AREA STUDIES/SOCIOLOGICAL MINORITIES 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 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.

SOCIOLOGY: GENERAL Courses
SYG 2000  Introduction to Sociology
3 sh (may not be repeated for credit)
Fundamental principles concerning social relationships, social interaction and social structure. (General Studies Course: SS/SOC).
SYG 2010  Current Social Problems
3 sh (may not be repeated for credit)
Major social issues affecting individuals in groups in modern industrial societies. Not open to students with Social Problems as lower division course. (General Studies Course: SS/SOC).

SPANISH LANGUAGE Courses
SPN 1120C  Spanish I
4 sh (may not be repeated for credit)
For students with no knowledge of Spanish or with less than two years of high school Spanish. Lays a foundation for speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.
SPN 1121C  Spanish II
4 sh (may not be repeated for credit)
Continuation of SPN 1120C. Continues development of skills in speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 2200  Intermediate Reading and Translation
3 sh (may not be repeated for credit)
For students who have previous experience in Spanish, but are not yet prepared for advanced work in the language.
SPN 2210  Intermediate Composition & Conversation
3 sh (may not be repeated for credit)
Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200.
SPN 3400  Advanced Stylistics
3 sh (may not be repeated for credit)
Increasing and improving language skills. Classes conducted in Spanish. Meets Multicultural requirement.
SPN 3410  Composition and Conversation
3 sh (may not be repeated for credit)
Skill in writing and speaking Spanish.
SPN 4500  Spanish Civilization
3 sh (may not be repeated for credit)
Cultural and historical background of Spain. Meets Multicultural requirement.
SPN 4520  Latin American Culture and Civilization
3 sh (may not be repeated for credit)
Cultural and historical backgrounds of Latin American literature. Meets Multicultural requirement.
SPN 4955  Intensive Spanish Abroad
1-5 sh (may be repeated for up to 5.0 sh of credit)
Supervised and individualized foreign language experience abroad tailored to each student's individual proficiency needs in language and culture. Instruction will be in Spanish. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Multicultural requirement.

SPANISH LITERATURE: WRITINGS Courses
SPW 3190  Topics in Hispanic Literature
3 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: SPN 2200
An introduction to the literary analysis of selected Hispanic Texts, using readings and film, discussions and writing assignments. Normally offered in Spanish (it could also be taught in English), it will be aimed at intermediate to native Spanish speakers with an interest in Hispanic--Spanish and/or Latin American--literature. It will enhance language skills and foster an appreciation of Hispanic culture, adding the challenge of applying critical analysis to selected texts in Hispanic literature.

SPEECH COMMUNICATION Courses
SPC 2300  Introduction to Interpersonal Communication
3 sh (may not be repeated for credit)
The course focuses on close relationships involving friends, coworkers, family members, and romantic partners. Students will learn about the stages of relationship development as well as skills and strategies to enhance self-awareness, identify relational goals, manage conflict, share personal information, understand common gender differences, manage power differences, interact with bosses and coworkers, and more.
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. (General Studies Course: HUM/VAL).

SPC 3301  Interpersonal Communication
3 sh (may not be repeated for credit)
Emphasizes the link between interpersonal communication skills and relationship building in personal and professional contexts. Includes components on self awareness, impression management, rapport building, developing intimacy, managing conflict, ethical use of interpersonal power, diversity issues, leadership, and using technology to facilitate interpersonal communication. Involves hands-on service learning project that provides the opportunity to practice interpersonal skills in a professional setting.

SPC 3593  Practicum in Forensics
1-3 sh (may be repeated for up to 10.0 sh of credit)
Active forensics participation through library research, topic analysis, discussion, practice and travel to intercollegiate tournaments. Permission is required.

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 4513  Argumentation and Debate
3 sh (may not be repeated for credit)
Provides studies in the theories of argumentation and debate, with many opportunities for practice. Students will be introduced to a variety of formal and informal debate formats. Theories of argumentation drawn from classical & contemporary sources, with application to practice, including: arrangement/construction, evaluation, oral delivery, and appreciation of forms or argument with consideration of the logical, ethical, and persuasive force. The content includes coverage of the fundamental principles and practices of critical reasoning and public logic. Designed for students interested in legal, academic, professional or political realms of communication and advocacy.

SPC 4540  Propaganda and Persuasion
3 sh (may not be repeated for credit)
Explores persuasion theory of persuasive activity at a variety of turns in the modern world. Special focus is on social movements, political campaigns and advertising. Seeks to gain a clearer understanding of how persuasive strategy works, from where it emerges and why and how we are affected by it.

SPC 4650  Political Communication
3 sh (may not be repeated for credit)
An introduction to the field of political campaign communication, including advertising, speech making, debates, and journalist coverage of campaigns. Course dedicates a significant amount of attention to strategic communication in campaign contexts.

SPC 4651  Rhetoric of Social Movement
3 sh (may not be repeated for credit)
The nature and function of the rhetoric of social movements in American society. Social movements are communication events and processes in which persuasion is pervasive. They rely on communication events to retain their relevance in the society. An exploration into social movement development and function from a communication perspective. Special focus is lent to the nature of argumentation, language and ideology.

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, cluster criticism, feminist criticism, genre criticism, ideological criticism, metempsychic criticism, narrative criticism, pentadic criticism, generative criticism.

SPC 4710  Intercultural Communication
3 sh (may not be repeated for credit)
Considers the important role of context (social, cultural, and historical) in intercultural interactions. The goal is to develop an understanding of the process of communicating across cultural boundaries. Operates from the premise that culture is both a producer and product of communication, and, therefore, an appreciation of communication processes is an essential factor in promoting positive intercultural relations.

SPC 6646  Strategic Approaches to Presentational Speaking
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.

SPORTS MANAGEMENT Courses

SPM 3004  Introduction to Contemporary Sport Management
3 sh (may not be repeated for credit)
Students will study the size and scope of the sport industry, as well as the contemporary issues, strategies, and tactics employed in the successful practice of sports management.
SPM 3024  Current Issues in Sports Management  
3 sh (may not be repeated for credit)  
Exposes student to current issues in the sports industry and will provide the students with an in-depth knowledge of the various issues in sport. Students will be prepared to become agents of change in the sport industry through discussions and debates on the relevant issues in the sports world.

SPM 3104  Sport Facility and Event Management  
3 sh (may not be repeated for credit)  
Provides students with an introduction to the planning and management of sports facilities. Focuses on elements of planning, design, and management, while examining functions related to maintenance, security, operations, and evaluation. Will emphasize problem solving utilizing class discussions, guest speakers, and facility site visitations as feasible.

SPM 3306  Sports Marketing  
3 sh (may not be repeated for credit)  
Topics and issues involved in the promotion and marketing of sport 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.

SPM 3403  Sport 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.

SPM 4003  Sport Management Careers Seminar  
3 sh (may not be repeated for credit)  
In depth exploration of the sport management career field for students who have completed at least 30 sh of major courses. Students will have an opportunity to learn and practice job seeking and professional/career development skills. Should be taken the semester prior to internship as students will complete their internship application as part of the course.

SPM 4503  Economic Issues in Sport  
3 sh (may not be repeated for credit)  
Prerequisite: SPM 3004, and either ECO 2013 or ECO 3003  
This course is designed to examine major economic issues in the sport industry and introduce the methodology of economics that can be used to analyze these issues.

SPM 4505  Principles and Issues in Sport Finance  
3 sh (may not be repeated for credit)  
Prerequisite: SPM 3004, ACG 3082 and either ECO 2013 or ECO 3003  
This course covers major financial issues related to sport management. Students will gain knowledge necessary to success fully financially manage budget, account, ascertain funding, and navigate other complex sport finance issues. The specific financial implications of managing a sport related business is covered.

SPM 4604  Governance in Sport  
3 sh (may not be repeated for credit)  
Prerequisite: SPM 3004  
A study of the growing spread and development of sport throughout the world as well as how the governing bodies involved affect the structure, organization, and delivery of sport.

SPM 4723  Sport Law and Risk Management  
3 sh (may not be repeated for credit)  
An integration of the various areas involved in sport pertaining to legal liability issues and risk management techniques in coaching, facility management, and sport management.

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  
Fundamental statistical concepts. Probability, inference, estimation, hypothesis testing. (Gordon Rule Course: Applied Math) and (General Studies Course: MAT/MO).

STA 3162C  Applied Statistics  
4 sh (may not be repeated for credit)  
Prerequisite: MAC 2311  
Inferential statistics from an applied point of view. Probability and sampling distributions, confidence intervals and hypothesis testing, ANOVA, correlation, simple and multiple linear regressions. SAS computer techniques. Lab required. (Gordon Rule Course: Applied Math).

STA 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 5178; graduate students will be assigned additional work. (Gordon Rule Course: Applied Math).

STA 4321  Introduction to Mathematical Statistics I  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2312  
Probability, conditional probability, distributions of random variables, distribution of functions of random variables, limiting distributions, multivariate probability distributions. (Gordon Rule Course: Applied Math). Offered concurrently with MAP 5XX1 (Introduction to Mathematical Statistics I); graduate students will be assigned additional work.

STA 4322  Mathematical Statistics II  
3 sh (may not be repeated for credit)  
Prerequisite: STA 4321  
Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 5326; graduate students will be assigned additional work. (Gordon Rule Course: Applied Math).
STA 4664  Introduction to Statistical Quality Control
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
Covers control charts, capability indices, and related topics used in process control. (Gordon Rule Course: Applied Math).

STA 5166  Special Topics in Statistics
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 3162C
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)
Prerequisite: STA 2023
A second course in statistics for students in Mathematical Sciences Graduate Program. Topics covered include analysis of variance, regression analysis, non parametric 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 to additional work.

STA 5206  Analysis of Variance
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 3162C
Statistical methods useful in design and analysis of experiments in physical, biological, and social sciences. Analysis of variance including randomized blocks, Latin square, factorial arrangements, regression. Offered concurrently with STA 4202. Graduate students will be assigned additional work.

STA 5207  Applied Regression Analysis
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 3162C
Regression analysis, simple and multiple; procedures for selection of a best set of regressors.

STA 5326  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 4322; graduate students will be assigned additional work.

STA 6246  Design and Analysis of Experiments
3 sh (may not be repeated for credit)
Prerequisite: STA 5176, STA 5206 or equivalent
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)
Prerequisite: STA 4321 and STA 2023 or STA 3162C
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)
Prerequisite: STA 4321 and MAS 3105 or MAS 5145
Mathematical probability models and distributions; linear programming models; the simplex method; duality and sensitivity analysis; inventory models; queuing theory; simulation.

STA 6608  Operations Research II
3 sh (may not be repeated for credit)
Prerequisite: STA 6607
Decision theory and games, PERT/CPM, Markovian decision process, integer programming, dynamic programming, reliability and maintenance.

STA 6666  Statistical Quality Control I
3 sh (may not be repeated for credit)
Prerequisite: STA 4321 and STA 2023 or STA 3162C
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 4321, STA 5206, or STA 5207
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 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 8.0 sh of credit)
Graded on satisfactory/unsatisfactory basis only. Permission is required.

STUDENT DEVELOPMENT 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.
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 be repeated for up to 3.0 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.

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.

SLS 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 3.0 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.

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.

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 5105 Corporate Income Tax
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earnings, distributions, reorganizations, liquidations and Subchapters. Offered concurrently with TAX 4012; graduate students will be assigned additional work.

TAX 6065 Tax Data Bases, Research and Procedure
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
Interpretative sources of tax laws and their interrelationships plus an analysis of federal tax procedures at the judicial and administrative level.

TAX 6405 Estate Gift and Trust Taxation
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
Estate and gift taxation and Subchapter J with emphasis on family tax planning.

TAX 6875 Special Topics in Taxation
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
An advanced course in taxation of individuals and business entities. Intended for students interested in advanced tax issues. Emphasis is placed on topics usually not covered in other tax courses. Ideally suited for exploring the constantly changing federal tax law. Permission is required.

TEACHING ENGLISH AS A SECOND LANGUAGE Courses

TSL 4080 ESOL Principles and Practices
3 sh (may not be repeated for credit)
Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 5085; graduate students will be assigned additional work.

TSL 4081 Empowering Teachers to Teach English to ESOL Students
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This is the second of two courses designed to provide students with information and skills concerning the education of students who have limited English proficiency. The course addresses cross-cultural understanding and methods of teaching English to speakers of other languages. It also focuses on the role of applied linguistics in second language teaching and the role and function of assessment of ESOL students.

TSL 4140 ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This course builds on knowledge and skills developed in the prerequisite course. It will extend understanding of various ways that language and culture affect second language learners' participation and learning in K-12 classrooms. This course covers the study of curriculum and materials development for English Language Learners (ELL), reviews the educational theories of language acquisition, learning and literacy, and provides class participants with knowledge of ESOL methodologies. This course will introduce ESOL program models and materials and will cover the integration of language and content. Instruction of second language learners and practical application of course material will be emphasized throughout the class. Offered concurrently with TSL 5142; graduate students will be assigned additional work.

TSL 4251 Applied Linguistics
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This course aims to provide the basis linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar considered necessary to teach English to English Language Learner (ELL). Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. Students will participate in the process of applying the linguistics, psycholinguistics, and sociolinguistics to teaching English as a second language with emphasis on pronunciation, intonation, structural analysis, morphophonemic, and decoding from print to sound. In addition, students will apply the knowledge gained to perform contrastive analysis and will use error analysis on the interference problems found with the ESOL students. The course addresses cross cultural understanding and methods of teaching English to speakers of other languages but focuses on the role of applied linguistics in second language teaching and the assessment of ESOL students. Offered concurrently with TSL 5250; graduate students will be assigned additional work.

TSL 4340 Methods of Teaching ESOL
3 sh (may not be repeated for credit)
Prerequisite: TSL 4140
Based on the fundamentals acquired in the prerequisite course, students will learn the history of approaches in language learning and teaching, transitional methods and the most current methods and approaches in teaching English as an additional language. Students will also examine the approaches that are believed to be most effective in teaching English Language Learners (EELs) with and emphasis on the four language modes as well as the development of vocabulary in L2. Offered concurrently with TSL 4345.

TSL 4441 Testing and Evaluation
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate widely used language tests, construct and administer language tests, and examine how test scores are used in educational settings. The use of authentic assessment for English Language Learners and the unique role of language will be a focus. Offered concurrently with TSL 5440; graduate students will be assigned additional work.
TSL 4520  Cross Cultural Communication and Understanding
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
Develops awareness and understanding of the cultures represented by
the different language minorities within Florida and the nation; provides
an emphasis on research that will enable participants to plan and
implement curriculum, instruction, and assessment activities to meet
special needs of linguistically and culturally diverse students.
TSL 5085  ESOL Principles and Practices
3 sh (may not be repeated for credit)
Designed to provide students with information and skills concerning
the education of students who are ELL (English Language Learners).
Addresses the 25 ESOL standards. Focuses on methods of teaching
ESOL, curriculum and materials, cross cultural understanding, applied
linguistics, and testing and evaluation of ESOL students. Offered
concurrently with TSL 4080; graduate students will be assigned
additional work.
TSL 5142  ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)
Covers the study of curriculum and materials development for second
language learners. It reviews the educational theories of language
acquisition, learning and literacy. It provides class participants with
knowledge of the various types of curricula, and the problems and
solutions inherent in standardized curricula. Will also introduce ESOL
program models currently used in Florida. Students will receive the
necessary skills to select and use appropriate ESOL instructional
strategies, materials, and classroom use, and to develop their
own ESOL instructional units, materials and technologies. Offered
concurrently with TSL 4140; graduate students will be assigned
additional work.
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.
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 and
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.
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.
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.

THEATRE PERFORMANCE AND
PERFORMANCE TRAINING 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.
TPP 2250L Musical Theatre Vocal Theory Lab
1 sh (may be repeated for up to 3.0 sh of 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 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
Co-requisite: TPP 3650
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 3155
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 be repeated for up to 12.0 sh of 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 8.0 sh of credit)
Co-requisite: THE 3243 or TPP 3250
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
Directing for stage. Lectures and discussions followed by practical application of procedures.

TPP 3650 Script Analysis
3 sh (may not be repeated for credit)
Prerequisite: THE 2000
Co-requisite: THE 2000
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 4113 Acting III
3 sh (may not be repeated for credit)
Prerequisite: TPP 1282, 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.

TPP 4143 Acting: Styles II
3 sh (may not be repeated for credit)
Prerequisite: TPP 1282, TPP 3155
Emphasis on creating requiring skill with language.

THEATRE PRODUCTION AND ADMINISTRATION 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 3018 Design Portfolio
3 sh (may not be repeated for credit)
Prerequisite: TPA 2000, TPA 2200
Co-requisite: TPA 4045
Building a design portfolio for submission for employment in professional theatre or graduate school. Survey of employment opportunities in professional theatre and graduate school. Portfolio presentation and interview skills.
TPA 3020 Lighting Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 2000, TPA 3344
Co-requisite: TPA 2000

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 3344
Co-requisite: TPA 2000

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 3259 Lighting Design
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200, TPA 2290L, TPP 3650
Co-requisite: TPA 2000, TPA 3650

Theory and application of lighting design for the theatre. Use of CAD (Computer Aided Design) in lighting design projects.

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 to project is to be implemented. Students gain an understanding of drafting tools to effectively communicate ideas in a clear and precise form.

TPA 3601 Stage Management
3 sh (may not be repeated for credit)
Prerequisite: THE 2000

Stage Managers work with Things and People. Course clarifies the Things to work with as a Stage Manager and the techniques needed to work effectively with them. Discusses different methods to use with the myriad of people and personalities encountered in the Theatre. Improvisation and class discussion are employed to examine how to work more effectively with everyone on a production.

TPA 4021C Lighting Design II
3 sh (may not be repeated for credit)
Prerequisite: TPA 3020

Advances the study of the design process involved in lighting design. Theoretical design projects and light lab projects are used to give the student challenges in the classroom that can be directly translated to the design process. Theoretical projects in a variety of design venues and types of theatre with lab projects that further build the designer's resources.

TPA 4045 Costume Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 2000

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.
THEATRE STUDIES AND GENERAL RESOURCES Courses

THE 2000  The Theatre Experience
3 sh (may not be repeated for credit)
Role of theatre in contemporary American culture. Arts and craft of theatre, including drama, criticism, acting and production. (General Studies Course: HUM/FA).

THE 2300  Survey of Dramatic Literature
3 sh (may not be repeated for credit)
Survey of play scripts representing a succinct history of Western drama. (General Studies Course: HUM/FA), (Gordon Rule Course: Wrtg).

THE 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 9.0 sh of credit)
Individualized study in all areas of theatrical production and performance through apprenticeship on departmental productions during a semester. Completion of all lower division common prerequisites is required. Material and Supply Fee will be assessed.

THE 3112  History of Theatre I
3 sh (may not be repeated for credit)
Theatre history from origins through the eighteenth century.

THE 3113  History of Theatre II
3 sh (may not be repeated for credit)
Theatre history from eighteenth century through the present.

THE 3243  Musical Theatre History
3 sh (may not be repeated for credit)
History and development of musical theatre from origins to present.

THE 3306  Dramatic Literature II
3 sh (may not be repeated for credit)
Prerequisite: THE 2300
A survey of play scripts representing important contributions from various genres of Western Theatre from the Greeks through contemporary Drama.

THE 3481  Dramaturgy
3 sh (may not be repeated for credit)
Prerequisite: TPP 3650
Co-requisite: TPP 3650
An overview of various dramaturgical principles in a theatrical text. The topics are the relationship between text an co-text, the time-space relations, levels of narration, character construction, the adaptation from literature to stage, and the relationship of the text to society and art.

THE 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 4970  Senior Project
3 sh (may not be repeated for credit)
Preparation and completion of performance or design presentation as culminating project for the Bachelor of Fine Arts or Bachelor of Arts degree. Permission is required.

THE 4972  Senior Project Seminar
1 sh (may not be repeated for credit)
Planning, writing, and researching a proposal for the Senior Project. To be taken the semester prior to the Senior Project. Permission is required.

TRANSPORTATION AND LOGISTICS Courses

TRA 3153  Strategic Transportation Management
3 sh (may not be repeated for credit)
Presents the fundamental elements necessary to plan transportation systems. It examines the importance of transportation in the economy and the strategic and operational roles of transportation in supply chains. Emphasis is placed on domestic and global transportation operations, services pricing, carrier selection, equipment and shipment planning, transportation execution systems, intermodal operations, security, and expanded services in distribution.

ZOOLOGY Courses

ZOO 1010  General Zoology
4 sh (may not be repeated for credit)
Co-requisite: ZOO 1010L
Introduction to the basic principles in animal biology presented as an integrated review of morphology, physiology, genetics, development, systematics, evolution and ecology. Provides foundation for further study in zoology. Material and supply fee will be assessed for corresponding lab. (General Studies Course: NS/LEC).

ZOO 1010L  General Zoology Lab
0 sh (may not be repeated for credit)
Co-requisite: ZOO 1010
Corresponding lab for General Zoology.

ZOO 3558  Coral Reefs
3 sh (may not be repeated for credit)
Prerequisite: ZOO 1010, ZOO 1010L
Co-requisite: ZOO 3558L
Survey of the invertebrates, with emphasis on systematics, morphology, physiology and ecology. Labs include detailed study of types and exposure to diversity, using live and preserved specimens, and exposure to techniques used in zoological research. Emphasis is on local marine species. Material and supply fee will be assessed for corresponding lab.
ZOO 4254L  Marine Invertebrate Zoology Lab  
0 sh (may not be repeated for credit) 
Co-requisite: ZOO 4254  
Corresponding lab for Marine Invertebrate Zoology.  

ZOO 4304  Marine Vertebrate Zoology  
4 sh (may not be repeated for credit) 
Co-requisite: ZOO 4304L  
Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab.  

ZOO 4304L  Marine Vertebrate Zoology Lab  
0 sh (may not be repeated for credit) 
Co-requisite: ZOO 4304  
Corresponding lab for Marine Vertebrate Zoology.  

ZOO 4454  Elasmobranch Biology  
3 sh (may not be repeated for credit) 
Prerequisite: CHM 2045, CHM 2045L, ZOO 1010, ZOO 1010L  
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: CHM 2045, CHM 2045L, PHY 2053, PHY 2053L  
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 4458; graduate students will be assigned additional work.  

ZOO 4485  Marine Mammalogy  
3 sh (may not be repeated for credit) 
Prerequisite: ZOO 1010, ZOO 1010L  
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: ZOO 1010  
Contemporary view of animal behavior including discussion of sensory and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 5514; graduate students will be assigned additional work.  

ZOO 4880C  Fisheries Biology  
4 sh (may not be repeated for credit)  
Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.  

ZOO 5452  Elasmobranch Biology  
3 sh (may not be repeated for credit) 
Prerequisite: CHM 2045, CHM 2045L, ZOO 1010, ZOO 1010L  
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 5454  Elasmobranch Biology  
3 sh (may not be repeated for credit) 
Prerequisite: PCB 4043, PCB 4043L, ZOO 1010, ZOO 1010L  
Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.  

ZOO 5458  Fish Physiology  
3 sh (may not be repeated for credit) 
Prerequisite: CHM 2045, CHM 2045L, PHY 2053, PHY 2053L  
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 5466  Marine Mammalogy  
3 sh (may not be repeated for credit) 
Prerequisite: PCB 4043, PCB 4043L, ZOO 1010, and ZOO 1010L  
Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology, and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 4485; graduate students will be assigned additional work.  

ZOO 5514  Animal Behavior  
3 sh (may not be repeated for credit)  
Animal behavior including discussion of sensory biology and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.  

ZOO 5881C  Fisheries Biology  
4 sh (may not be repeated for credit)  
Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 4880C; graduate students will be assigned additional work.
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