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About UWF

In this section:
- Accreditation (https://uwf.edu/offices/academic-affairs-division/accreditations/overview-list)
- Alma Mater (p. 3)
- Chambered Nautilus (p. 3)
- College Mission Statements (p. 3)
- University Vision, Mission, and Values (p. 3)

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;
And evermore will last.
Your stately mansions were our home
Where minds and hearts are free
And though we may far from you roam,
We'll always honor thee.
Composer: Lynn Lauderdale, D.M.A.
Lyricist: A. Michael Yots, Ph.D.

Chambered Nautilus

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

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

College Mission Statements

College of Arts, Social Sciences and Humanities

The College of Arts, Social Sciences, and Humanities engages students in the study of the Liberal Arts to prepare them for success in all aspects of life. Our mission is to educate new generations of civic and professional leaders, to foster individual growth, and to build vibrant communities by contributing to the richness of cultural and artistic life.

College of Business

The College of Business prepares students for successful careers in business and society through high-impact, student-focused educational experiences with face-to-face and online delivery. We conduct relevant and innovative research that contributes to business practice, enhanced educational opportunities, and business theory. We engage in value-added practices to serve the business and academic communities.

College of Education and Professional Studies

The mission of the College of Education and Professional Studies is to educate and prepare competent professionals and educators to resolve 21st century problems using the most advanced theoretical, managerial, and technological knowledge, skills, and abilities available.

Usha Kundu, MD College of Health

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

Hal Marcus College of Science and Engineering

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

University Vision, Mission, and Values

Mission

Our Mission at UWF is to
- Provide high-quality undergraduate and graduate education,
- Conduct teaching and research that services the body of knowledge, and
- Contribute to the needs of professions and society.

Our Vision

A spirited community of learners, launching the next generation of big thinkers who will change the world.

Our Values

Our institutional values -- shared by students, faculty and staff -- make UWF a great place to learn and to work. UWF maintains policies and practices and pursues initiatives congruent with our values.

UWF Operates with Integrity in All Matters: Doing the Right Thing for the Right Reason.

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.

Creativity: Providing opportunities to imagine, innovate, inspire and express different approaches and solutions to existing and anticipated needs and challenges.
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<th><strong>Entrepreneurship:</strong></th>
<th>Encouraging a culture that identifies opportunities to initiate change.</th>
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<td><strong>Inclusiveness:</strong></td>
<td>Welcoming, respecting and celebrating the differences and the similarities among people and ideas.</td>
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<td>Exploring, expanding, and enhancing learning and knowledge through transforming experiences.</td>
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Academic Calendar

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

In this section:

- Pensacola Campus (http://uwf.edu/about/location/university-locations)
- Emerald Coast Instructional Site (http://uwf.edu/emeraldcoast)
- Online Campus (http://onlinecampus.uwf.edu)
Governance, Administration and Faculty

In this section:

- Governance and Administration (https://uwf.edu/about/at-a-glance/leadership)
- Faculty (http://uwf.edu/offices/academic-affairs-division/about-us/administrative-units)
Campus Crime Information

University Police

- Argo Alert (Safety Alerts and Notices (http://uwf.edu/offices/police/notifications/safety-alerts-and-notices))
- Campus Escort (https://uwf.edu/offices/police/programs/safety-escort)
- Emergency Management (http://uwf.edu/offices/environmental-health-safety/building-emergency-coordinator-program/roles-and-responsibilities)

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

Campus Sex Crime Prevention Act

This federal law (https://offender.fdle.state.fl.us/offender/sops/floridaLaw.jsf) 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 of Campus Security Policy and Campus Crime Statistics Act

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

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

Student Advocate

Refer to Dean of Students Office, Student Advocate (http://uwf.edu/offices/dean-of-students/student-advocate).
Graduate Catalog

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

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

Persons with a disability requiring reasonable accommodation should contact Student Accessibility Resources (https://uwf.edu/offices/student-accessibility-resources) 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. 11)
• Admission Requirements (p. 13)
• International Graduate Admission (p. 14)
• General Readmission (p. 16)
• Appeal of Admission Denial (p. 16)

General Information

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

General Policies

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

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

Conditions of Admission

The Graduate School will notify the applicants of the admission decision. Admission to the University is often contingent upon the subsequent receipt of satisfactory and official college or university transcripts and verification of baccalaureate degrees. Failure to submit such documents may result in the cancellation of admission. Refer to Provisional Admission (p. 14) for more information.

Ownership of Submitted Documents

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

Fraudulent Records

If it is found that an applicant has made a false or fraudulent statement or a deliberate omission on the application for admission, the residency statement, or any other accompanying documents or statements, the applicant may be denied admission. If the student is already enrolled when the fraud is discovered, the case will be adjudicated using the procedures specified for violations of the UWF Student Conduct System as contained in the Student Handbook. (https://uwf.edu/offices/enrollment-and-student-affairs-division/plans-policies-and-publications)

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/REG 3.003 (https://uwf.edu/offices/board-of-trustees/regulations).

Request for Admission for a Later Semester

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

Admission Documents Required

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

Application for Admission

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

College Transcripts

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

Test Scores

Official test results from a nationally standardized graduate admission test are required for all applicants unless otherwise specified by the graduate program to which the applicant is applying. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program or if it may be waived. The University of West Florida accepts the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), and the Graduate Management Admissions Test (GMAT). For the majority of departments, it is recommended that the graduate admission test be taken no later than April for the fall semester, August for the spring semester, or January for the summer semester. Applicants should contact the specific department for departmental deadlines for admission tests. Applicants to the Ed.D. program should take the GRE, MAT, or GMAT one year prior to desired admission. The
Application to the ABM Program
There are two separate application processes: (1) submission/approval of ABM Program Application (allows undergraduate student to begin taking pre-approved graduate-level courses) and (2) submission/approval of graduate admission application (officially admits student into the master's program).

- A prospective student who meets the eligibility requirements must schedule a meeting with his/her undergraduate advisor and graduate advisor to develop a degree plan for his/her bachelor's to master's degree programs. The degree plans must clearly indicate the courses (a maximum of 12 graduate semester hours at either the 5000 or 6000 level) that will be applied to both the bachelor's and master's degrees. Undergraduate courses cannot be used to meet graduate degree requirements.

- The prospective student must be given a copy of these guidelines.

- The prospective student must submit an ABM Program Application. The application must be approved by the department chair(s) and a copy must be submitted to the Graduate School.

- Before the student can persist to the master's degree, during the semester prior to undergraduate graduation, students must submit the standard graduate application for admission (or the express admission application) to the Graduate School including:
  - The application processing fee (unless submitting the express admission application)
  - Official copy of all non-UWF transcripts
  - Acceptable graduate admission test score. If submitting an express admission application, students should check with their department to make sure a graduate admission test score is required.

- Students who are a part of the ABM program cannot be conditionally admitted into the graduate program; they must either be provisionally or fully admitted into the graduate program.

*AC-20.02-12/16 (https://confluence.uwf.edu/download/attachments/54728019/AC-20.02.12.16%20Development%20of%20Accelerated%20Bachelors%20to%20Masters%20Programs.pdf?api=v2)

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

Criteria for Express Admission
- Applicant must be nominated by the chairperson of the proposed master's program and be approved by the respective college dean.
- Applicant must be a candidate for graduation from UWF.
- Applicant must be an undergraduate student either within the same department as the proposed master's program or in a...
department that has established a cross-discipline express admission agreement with the proposed master's program.

- Applicant must maintain continuous enrollment at UWF, which means the 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 her/his master’s program in the summer or fall semester of the same year of graduation. A fall graduate must attend the following spring semester; and a summer graduate must attend the following fall semester).
- Applicant must meet published UWF graduate admission criteria.
- Admission of a UWF undergraduate is provisional upon the awarding of the baccalaureate degree prior to commencement of graduate study.
- The application for express admission must be completed and received by 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 Applicants

Graduate non-degree seeking applicants must complete the online graduate non-degree seeking application. Non-degree seeking applicants do not need to pay an application processing fee, nor do they need to submit a graduate admission test, official college transcripts, or departmental admission requirements. The non-degree classification at the graduate level is used only by those students who have completed a baccalaureate degree. Non-degree seeking applicants whose native language is not English or applicants from a country in which the primary language is not English, must submit acceptable scores on an English Proficiency Test (p. 15) to be considered for non-degree seeking status.

For enrollment information, see the Non-Degree Seeking Status (p. 44) section of the Catalog.

Admission Requirements

Admission Policies

Admission to a UWF graduate program is a selective process that is governed by University requirements and department requirements that may exceed University-level requirements. Admission decisions are based on a holistic review of credentials in which multiple criteria are used to judge the appropriateness of an applicant to pursue graduate study. Each department selects factors it considers will help predict probable success in the graduate program and may include, but are not limited to, the quality of the applicant's undergraduate or graduate preparation as determined by the undergraduate or graduate institution attended; undergraduate or graduate grade point average and performance in specific courses; scores on standardized admission tests; the motivation and attitude of the applicant as determined by a personal statement, letters of reference, and/or a personal interview or other means; and writing ability.

Preference for admission to any semester is given to students whose credentials indicate the greatest promise for academic success. Because of factors related to a department's enrollment capacity, the fact that a student meets minimum requirements does not guarantee admission to a specific program.

Admission requirements shall not include preferences in the admissions process for applicants because of race, national origin, or gender.

Requirements for Regular Admission to a Master's Program

Each applicant shall be required to meet minimum University requirements:

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

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

Requirements for Regular Admission to an Educational Specialist Program

Each applicant shall be required to meet minimum University requirements:

- An earned master's degree from an institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.25 on a 4-point scale.
- Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
- A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or an equivalent that is acceptable for the specialization to which the student is applying. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that
program or if it may be waived. Test scores must be no more than five years old.

• Other requirements as specified by each specialization for the degree.
• Approval by the department offering the specialization to which the applicant is applying.

Requirements for Regular Admission to a Doctoral Program

Each applicant shall be required to meet minimum University requirements:

• An earned master’s degree from an institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.5 on a 4-point scale.

• Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.

• A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or an equivalent that is acceptable for the specialization to which the student is applying. Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program or if it may be waived. Test scores must be no more than five years old.

• Other requirements as specified by each specialization for the degree.
• Approval by the department offering the specialization to which the applicant is applying.

Provisional Admission

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

Conditional Admission

Students who do not meet the minimum requirements for regular admission may be admitted by a department on a conditional basis. In order to be considered for conditional admission, students must submit all required admission materials. Also, students who have graduated from a recognized, although non-accredited, institution may be admitted on a conditional basis at the department’s discretion. Students admitted on a conditional basis may be permitted to register for up to 12 semester hours of graduate coursework, identified by the department as appropriate to the degree. In addition, the student must:

1. Earn at least a grade of “B” on each of those courses during the semester(s) where the student is admitted on a conditional basis

2. Earn a semester grade point average above a 3.0, earning no less than a C+ on any given course, during the semester(s) where the student is admitted on a conditional basis.

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

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

International Graduate Admission

International Graduate Admission

UWF is home to international students from a wide range of countries and nationalities. 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 graduate admission, the information included in this section pertains to international applicants.


International Programs

International Programs (https://uwf.edu/offices/international-affairs/programs-and-services/international-services) is here to provide advice, counsel, and support services to international students and scholars concerning federal immigration regulations and University policies. They are also committed to furthering personal and academic development of the campus community through the advancement of multicultural competency educational programs, sponsoring intercultural experiences, and promoting the development of global leaders through international partnerships.

International Programs is the central point of contact for the U.S. Department of Homeland Security and manages the Student and Exchange Visitor Information System (SEVIS) for all international students and scholars in F-1 and J-1 status. International students and scholars must meet federal guidelines that govern their stay in the United States. The Office provides critical support services to students, faculty, and staff members who enter the U.S. and/or desire to travel out of the country.

Applicants should feel free to ask questions and seek assistance from this office at any time.

International Programs (https://uwf.edu/offices/international-affairs/programs-and-services/international-services) | Building 71 | (http://catalog.uwf.edu/graduate/admissions/internationaladmissions/tel:8504742479)(850) 474-2479 (http://catalog.uwf.edu/graduate/admissions/internationaladmissions/tel:8504742479) | international@uwf.edu

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 548663
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

**International Education Consultants**

**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)

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

**Minimum Scores**

The following minimum scores are required by the University. Individual departments may require higher scores.

**Paper-based TOEFL (pBT):** 550
Listening/Comprehension Sub Score: 53

**Internet-based TOEFL (iBT):** 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 by Florida law to pass a test of spoken English and must obtain and report a minimum TOEFL iBT Listening sub score of 23 to the Graduate School.

**Exemptions from Proof of English Proficiency**

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

**Deadlines for Applications and Supporting Documents**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Deadline</th>
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<tr>
<td>Fall</td>
<td>June 1</td>
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<tr>
<td>Spring</td>
<td>October 1</td>
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<tr>
<td>Summer</td>
<td>March 1</td>
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Because some departments have earlier deadlines, applicants should contact specific academic departments for departmental deadlines. It is in the applicant’s best interest to submit the application and documents early. Files completed after the published deadlines may not be processed in time for the applicant to be considered for enrollment in the desired semester.

**Notice of Admission**

If a student’s application for admission to UWF is approved, an official letter of admission will be mailed by the Graduate School. Admission is for a specific semester only. If the student is unable to enroll for the semester indicated on the letter of admission, the Graduate School should be informed immediately.

Under no circumstances should an applicant make departure plans for Pensacola until official approval has been given by the Graduate School and the student has received the Form I-20 from International Programs (see F-1 Student Visa (p. 15)). Applicants who come to the campus without first receiving an official notice of acceptance do so at their own risk. The applicant’s presence on the campus will not influence the decision of an application for admission.

**Form I-20**

Admitted students who will attend UWF on an F-1 student visa will need a Form I-20, which International Programs issues. All instructions for obtaining an I-20 are available through International Programs (https://uwf.edu/offices/international-affairs/programs-and-services/international-services/new-students/how-to-get-an-i-20).

**Getting an F-1 Student Visa**

Once admitted, international students are issued a Form I-20 by International Programs. The Form I-20 is used to apply for an F-1 student visa. All instructions for this process are available through International Programs (https://uwf.edu/offices/international-affairs/programs-and-services/international-services/new-students/whats-next).
Immunizations

Applicants must submit a Mandatory Immunization Health History Form (http://uwf.edu/offices/student-health-services/immunizations/uwf-online-immunization-form) completed by the applicant. Refer to the U (http://uwf.edu/offices/student-health-services/immunizations/uwf-immunization-policy) WF Immunization Policy (https://uwf.edu/offices/student-health-services/immunizations/uwf-immunization-policy) for more information.

Insurance

The State of Florida requires all international students to have health and accident insurance. Students can purchase the UWF insurance plan or submit an approved waiver. For more information on getting insurance, see Maintaining Required Insurance as an F-1 or J-1 Student (https://confluence.uwf.edu/display/public/Maintaining+Required+Insurance+as+an+F-1+or+J-1+Student). It is important to review a policy before purchasing because many foreign insurance companies and travel insurance plans do not meet State of Florida regulations.

*UWF AC-28.02-07/14 (https://uwf.edu/offices/board-of-trustees/policies)

Transfer of Funds

Prospective students should familiarize themselves with the current regulations of their own governments, as many restrict the purchase of U.S. dollars. Students should arrive with ample funds in U.S. dollars or in a credit card which is authorized to be used in the U.S. International wire transfer service to UWF is also available.

Employment


International Exchange

International students interested in participating in the UWF exchange program must be nominated by their home institution. Once confirmation of a student's eligibility has been received by the home institution, the acceptance process can begin through International Programs. For a list of participating exchange partner institutions and application procedures, please see Applying as an Exchange Student (http://uwf.edu/offices/international-affairs/programs-and-services/international-services/exchange-students/how-to-apply).

Study Abroad

International Programs provides access to international educational experiences for students and faculty at UWF. Study abroad programs are academically challenging, professionally relevant, and personally engaging. They are designed to enhance the development of multicultural competencies both domestically and abroad. See the Study Abroad page (https://uwf.edu/offices/international-affairs/programs-and-services/study-abroad) for more information.

General Readmission

Readmission to Master's and Specialist Programs

Graduate students not in attendance during three or more consecutive academic semesters (including summer semester), but less than five years, must complete the "Application for Readmission" and provide any required documentation. The application must be filed according to readmission deadlines stated in the Academic Calendar (p. 5) for the semester to which the student is reapplying. The Application for Readmission does NOT include an application processing fee. Readmitted students will have their official catalog year automatically updated to the catalog year in effect at the time of re-enrollment. Readmitted students also have the option of changing their catalog year to the catalog year in effect at the time of graduation.

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

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

Readmission to Doctoral Program

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

Appeal of Admission Denial

Denial of Admission to Graduate Programs

Applicants who have been denied admission or readmission to a graduate program at the University may appeal the denial by filing a written letter of appeal with the Graduate School. 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 letter of appeal will be forwarded to the appropriate College Dean. The College Dean will convene a faculty committee to review the denial within 20 days of the date of the appeal letter. The committee will consider the materials submitted by the applicant including the letter of appeal. The committee’s decision will be forwarded to the applicant by the Graduate School within five business days of the date of the receipt of the committee’s decision. This appeal decision is final.

The letter of appeal may be emailed to gradadmissions@uwf.edu or mailed to The University of West Florida, Graduate School, Building 11 Room 207, 11000 University Parkway, Pensacola, Florida 32514.

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/offices/board-of-trustees/regulations).
After Admission

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

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

Apply for Military and Veterans Benefits
Refer to information on Military and Veterans Benefits (http://uwf.edu/offices/military-veteran-resource-center).

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

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

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

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

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

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

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

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

Register for Classes
Refer to information on Registration Policies and Procedures (p. 48). A Registration Guide (https://confluence.uwf.edu/display/public/Student+Registration+Checklist) to assist with the registration is also housed on the Office of the Registrar website.

Obtain Nautilus Card
All Pensacola campus students are required to purchase a Nautilus Card (http://uwf.edu/offices/business-auxiliary-services/nautilus-card/nautilus-card-overview). Refer to information on Tuition and Fees (p. 25).

Obtain Parking Permit
Parking a vehicle on campus requires a parking permit (http://uwf.edu/offices/business-auxiliary-services/parking-and-transportation/parking-permits) which may be purchased online through MyUWF at my.uwf.edu and search for ‘parking’.

Confirm Residency for Tuition Purposes
Refer to information on Residency (p. 30).

Pay Tuition and Fees
Refer to information on Tuition and Fees (p. 25).

Student Rights and Responsibilities
The University seeks to provide an environment which encourages the thoughtful development of intellectual, social, and moral standards. Students conduct is expected to be lawful and not violate federal, state, local laws, County or municipal ordinances. In addition, Students are expected to abide by all Board of Governors or University regulations, or policies (https://uwf.edu/go/legal-and-consumer-info/). The Student Handbook is available online; refer to the Student Handbook (https://uwf.edu/offices/enrollment-and-student-affairs-division/plans-policies-and-publications).

Student Code of Conduct
The University seeks to provide an environment which encourages the thoughtful development of intellectual, social, and moral standards. Student conduct is expected to be lawful, and students are expected to abide by all University regulations and the Student Code of Conduct (http://uwf.edu/offices/dean-of-students/office-of-student-rights-and-responsibilities/student-code-of-conduct), as published in the Student Handbook and Planner.

Grievance
All students may bring grievances to the attention of University personnel, and they will receive prompt and fair disposition of grievances as outlined in the Student Handbook and Planner. Also refer to Appeals and Grievances (http://uwf.edu/offices/dean-of-students/dean-of-students/other-processes).

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

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

New Student 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.

Individual departments may also hold separate orientations specific to their discipline.

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 assigned an academic advisor or a faculty advisor within their program department to assist in planning academic programs, provide guidance in personal, academic, and professional development, and foster interaction among students and faculty. All students are encouraged to seek academic advising on a regular basis.

Degree-seeking students are responsible for arranging appointments with their assigned academic advisors prior to registration. Degree-seeking students who are enrolling for their initial semester at UWF must meet with their advisor prior to registration to discuss degree plans and have the advising hold deleted. Appointments can be made through the academic departments, or for Emerald Coast students, through the staff of the Emerald Coast Instructional site. Degree-seeking students have priority for registration and enrollment.

University Responsibilities
The faculty, administration, and staff share a responsibility to provide accurate information and effective advice. The Division of Enrollment and Student Affairs (https://uwf.edu/offices/enrollment-and-student-affairs-division) is responsible for providing students, faculty, and other advising staff with accurate information in the Catalog and other publications.

The academic and faculty advisors in the College of Arts, Social Sciences and Humanities (CASSH); College of Business (COB); College of Education and Professional Studies (CEPS); Hal Marcus College of Science and Engineering (HMCSE); and Usha Kundu, MD College of Health (UKCOH) 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 major requirements for graduation. Students should use their degree audit, Catalog, and other resources for information.

Academic Advising Directory
College of Arts, Social Sciences, & Humanities (CASSH) Advising*
Pensacola Campus - Building 11, Room 205
(850) 474-3340
cassh@uwf.edu

College of Business (COB) Advising Center
Pensacola Campus - Building 76A, Room 224
(850) 474-3342
cobadvising@uwf.edu

College of Education & Professional Studies (CEPS) Advising Center
Pensacola Campus - Building 85, Room 103
(850) 474-2769
cepsdean@uwf.edu

Hal Marcus College of Science & Engineering (HMCSE) Advising*
Pensacola Campus - Building 4, Room 423
(850) 474-2688
hmcse@uwf.edu

Usha Kundu, MD College of Health (UKCOH) Advising Center
(https://uwf.edu/coh/support-resources/ukcoh-advising-center)
(850) 474-2563
coh@uwf.edu

*These colleges do not have formal advising centers. Contact your department for more information.
Financial Aid

Financial Aid

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

Applying for Aid

To apply for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA), available online at www.fafsa.ed.gov and enter UWF’s school of 003955. The FAFSA becomes available for the next aid year every October 1 and uses tax information from the prior prior tax year. Once the FAFSA is processed, the results will be transmitted electronically to UWF and the results will also be e-mailed to the student. We encourage students closely review the SAR. Students must reapply for financial aid each academic year by submitting a new FAFSA. More information on the application process is available here (http://uwf.edu/offices/financial-aid/applying-for-aid/steps-to-apply/)

Types of Aid

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

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

For a complete list of types of aid offered at UWF, please visit the Financial Aid website (http://uwf.edu/offices/financial-aid/).

Cost of Attendance

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

Important Requirements

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

Military Personnel

The University of West Florida recognizes that many active duty military personnel face formidable barriers in the pursuit of a college degree. As part of the University’s continuing commitment to educational opportunities for military personnel, in the fall of 2011, UWF opened a center dedicated to supporting all military and veteran-affiliated students, including spouses and dependents. This center is the Military and Veteran's Resource Center (MVRC) (http://uwf.edu/mvrc), located in building 38, room 147 on the Pensacola campus. 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 services, counseling & tutoring, etc. A computer center is housed within the MVRC for use by veterans for coursework. For further information, 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).

UWF VetSuccess on Campus

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

Military Transcripts

Instructions for ordering transcripts for each of the various branches of service can be found at the following locations:

- Army, Coast Guard, Marine Corps, and Navy (Active Duty, Reserve and Veterans): https://jst.doded.mil/smart/welcome.do

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) (http://uwf.edu/militaryveterans) 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 further information, contact the MVRC at mvrc@uwf.edu or 850-474-2550.

Educational Objective

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

Yellow Ribbon

The University of West Florida is an approved participating Yellow Ribbon Institution for the 2018-2019 catalog year. The Yellow Ribbon program is designed to help non-Florida residents cover the cost of their education that exceeds the in-state tuition and fees. It is only available to those individuals eligible for the maximum benefit rate (100%) of the Post-9/11 GI Bill (Chapter 33), and also to those who are not eligible for the Congressman C.W. “Bill” Young Veteran Tuition Waiver. Yellow Ribbon will be granted to the first 250 qualified students on a first-come, first-served basis.

Congressman C.W. “Bill” Young Veteran Tuition Waiver Program

UWF students who are honorable discharged Veterans of the United States Armed Forces, the United States Reserves Forces, or the National Guard, who physically reside in Florida, in addition to dependents who are physically residing in Florida and currently using VA education benefits, are eligible for a waiver of out-of-state fees. The student must present to the Military and Veterans Resource Center a copy of the Department of Defense Form 214 (DD-214; veterans only) and/or Certificate of Eligibility (COE), documentation of their residence, and completed C.W. “Bill” Young Tuition Waiver Application. The form to request the waiver is completed through MyUWF (https://my.uwf.edu). Students will remain eligible under the waiver as long as they are continuously enrolled at UWF. Dependents must be actively using benefits to remain eligible.

VA Tuition Deferment

VA students are provided a VA tuition deferment to help reduce/prevent a student’s chances of accruing late fees and/or a student from being dropped from classes for non-payments. VA status is determined after individuals have submitted a request to use VA benefits (via their MyUWF account), and after providing proof of VA benefits through a VA application form 1990, 1990e, 1995, 5490, or 5495.

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

### Section 1: Academic Progress

**University academic standing is discussed in the Academic Policies**

**Academic Progress**

University academic standing is discussed in the Academic Policies section (http://catalog.uwf.edu/graduate/academicpolicies/general/#academicstanding) of the Catalog. However, students receiving veterans’ benefits must meet the requirements listed below, consistent with UWF’s academic policies.

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

**VA Academic Probation**

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

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

**VA Academic Suspension**

A student with two (2) 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 program coordinator.
- 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 (3) 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. Applications 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. To prevent overpayment and subsequent indebtedness to the Federal Government, it is the responsibility of each student to notify the Military and Veteran’s Resource Center immediately of changes that may affect the student’s eligibility for benefits, including:

**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) 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 submit payment or request a deferment may be dropped from all of their courses for non-payment. Students who are dropped from courses due to 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.

**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.

### Table: Semester Dates

<table>
<thead>
<tr>
<th>Semester (Year)</th>
<th>1 Term</th>
<th>2 Term</th>
<th>3 Term</th>
<th>4 Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2018</td>
<td>Nov 24</td>
<td>Sep 25</td>
<td>Nov 20</td>
<td></td>
</tr>
<tr>
<td>Spring 2019</td>
<td>Apr 6</td>
<td>Feb 5</td>
<td>Apr 2</td>
<td></td>
</tr>
<tr>
<td>Summer 2019</td>
<td>Jun 11</td>
<td>Jun 11</td>
<td>Jul 26</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 submit payment or request a deferment may be dropped from all of their courses for non-payment. Students who are dropped from courses due to non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee.

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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.
Courses Not Eligible for Benefits

Students will receive an automated email whenever they enroll in a course that does not meet degree requirements. The email will give them directions to contact their advisor and what they can do if the course can be used for graduation.

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 are taken to fulfill requirements at another institution unless a transient authorization is received;
- Courses are taken on an audit or noncredit basis, or courses in which the permanent grade is “non-punitive,” (e.g., “W” or “V”);
- Courses for which an “I” or “I*” was assigned, but not changed to a letter grade (A through F) within one year of the completion of the semester; in this case, the DVA will be notified retroactively;
- Remedial and deficiency courses offered by independent study;
- Distance Learning classes designed for career enhancement or continuing education.

Change of Address

If a student’s address changes, both the DVA and UWF must be notified. Students can update their address via MyUWF (https://my.uwf.edu). All students, except chapter 35s, can contact the MVRC Office VetSuccess Counselor to change their address. Chapter 35 students must still contact the VA at 888-442-4551 to change their address.

Certificate Programs

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

Part of Term Courses

Part of Term courses are those beginning and/or ending on dates other than the regular semester dates. These are referred to as Part of Term 5, Part of Term 6, Part of Term 7, Part of Term 8, and Part of Term 9.

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

<table>
<thead>
<tr>
<th>Semester (Year)</th>
<th>1 Term</th>
<th>2 Term</th>
<th>3 Term</th>
<th>4 Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 2018</td>
<td>8/27-12/15</td>
<td>8/27-10/19</td>
<td>10/22-12/7</td>
<td>XX</td>
</tr>
<tr>
<td>Spring 2019</td>
<td>1/7-5/4</td>
<td>1/7-3/1</td>
<td>3/4-4/26</td>
<td>XX</td>
</tr>
</tbody>
</table>

Non-Standard Term Certification to VA Policy

Department of Veterans Affairs Educational Beneficiaries

This policy applies only to students receiving VA Educational Benefits (all chapters). It is not representative of the official enrollment status reported to the National Student Clearinghouse. This policy is only for purposes of reporting to the Veterans Affairs Administration.

Graduate Students

Graduate students receiving VA Educational Benefits will have training time or rate of pursuit certified to the VA according to the length of the term session. The University of West Florida offers one standard term and eight non-standard parts of a term, many of which are accelerated. Graduate full-time for the standard term (Term 1) is 6 or more semester hours for all UWF semesters.

The UWF catalog determines full-time based upon the total number of hours enrolled within a semester, which meets the certification requirements of lenders, insurance companies, sponsors, and the National Clearinghouse. To meet the requirements of VA, however, certifications are based upon the training time of each individual term (vice semester total), which is why school certifying officials are required to report the beginning and end dates of each individual course enrollment. When taking a course in an accelerated non-standard term, fewer credits may be required in order to be considered full time by the VA.

It is important to know that VA pays education benefits that are earned one day at a time. As a consequence, a monthly benefit check reflects the sum of benefits earned each day within the month. The benefit earned each day depends upon the total training time (or rate of pursuit) in which the student is enrolled for that day. VA is prohibited by law from paying for days of non-enrollment within a semester.

By certifying terms (vice semester) and reporting the equivalent full time or training time for each term certified, the VA is able to comply with federal law while accommodating the myriad of institutional enrollment models that report to VA.

The training time that UWF certifies to the VA is based upon the University classification of enrollment policy applied to a standard term and the Term Equivalent Full-Time Table (Table 1). The VA refers to the adjusted full time credit hour for non-standard terms as “equivalent credit hours”. For students subject to Chapter 33 certification, VA will calculate rate of pursuit based upon the equivalent full-time that UWF certifies for the term, and will (for all chapters) determine the sum of training time for each day of overlapping terms. The below table shows the UWF “equivalent credit hours” based upon the total number of weeks in a term. (Rounding is in accordance with VA guidelines).

Graduate students must be enrolled in graduate or pre-requisite courses that are part of the student graduate degree plan. All CO-OP, Thesis, and Dissertation courses will be reported to the VA as full-time, regardless of the number of individual course credit hours. The full-time certification to VA only applies to the individual course for the course enrollment period as described by the course start and end dates.
Withdrawals

Military Duty

In the case of a student called to active duty military service or change of orders due to military conflict within a semester, the student must contact the Office of the Registrar and provide a copy of military orders immediately. Students should also contact the MVRC before withdrawing. Students will have the option of withdrawing with a complete refund, withdrawing with a grade of "W," or accepting incomplete grades to allow the student to complete the course at a later date. Students are asked to notify UWF of their desired option. The transcripts of students who have contacted the Office of the Registrar as stated above and are subsequently withdrawn, awarded refunds, or given incomplete grades will be annotated with an appropriate statement indicating actions taken was due to military active duty service.

Students who are eligible for Military Duty Withdrawal are:

1. Students who are currently on active duty with any unit of the U.S. Armed Services who receive orders that will require them to be reassigned to a different duty station or be absent from class for an extended period of time during the semester in which they are enrolled.
2. Students who are members of a National Guard, Air National Guard, or other military reserve unit who receive orders calling them to active duty for operational or training purposes during the semester in which they are enrolled, excluding any regularly scheduled weekend and summer training duty.
3. Students who are veterans of the U. S. Armed Services and who are recalled to active duty during the semester in which they are enrolled.
4. Students who enlist in any branch of the U. S. Armed Services and whose induction date falls within the semester in which they are enrolled.

Official Withdrawal Date: The date you officially withdraw from a course.

Unofficial Withdrawal Date: Students who stop attending courses and receive NF grades are considered to have unofficially withdrawn.

Medical Withdrawal

Medical withdrawals are processed by the Dean of Students. Students who may qualify for a medical withdraw should submit the Request for Medical Withdrawal and supporting documents to the Dean of Students Office.

Active Duty, DoD Civilian, Military Spouse

Active Duty Non-Resident Waiver

According to Florida Statute Title XLVII, K-20 Education Code, Chapter 1009.26 Educational Scholarships, Fees and Financial Assistance, Section (14)(a): All active duty members of the Armed Forces who are residing or are stationed outside the state of Florida shall have all out of state fees waived by the university. To apply for this waiver, contact the Military and Veterans Resource Center at 850-474-2550 or mvrcta@uwf.edu.

Active Duty and Active Duty Dependents Residing in Florida

Active Duty Military and their dependents stationed in Florida are eligible for temporary residency for tuition purposes. For more information, contact the Military and Veterans Resource Center at 850-474-2550 or mvrcta@uwf.edu.

Military Active Duty and Civilian General Tuition Assistance Information


Tuition Assistance Information

Submit completed and approved Tuition Assistance Vouchers to the MVRC (mvrcta@uwf.edu, 850-474-2550) before the end of regular registration (day before classes begin). In addition, login to your MyUWF (https://my.uwf.edu) account, complete, and submit the Enrollment Certification Form (ECF) after you have enrolled in your courses.

If you have courses within the semester that start in a later term, the application window for your branch of service may not yet be open for that term. If so, review the deferment request on the ECF form in your MyUWF (https://my.uwf.edu) account to determine if you would like the Cashier's Office to defer your tuition.

Make sure that the dates on your TA voucher match the dates for the course(s) in which you are enrolled. If you have courses in more than one Part of Term within the semester, you will need to submit a
Military and Veterans' Information

separate TA Voucher for each term. **Vouchers with incorrect dates or course information cannot be processed.**

You may submit the TA voucher by:

- **Email:** mvrcta@uwf.edu
- **Fax:** Attn: Certifying Officials to 850-474-2671
- **Mail:** UWF MVRC, Attn: Certifying Officials, 11000 University Parkway, Building 38, Room 147, Pensacola, FL 32514

**MyCAA Scholarship**

The Military Spouse Career Advancement Accounts (MYCAA - Spouse Tuition Assistance) is a Department of Defense program administered by the Air Force. Program eligibility is limited to spouses of service members on active duty in pay grades E-1 to E-5, W-1 to W-2, and O-1 to O-2, who have received approval for coursework while their military sponsor is on Active Duty military orders. Spouses married to members of the National Guard and Reserve Components in these same pay grades are eligible. This scholarship assists military spouses in pursuing licenses, certificates, and certifications, or associate degrees necessary to gain employment in high-demand, high-growth, portable career fields and occupations.

**TA Regular Withdrawals**

As participants in the Department of Defense Voluntary Education Partnership Memorandum of Understanding, the University of West Florida is required to calculate the TA earned when a military student using TA withdraws. Students who officially or unofficially withdraw from a course before completing more than 60 percent of the semester have not earned 100% of the amount of their voucher for the withdrawn course.

The University is required to return the unearned portion of the TA funds to the military service that provided the TA funding. Unearned TA funds that are returned to the appropriate military branch of service 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, grades, and transcripts until the debt is paid.

If a student is eligible to receive a refund from the University for tuition and fees, the University will apply the refund against the debt that results from unearned TA.

**Official Withdraw Date** - Students who stop attending and receive NF grades, or a combination of NF, W, and I (Incomplete) grades, are considered to have unofficially withdrawn, UWF will use the last date of participation to determine if the service member completed at least 60 percent of the course.

The calculation used to compute the amount of refund can be found at the TA withdrawal (http://uwf.edu/offices/financial-services/student-financial-services/student-accounts-cashiers) calculator. Select the Third Party Authorization & Waivers dropdown.

For clarification or questions, contact the MVRC at mvrcta@uwf.edu or 850-474-2550.
Tuition and Fees

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

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

2018-2019 Tuition and Fees


Payment of Fees

Fees may be paid by any of the following methods:

- Tuition and fees, housing, mandatory meal plans and the University ID card may be paid online using your checking or savings account through MyUWF (https://my.uwf.edu). An echeck payment results in an electronic debit of your bank account. There is no additional fee assessed for an echeck payment. If your payment is returned as unpaid by your bank for any reason, your student account will be assessed a return item fee.
- Credit and debit cards may also be used to make payments for tuition and fees, housing, and mandatory meal plans through MyUWF (https://my.uwf.edu). The University partners with CashNet to process credit and debit card payments and a convenience fee of 2.75% will be charged. This fee will be added to your total payment and is non-refundable. The convenience fee of 2.75% will be displayed prior to completion of the transaction. Your completion of the transaction acknowledges acceptance of these payment terms.
- Students that elect to pay with their Customers BankMobile VIBE account will also be assessed a convenience fee.
- Students may elect to pay with a Foreign Currency online through MyUWF (https://my.uwf.edu). WesternUnion, a respected leader in the realm of currency exchange, provides a mechanism to facilitate foreign currency payments.
- A parent portal is available for online payments through CashNet. Student authorization is required.
- Payments by cash, check, money order, or traveler’s check may be made in person at the University Cashiers office, Building 20 East, 8:15 a.m. - 4:45 p.m. for tuition and fees, housing, mandatory meal plans, the University ID card and other miscellaneous charges.
- Drop-box depository located at Building 20 East on the main campus. All payments must include the student’s name and UWF ID number to ensure correct and timely processing. Payments must be deposited in the depository by the close of business on the fee payment due date to be considered on time. Do not include cash when using the drop-box.
- By mail. Mail must be received by the due date to be considered on time. Postmark date is not considered on time. All payments must include the student’s name and UWF ID number to ensure correct and timely processing. Mail payments to UWF Cashiers Office, 11000 University Parkway, Building 20 East, Pensacola, FL 32514-5750.

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

When to Pay Fees

A student becomes liable for his or her tuition upon registration. There are only two due dates per term. Fees for courses remaining on the student’s schedule at the close of the drop/add period must be paid by the fee payment due date. The start date of your earliest class determines your fee payment due date. Payment for classes added after the initial due date are due immediately. For more information and specific examples refer to Tuition and Fees FAQs (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/frequently-asked-questions/tuition-and-fees).

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

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 programs if aid is delayed in
transmission to the student through circumstances beyond the student’s control.

- Veterans and other eligible students receiving veterans’ education benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic term. A 90-day deferment may be issued for the fall and spring terms and a 30-day deferment may be issued for the summer and mini-terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date.

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

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

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 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.

Financial Aid Delivery

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

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

The netting of financial aid awards begins after the drop/add period. Late awards of financial aid are processed in the same manner throughout each academic term. All excess financial aid will be sent to BankMobile for refunding according to the student’s refund preference.

Refund Preference

Degree seeking students will receive a Refund Preference Notification at the current address listed in MyUWF (https://my.uwf.edu). Students select the BankMobile Disbursements folder in MyUWF to register and select their refund preference. (No code or pin number required). Once logged into the system via the website, the following options are available for refunds:

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

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

UWF Payment Plan

Eligible students may pay current term tuition and fees, housing, mandatory meal plan, and the University ID card with a UWF payment plan. All of these charges will automatically be included in the plan. You cannot choose to exclude some charges. Eligible charges will be reduced by the amount of available financial aid, private scholarships, private loans and third party billing arrangements. The University offers payment plans with a variable number of installment payments dependent on the month of enrollment in the plan. Enrollment in the plan is completed through your CashNet account. Select the UWF Payment Plan link in CashNet. Each installment must be paid by the appropriate fee payment due date to avoid assessment of a $100 late payment fee. Students must have a favorable credit rating with the University to be eligible for the UWF Payment Plan. A $15 service charge will be added to all payment plans. Contact the Student Accounts Office at (850) 474-3037 for information.

Tuition and Fees Paid by Third Party

Students who are registering for courses which will be partially or fully paid by their sponsoring agencies must bring the contract or authorization forms and partial payments, if applicable, to the Cashiers Office during the registration period. Students should review their account balance in CashNet and verify their deferred status during the designated fee payment period. If the authorization is to be mailed to the Cashier's Office by the agency, it must be received by the fee payment due date.

Deferral is permitted provided formal contractual arrangements have been made with the University for payment 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 their tuition and fees in full. Failure to do so will result in an administrative hold on the student’s record and the assessment of a $100 late payment fee.

Delinquent Balances

Students who have delinquent balances at the University (financial aid billings, loans, library fines, etc.) must pay in full to avoid assessment of additional collection costs. Failure to pay the balance will result in holds being placed which will prevent registration as well as the
release of 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. The waiver application must be submitted prior to or during the applicable semester; requests will not be approved retroactively. Students must confirm the tuition waiver status with the Student Accounts and Cashier (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier) office during the designated fee payment period. Any portion of the student’s account balance not covered by a tuition waiver or other financial aid must be paid by the fee payment due date. Failure to do so will result in the assessment of a $100 late payment fee or cancellation of classes. Refer to Student Accounts and Cashier (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier) for more information or contact 850-474-3035.

**Graduate Assistantships**

Graduate assistants who have at least a 2.5 FTE appointment may be eligible for a matriculation fee waiver which applies to a portion of the in-state tuition. Out-of-state graduate assistants may be eligible for a waiver of the out-of-state portion of the tuition. Contact the Graduate School at (850) 473-7716 or the academic department for further information.

**Florida Department of Children and Family Services**

Students shall be exempt from paying tuition and fees if the student is or was at the time he or she reached the age of 18 in the custody of DCF or a relative under s. 39.5085; who was adopted from the DCF after May 5, 1997; or was placed in a guardianship by a court after spending at least 6 months in the custody of DCF after reaching 16 years of age. The student must provide certification of eligibility from the Florida Department of Children and Family Services. This exemption shall remain valid until the time the student reaches 28 years of age. Refer to Tuition Waivers (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/third-party-authorization-and-tuition-waivers/tuition-waivers-non-military) for more information and waiver form.

**Senior Citizens—Florida Residents**

Individuals who are 60 years or older and who meet Florida residency requirements may enroll on a space available basis without payment of the application fee and may receive a tuition and fees waiver. Certain portions of course fees are not covered by the waiver and must be paid by the fee payment due date to avoid the assessment of a $100 late payment fee or the cancellation of registration. No academic credit will be awarded in classes for which fees are waived. Refer to Senior Citizen Tuition Fee Waivers (http://uwf.edu/offices/registration/tuition-fees/senior-citizen-tuition-waiver) for detailed policies and procedures.

**Special Risk Dependent**

Dependents of special risk members as defined in Sections 112.190 and 112.191, Florida Statutes (law enforcement, correctional and correctional probation officers and fire fighters), killed in the line of duty are eligible for waiver of tuition and fees under certain circumstances. The amount waived shall not exceed 120 credit hours. The benefit shall continue until the student’s 25th birthday for dependent children. The benefits provided to a spouse must commence within 5 years after the death occurs and shall continue until the 10th anniversary of that death. Only a student in good standing may receive the benefits thereof. Refer to Tuition Waivers (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/third-party-authorization-and-tuition-waivers/tuition-waivers-non-military) for more information and waiver form.

**State Employee Six-hours Free Course Benefit**

State Employees are eligible for six hours of tuition free courses per term (fall, spring, and summer). Certain portions of course fees are not covered by the waiver and must be paid by the fee payment due date to avoid the assessment of a $100 late payment fee or the cancellation of registration. Certain self-funded degree programs are eligible subject to availability. Refer to State Employee Tuition Fee Waivers (http://uwf.edu/offices/registration/tuition-fees/state-employee-tuition-waiver) for detailed policies and procedures.

**Out-of-State Students**

Out-of-state students, including, but not limited to, students who are undocumented for federal immigration purposes who meet the following conditions are eligible for a waiver of out-of-state fees: attended a secondary school in Florida for 3 consecutive years immediately before graduating from a high school in Florida; apply for enrollment within 24 months after high school graduation; and, submit an official Florida high school transcript as evidence of attendance and graduation. The waiver is applicable for 110 percent of the required credit hours of the degree or certificate program for which the student is enrolled. A student who is granted an out-of-state fee waiver is not eligible for state financial aid. Refer to Tuition Waivers (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/third-party-authorization-and-tuition-waivers/tuition-waivers-non-military) for more information and waiver form.

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

A person who is an honorably discharged veteran of the United States Armed Forces, the United States Reserve Forces, or the National Guard; or entitled to and uses educational assistance provided by the United States Department of Veterans Affairs for a term beginning after July 1, 2015 and who physically resides in Florida while enrolled in the institution are eligible for a waiver of out-of-state fees. The veteran must present to the University a copy of the Department of Defense Form 214 (DD-214) and documentation as proof that the veteran physically resides in Florida. Other persons must present documentation as proof that they physically reside in Florida. Refer to Veteran and Military Students (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/third-party-authorization-and-tuition-waivers/veteran-and-military-students) for waiver form.

**Active Duty Military Waiver Program**

A person who is an active duty member of the Armed Forces of the United States residing or stationed outside of the state is eligible for a waiver of out-of-state fees. The student must submit a copy of their military ID card and a copy of their current military orders. Refer to Veteran and Military Students (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/third-party-authorization-and-tuition-waivers/veteran-and-military-students) for more information and waiver form.
Unsheltered/Homeless Waiver Program
A person who lacks a fixed, regular, and adequate nighttime residence, excluding university housing, or whose primary nighttime residence is a public or private shelter designed to provide a temporary residence for individuals intended to be institutionalized, or a public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for human beings is eligible for a waiver of tuition and associated fees. Students requesting a homeless waiver must be a resident of the state of Florida and are required to provide proof of homelessness (affidavit from a homeless shelter, for example) each semester. Refer to Tuition Waivers (http://uwf.edu/offices/controllers-office/student-accounts-and-cashier/third-party-authorization-and-tuition-waivers/tuition-waivers-non-military) for more information and waiver form.

UWF Employee Tuition Waiver Program
Eligible full-time UWF employees are permitted to take up to six credit hours of undergraduate or graduate coursework at UWF per term (fall, spring, summer) without payment of tuition or mandatory fees. Employees may also assign up to six of their undergraduate credit hours or up to three graduate credit hours to their dependents. Certain portions of course fees are not covered by the waiver and must be paid by the employee or dependent by the fee payment due date. Courses such as directed studies, practicums, internships, music and theater performance, continuing education, and other one-on-one course situations such as theses and dissertations are not authorized. Certain self-funded programs are eligible subject to the availability of funds. Refer to Human Resources (http://uwf.edu/offices/human-resources) for more information.

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

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

Veterans Deferments
- Deferral eligibility is granted to students receiving veterans’ education benefits from federal assistance programs if aid is delayed in transmission to the student through circumstances beyond the student’s control.
- Veterans and other eligible students receiving veterans’ education benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic term. A 90-day deferment may be issued for the fall and spring terms and a 30-day deferment may be issued for the summer and mini terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date.

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

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

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

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

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

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

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

Withdrawals and Military Tuition Assistance (TA)
As a participant in the Department of Defense Voluntary Education Program, the University of West Florida is required to return unearned TA funds to the appropriate military branch of service. TA funds are earned proportionally during an enrollment period. The amount of unearned funds required to be returned is based on when a student stops attending class.

Unearned TA funds that are returned to the appropriate military branch of service 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 account preventing registration, grades and transcripts. If a student is eligible to receive a refund from the University for tuition and fees or other charges, the University will apply the refund against the debt that results from the unearned TA.

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, and Parent Plus Loans). Students who have officially or unofficially withdrawn (stopped attending classes without notification) from all courses before completing 60 percent of the term are not eligible for 100 percent of their federal financial aid.

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

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

**Appeal for Late Fee Assessments and Refunds**

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

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

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

1. Call to or enlisted in active duty military service within the semester.
2. Death of the student or death in the immediate family (parent, spouse, child, sibling).
3. Complete withdrawal of the student from all courses due to illness of the student that is confirmed in writing by a physician, stating that completion of the term is precluded.
4. Administrative/University error.

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

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

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

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

If the appeal is denied, the decision of the Fee Appeals Committee may be appealed first to the University Controller, then to the Vice President for the Finance and Administration Division, as designee of the President, who has final authority within the University.
Residency for Tuition Purposes

Purposes
A Florida “resident for tuition purposes” is a person who has, or a dependent person whose parent or legal guardian has, established and maintained legal residency in Florida for at least twelve (12) consecutive months preceding the first day of classes of the term for which Florida residency is sought.

- Residence in Florida must be a bona fide domicile rather than for the purpose of maintaining a residence incident to enrollment at an institution of higher education.
- To qualify as a Florida resident for tuition purposes, you must be a U.S. citizen, a foreign national in a nonimmigrant visa classification that grants you the legal ability to establish a bona fide domicile in the United States, a permanent resident alien, parolee, asylee, Cuban-Haitian entrant, legal alien granted indefinite stay by the U.S. Citizenship and Immigration Services, or other qualified alien as defined under federal law.
- Other persons not meeting the twelve-month legal residence requirements may be classified as Florida residents for tuition purposes only if they fall within one of the limited special categories authorized by the Florida Legislature pursuant to section 1009.21 (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/Sections/1009.21.html). Florida Statutes (see the Qualification by Exception tab). All other persons are ineligible for classification as a Florida “resident for tuition purposes.”
- Living in or attending school in Florida will not, in itself, establish legal residence. Students who depend upon out-of-state parents for support are presumed to be legal residents of the same state as their parents.
- Residency for tuition purposes requires the establishment of legal ties to the state of Florida. A student must verify that the student has broken ties to other states if the student or, in the case of a dependent student, his or her parent has moved from another state.

Questions regarding residency status upon application and readmission to UWF should be directed to the Office of Undergraduate Admissions (https://uwf.edu/admissions/undergraduate) (undergraduate applicants) or the Graduate School (https://uwf.edu/graduate) (graduate applicants). Questions regarding a change in residency status for currently enrolled students should be directed to the Office of the Registrar (https://uwf.edu/offices/registrar).

Determination of Dependent or Independent Status

Independent Student
Students enrolled in a graduate program (master’s, specialist, or doctoral) are considered independent for residency purposes.

Dependent Student
A dependent student, as defined by s. 1009.21(1)(a) (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/Sections/1009.21.html), Florida Statutes, is eligible to be claimed as a dependent under the federal income tax code by the claimant. The claimant must be a “parent” as defined by s. 1009.21(1)(f) (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/Sections/1009.21.html). Florida Statutes, (i.e., either or both parents of the student, any guardian of a student, or any person in a parental relationship to the student). The parent must have maintained legal residence in Florida for at least the past 12 consecutive months. As defined by s. 1009.21(1)(d) (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/Sections/1009.21.html), Florida Statutes, “legal resident” or ‘resident’ means a person who has maintained his or her residence in this state for the preceding year, has purchased a home which is occupied by him or her as his or her residence, or has established a domicile in this state pursuant to s. 222.17 (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=0200-0299/0222/Sections/0222.17.html). A copy of the claimant’s current IRS tax return is required to establish dependence.

Graduate students wishing to claim dependent status should contact the Graduate School (https://uwf.edu/graduate) (new graduate students) or the Office of the Registrar (https://uwf.edu/offices/registrar) (change of residency status) for required information to prove dependent status.

Documentation to Support Claim of Florida Residency
Per s.1009.21(3)(c) (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/Sections/1009.21.html), Florida Statutes, documentation is required to be submitted either by the student (independent status) or the claimant (dependent status). No single document shall be conclusive in establishing residency.

Claimant must submit two or more forms of documentation from Tier 1 or at least one document from Tier 1 and one or more from Tier 2 of the documents identified below.

Additional documentation, other than what is prescribed, may be requested in some cases. All documentation is subject to verification. Evidence of ties to another state may result in denial of Florida residency for tuition purposes.

Tier 1 Documentation:
- Florida voter’s registration
- Florida driver’s license
- Florida state identification card
- Florida vehicle registration
- Proof of permanent home in Florida occupied as primary residence for 12 consecutive month prior to the student’s enrollment.
  (Required: document such as a deed or other evidence of title to property used as primary residence, a homeowner’s policy, a title insurance policy, evidence of a property tax payment on the primary residence, multiple leases reflecting a Florida address, or a lease of multiple years’ duration.)
- Proof of a homestead exemption in Florida. (Required: document from the county tax collector demonstrating the application of a homestead exemption to the claimant’s primary residence.)
• Official transcripts from a Florida high school for multiple years (2 or more years), if the Florida high school diploma or GED® was earned within the last 12 months.
• Proof of permanent full-time employment in Florida for at least 30 hours per week for a 12-month period. (Required: pay stubs or W-2 form for past 12 consecutive months and/or verification from employers, and/or an IRS 1099 with verification of employment for the past 12 consecutive months from an employer.)

Tier 2 Documentation:
• Declaration of domicile in Florida in accordance with s. 222.17 (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=0200-0299/0222/Sections/0222.17.html), Florida Statutes
• Florida professional or occupational license
• Florida incorporation
• Document evidencing family ties in Florida
• Proof of membership in a Florida-based charitable or professional organization
• Any other documentation that supports your 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.

Qualification by Exception
As permitted by s.1009.21, F.S. (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/Sections/1009.21.html), certain applicants who do not meet residency requirements to be classified as Florida residents for tuition purposes. UWF will require documentation in support of the following exceptions; however, the student does not have to show 12 months of residence in Florida prior to qualifying. These exceptions and qualifications categories are as follows.
• The student is a qualified beneficiary under the terms of the Florida Prepaid College Program (s. 1009.98 (http://www.leg.state.fl.us/statutes/sections/statute-1009-98.html), Florida Statutes.) (Required: copy of Florida Prepaid Recipient card.)
• The student is married to a person who has maintained legal residence in Florida for at least the past 12 consecutive months. The student now has established legal residence and intends to make Florida his/her permanent home. (Required: copy of marriage certificate and/or other documents required to establish residency.)
• The student was previously enrolled at a Florida state postsecondary institution and classified as a Florida resident for tuition purposes and is transferring to another Florida state postsecondary institution within 12 months of the previous enrollment. (Required: evidence of previous enrollment as a Florida resident)
• The student was previously enrolled at a Florida state postsecondary institution and classified as a Florida resident for tuition purposes and abandoned his/her Florida domicile less than 12 months ago and is now re-establishing Florida legal residence.
• Active duty members of the Armed Services of the United States residing in Florida, and their spouses and dependent children, and active drilling members of the Florida National Guard. (Required: copy of military orders or DD2058 showing home of record.)
• Active duty members of the Armed Services of the United States, and their spouses and dependents, attending a Florida College System institution or state university within 50 miles of the military establishment where they are stationed, if such military establishment is within a county contiguous to Florida. (Required: copy of military orders.)
• United States citizens living on the Isthmus of Panama, who have completed 12 consecutive months of college work at the Florida State University Panama Canal Branch, and their spouses and dependent children. (Required: copy of marriage certificate or proof of dependency.)
• Full-time instructional and administrative personnel employed by state public schools and institutions of higher education and their spouses and dependent children. (Required: employment verification)
• Students from Latin America or the Caribbean who receive scholarships from the federal or state government. Any student classified pursuant to this paragraph shall attend, on a full-time basis, a Florida institution of higher education. (Required: proof of scholarship and Latin America or Caribbean residency.)
• Southern Regional Education Board’s Academic Common Market graduate students attending Florida’s state universities. (Required: certification letter from State Academic Common Market Coordinator.)
• Full-time employees of state agencies or political subdivision 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. (Required: employment verification/payment agreement.)
• McKnight Doctoral Fellows and Finalists who are United States citizens. (Required: verification of graduate studies.)
• United States citizens living outside the United States and 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. (Required: proof of enrollment in graduate program for FL teaching certificate.)
• Active duty members of the Canadian military residing or stationed in Florida under the North American Air Defense (NORAD) agreement, and their spouses and dependent children, attending a Florida College System institution or state university within 50 miles of the military establishment where they are stationed. (Required: proof of active duty membership for specified purpose.)
• Active duty members of a foreign nation’s military who are serving as liaison officers and are residing or stationed in this state, and their spouses and dependent children, attending a Florida College System or state university within 50 miles of the military establishment where the foreign liaison officer is stationed. (Required: proof of active duty membership for specified purpose.)

Alabama Differential Out-of-State Tuition
Residents of Alabama are eligible for the Alabama Differential Tuition Plan (http://uwf.edu/offices/registrar/residency/residency-for-tuition-purposes), a reduced out-of-state tuition rate. For more information, new undergraduate students should contact the Office of Undergraduate Admissions (https://uwf.edu/admissions/undergraduate), new graduate students should contact the Graduate School (https://uwf.edu/graduate), and currently enrolled students
should contact the Office of the Registrar (https://uwf.edu/offices/registrar).

Alabama residents must be U.S. citizens, permanent resident aliens, or legal aliens granted indefinite stay by INS, and meet one of the following requirements to qualify for differential tuition:
- Be an independent person, according to the Federal Income Tax Code (students enrolled in a graduate program are considered independent for residency purposes), who has established and maintained legal ties within the state of Alabama as evidenced 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 evidenced 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 evidenced 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 Residency Reclassification form (http://uwf.edu/offices/registrar/residency/residency-reclassification), with copies of supporting documentation attached. The request and documentation must be submitted no earlier than two months (60 calendar days) before the start of a semester and no later than one week (7 days) prior to the first day of classes for any given semester. Refer to the academic calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines).

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.

Reclassification of Residency Status

Students who enter as nonresidents who intend to apply for reclassification after their first year will be required to provide clear and convincing documentation that supports permanent legal residency in the State of Florida for at least twelve (12) consecutive months rather than temporary residency for the purpose of pursuing an education.

Reclassification of residency is highly regulated by the Legislature of the State of Florida. Almost every year, legislation is considered and/or passed that impacts the process. The Reclassification Process is individualized and document-intensive. You should be prepared to provide as much documentation as possible to justify your unique situation. The documentation that you submit must address three basic questions grouped into two parts. Part One: 1) Why did you move to the State of Florida? Part Two: 1) What are your legal ties to the State of Florida? and 2) Were you physically present in the State of Florida for the requisite twelve months? There is not a specific document or set of documents that can be used to determine residency for tuition purposes.

Physical Presence

Establishing physical presence is done by one of two means (must be dated at least one year prior to the first day of classes of the semester for which resident status is sought):
- A residential rental/lease agreement (e.g., rent receipts, canceled checks, or notarized statement from a landlord) or a deed/mortgage (proof of purchase of a permanent home in Florida) in the students name and dated, which the student has resided for at least one year prior to the first day of classes, OR
- Utility and/or Cable Bills for twelve (12) consecutive months in the students name and dated showing proof that the student has maintained residence in Florida for the preceding year. Students without a lease agreement or mortgage should provide a notarized letter explaining their living situation in Florida; i.e. living with family, friends, etc.

Legal Ties/Basis

Documentation establishing domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education must be dated at least one year prior to the first day of classes of the semester for which resident status is sought. The following documents will be considered evidence of domicile even though no single criterion will be considered as conclusive evidence of domicile:
- Florida driver’s license or State of Florida identification card (http://www.flhsmv.gov/ddl/faqkeys.html#USC)
- Florida voter’s registration (http://dos.myflorida.com/elections)
- Florida vehicle registration (https://www.flhsmv.gov)
- Declaration of Domicile (https://cvweb.clerk.leon.fl.us/public/login.asp) in Florida s.222.17 (http://www.leg.state.fl.us/STATUTES/index.cfm?App_mode=Display_Statute&Search_String=&URL=0200-0299/0222/Sections/0222.17.html) with a filing date 12 months prior to the start of classes for the term
- Proof of permanent home in Florida occupied as primary residence for 12 consecutive months prior to the student’s enrollment. (Required: document such as a deed or other evidence of title to property used as primary residence, a homeowner’s policy, a title insurance policy, evidence of a property tax payment on the
primary residence, multiple leases reflecting a Florida address, or a lease of multiple years' duration.)

• Proof of a homestead exemption in Florida. (Required: document from the county tax collector demonstrating the application of a homestead exemption to the claimant's primary residence.)

• 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)

• Transcripts from a Florida high school for multiple years if the Florida high school diploma or GED was earned within the last 12 months

• Documents evidencing family ties in Florida

• Lease agreement and proof of twelve (12) consecutive months of payments

• Utility bills and proof of twelve (12) consecutive months of payments

• State, federal or court documents evidencing legal ties to Florida

• Benefits histories from Florida agencies or public assistance programs

• Florida professional or occupational license

• Florida incorporation

• Proof of membership in a Florida-based charitable or professional organization

• Any other documentation that supports the student's request for permanent residency status in the state

No Contrary Evidence

No contrary evidence establishing or maintaining residence elsewhere.
Graduate Academic 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 Office of the Registrar with questions concerning academic policies and procedures of their current registration, enrollment, or academic records. Registration dates are published in the Academic Calendar (p. 5).

In this section:
- Academic and Departmental Deadlines (p. 34)
- Academic Credit Policies (p. 34)
- Academic Programs and Curricula (p. 35)
- Academic Standing (p. 37)
- Appeals/Waivers/Exceptions (p. 38)
- Class Attendance (p. 40)
- Degree Requirements (p. 41)
- Enrollment (p. 43)
- Grade Adjustment (p. 45)
- Grades (p. 45)
- Graduation (p. 47)
- Registration (p. 48)
- Research Tools (https://uwf.edu/graduate/academics-research/research-resources)
- Student Records (p. 50)
- Technology Requirements (p. 52)
- Transcripts (https://uwf.edu/offices/registrar/grades--transcripts/transcripts)
- Transfer of Credit (p. 53)
- Tuition Waivers (p. 53)
- Withdrawals (p. 54)

Academic Calendar and Departmental Deadlines

Each student should be aware of the deadline dates in the current official Academic Calendar (p. 5) as published by the Office of the Registrar. The Academic Calendar contains deadline dates for admission applications, changes in residency status, class registrations, fee payments, course scheduling changes (drop/add), course withdrawals, thesis and dissertation submissions, and graduation applications.

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

Academic Credit Policies

Academic Credit

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

UWF is responsible for determining the credit hours awarded for coursework in its programs in accordance with the definition of a credit hour for Federal program purposes. A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. For face-to-face (traditional) courses, not less than one class hour (at least 50 minutes) of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester.
2. For laboratory courses, internships, clinical practica, field work, studio work, and other academic work leading to academic credit, one (1) credit hour represents at least an amount of student work equivalent to that outlined in item 1 above.
3. For independent studies, thesis, or dissertation research, one (1) credit hour represents at least an amount of student work equivalent to that outlined in item 1 above.
4. For e-learning, hybrid/blended, and videoconferencing, one (1) credit hour represents at least the equivalent of the direct instructional time and additional student work as that outlined in item 1 above.
5. For professional degree programs, the amount of direct instruction and additional out-of-class student work associated with one (1) credit is determined in accord with the standards of appropriate accrediting agencies and professional organizations but may not be less than the equivalent of that outlined in item 1 above.

In determining the amount of coursework to achieve learning competencies and outcomes, the University will take into account and consider alternative delivery methods, measurements of student work, academic calendars, disciplines, and degree levels.

*UWF AC-19.01 (http://uwf.edu/offices/board-of-trustees/policies)

Definition of a Credit Hour

The institution determines the amount of credit for student work.

1. A credit hour is expected to be a reasonable approximation of a minimum amount of student work in a Carnegie unit in accordance with commonly accepted practice in higher education.
2. The credit hour definition is a minimum standard that does not restrict an institution from setting a higher standard that requires more student work per credit hour.
3. The definition does not dictate particular amounts of classroom time versus out-of-class student work.
4. In determining the amount of work the institution’s learning outcomes will entail, the institution may take into consideration alternative delivery methods, measurements of student work, academic calendars, disciplines, and degree levels.
5. To the extent an institution believes that complying with the Federal definition of a credit hour would not be appropriate for academic and other institutional needs, it may adopt a separate measure for those purposes.
6. Credits may be awarded on the basis of documentation of the amount of work a typical student is expected to complete within a specified amount of academically engaged time, or on the basis of documented student learning calibrated to that amount of academically engaged time for a typical student.
7. The intent of the above flexibility as provided by Federal guidance is to recognize the differences across institutions, fields of study, types of coursework, and delivery methods, while providing a
consistent measure of student work for purposes of Federal programs.

Clock hour (34 CFR 600.2 Definitions): A period of time consisting of
(1) A 50-to-60-minute class, lecture, or recitation in a 60-minute period;
(2) A 50-to-60-minute faculty-supervised laboratory, shop training, or
internship in a 60-minute period; or (3) 60 minutes of preparation in a
correspondence course.

Credit Hour (34 CFR 600.2 Definitions): A credit hour is an amount
of work represented in intended learning outcomes and verified by
evidence of student achievement that is an institutionally established
equivalency that reasonably approximates not less than—

1. One hour of classroom or direct faculty instruction and a
   minimum of two hours of out of class student work each week for
   approximately fifteen weeks for one semester or trimester hour of
   credit, or ten to twelve weeks for one quarter hour of credit, or the
   equivalent amount of work over a different amount of time; or

2. At least an equivalent amount of work as required in paragraph
   (1) of this definition for other academic activities as established
   by the institution including laboratory work, internships, practica,
   studio work, and other academic work leading to the award of
   credit hours.

*UWF AC-19.01 (http://uwf.edu/offices/board-of-trustees/policies)

Modes of Delivery

1. Face-to-Face (“traditional”): A face-to-face course, also called
   “traditional” course, is a course that meets regularly on the
   main campus or at an off-campus educational site and may be
   supplemented with educational technology, including Internet-
   based technology, to enhance student learning.

2. E-learning: An e-learning course is one which is fully online
   and completely delivered over the web with no in-class requirements.
   In this model, there is no physical classroom assigned although a
   professor may opt for students to meet for a proctored examination
   or course orientation, taking into account that some students are
   remote and unable to come to the UWF campus. Accommodations
   will be made for such students.

3. Hybrid/Blended: A hybrid/blended course is one in which a
   combination of strategies are used in a distance environment.
   A classroom will be assigned for hybrid students, but there will
   be reduced time spent in the classroom. Components of the
   course may include asynchronous online delivery, video or web
   conferencing or some other technological media for out of class
   time. Students will not only need to be able to get to class for in-
   class meetings, but also are required to have access to the Internet
   for web-based class meetings. This model works especially well
   if trying to utilize classroom space to the fullest. This is a very
   convenient approach for storing class materials, emailing students
   throughout the week between class meetings, storing URLs
   and other references, and for assigning interactive homework
   assignments such as participating in an online chat or threaded
   discussion.

4. Videoconferencing: A videoconferencing course provides delivery
   through the Videoconferencing classrooms located on the main
   campus or other UWF instructional sites, and linking through video
   or web conferencing platforms out to the virtual video classroom
   for students who access via their computer.

*UWF AC-19.01 (http://uwf.edu/offices/board-of-trustees/policies)

Directed Studies

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

See the Registration Policies (p. 50) section of this Catalog for more
information.

Nontraditional Credit - Credit by
Proficiency

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

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

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.

Academic Programs and
Curricula

Catalog Year

Continuous Enrollment and Catalog Year

Catalog year determines the set of academic requirements that must
be fulfilled for graduation. Generally, the Catalog year is determined at
the time of admission. Students also have the option of choosing the
Catalog year in effect at the time of graduation. Students must follow
a single catalog, not a combination of catalogs, to meet graduation
requirements.

A student who has completed at least 1 credit within three consecutive
semesters (summer included) is considered to have satisfied the
minimum requirements for “continuous enrollment.”

Continuously Enrolled Degree-Seeking
Students

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

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

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. Refer to the listing of Graduate Certificate Programs (http://catalog.uwf.edu/graduate/certificateprograms) for more information.

Student Information on Credit-Bearing Certificates:

University Policy, AC-13.02 (http://uwf.edu/offices/board-of-trustees/policies)

1. Concurrent Enrollment: Students who are currently enrolled as degree seeking students at the University and who wish to pursue simultaneously a certificate must have their academic advisor complete the Graduate Certificate Declaration Form (https://marina.uwf.edu/gradcert). Upon approval of the head of the unit offering the certificate, applicable courses taken at UWF prior to applying to a certificate program may be applied to a certificate.

2. Transfer Courses: Upon approval of the head of the unit offering the certificate, students may transfer one course (normally 3 semester hours) with equivalent content from an institution that is fully accredited by a regional or national accrediting agency recognized by the United States Department of Education or must be a course with equivalent content from an institution meeting standards equivalent to those which are accredited by a regional or national accrediting agency recognized by the United States Department of Education. Course applicability will be determined by the offering department(s).

Change of Program

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

Doctoral Program

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

Accelerated Bachelor's to Master's Programs

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

Admission to an ABM Program

Refer to the ABM Admission Information (p. 12) 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 bypass the bachelor's degree.

• Students must meet all Graduate School and departmental regular admission requirements.

• Students must receive a grade of "B" or better in each of the graduate level courses that are being applied to both degrees. Courses with a grade of "B-" or below cannot be applied to the master's degree.

• No more than twelve (12) SCH 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 SCH 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 their eligibility status.

• If a student completes the bachelor's degree requirements with an accumulated GPA of less than 3.25, then they are 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 their
academic expectations. A copy of this letter to the student must be sent to the Graduate School.

**Graduate Assistantship Eligibility**

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

**Withdrawal**

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

*AC-20.02-12/16 ([https://uwf.edu/offices/board-of-trustees/policies](https://uwf.edu/offices/board-of-trustees/policies))

**Academic Standing**

**Academic Probation, Suspension, Reinstatement, and Dismissal**

Undergraduate, Graduate and Non-Degree Seeking and Faculty Senate policy approval on 10/2013, Academic Standing is a formal notice of a student's academic progress. The rules are intended to define what is expected of students and give them an opportunity to meet the University's academic expectations. At the end of each semester (fall, spring, summer), each student’s academic standing is reviewed for action.

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

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

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

*UWF/REG 3.008 ([http://uwf.edu/offices/board-of-trustees/regulations](http://uwf.edu/offices/board-of-trustees/regulations))

**Good Academic Standing**

A master’s, specialist, or doctoral degree-seeking student who is on Academic Probation or on Academic Suspension is not in good academic standing. All other students are in good academic standing. A student must be in good academic standing in order to graduate.

**Academic Probation**

The intent of academic probation is to serve formal notice that a student may not be making satisfactory progress. It gives students an opportunity to demonstrate their ability to meet the University’s academic expectations.

**Master's and Specialist**

A master's or specialist student will be placed on Academic Probation by the dean of the college in which the student is enrolled at the completion of the semester during which their cumulative UWF graduate GPA falls below 3.0.

**Doctoral**

A doctoral student will be placed on Academic Probation by the dean of the college in which the student is enrolled at the completion of the semester during which their cumulative UWF GPA falls below 3.25.

**Returning to Good Academic Standing**

**Master's and Specialist**

A master's or specialist student on Academic Probation may return to good academic standing by achieving a cumulative UWF GPA of 3.0 for the next academic semester of attendance following the date that the student was placed on Academic Probation.

**Doctoral**

A doctoral student on Academic Probation may return to good standing by achieving a cumulative UWF GPA of 3.25 for the next academic semester of attendance following the date that the student was placed on Academic Probation.

**Academic Suspension**

**Master's and Specialist**

A master's or specialist student not achieving a cumulative UWF GPA of 3.0 during any semester while they are on Academic Probation may be placed on Academic Suspension from the program. The dean of the college in which the student is enrolled makes the final decision, based on input from the respective college committee, on whether the student is placed on or remains on academic suspension.

**Doctoral**

A doctoral student not achieving a cumulative UWF GPA of 3.25 during any semester while they are on Academic Probation may be placed on Academic Suspension from the program. The dean of the college in which the student is enrolled makes the final decision, based on input from the respective college committee, regarding which students are placed on or removed from Academic Suspension. However, students who have three consecutive semesters on probation must be placed on suspension.

**Applications while on Academic Probation or Academic Suspension**

**Master's and Specialist**

With the approval of the department chairperson and college dean for the program from which the student was on probation or suspension, a student on Academic Probation or Academic Suspension from a graduate program may apply for admission to another UWF graduate program provided requirements for admission to that program are met.

**Doctoral**

With the approval of the department chairperson and college dean, a student on Academic Probation or Academic Suspension from a doctoral program may apply for admission to another UWF graduate program provided requirements for admission to that program are met.
Appeal of Academic Suspension
A master's, specialist, or doctoral student may appeal an Academic Suspension in writing to the Provost (or designee). The following are the permitted bases for requesting an appeal:

1. there was a death in the immediate family of the student (parent, spouse, child or sibling),
2. the student suffered an illness or other event that was of such severity or duration that it actually precluded the student from being able to satisfactorily attend to their studies,
3. a member of the student's immediate family suffered an illness that was of such severity or duration that it actually precluded the student from being able to satisfactorily attend to their studies, and
4. the student was called to active military service, or National Guard troop service for such a duration that it precluded the student from being able to satisfactorily attend to their studies.

Reinstatement after Academic Suspension

Master's and Specialist
A student suspended from a graduate program may be considered for reinstatement by the dean of the academic college after the lapse of one academic semester during which the student is not enrolled at UWF.

In the first semester of approved reinstatement a student who achieves a semester UWF GPA higher than 3.0, but a cumulative UWF GPA lower than 3.0, will continue on Academic Probation. A student who fails to achieve a semester GPA of higher than 3.0 in the first semester of approved reinstatement will be suspended from the program.

Doctoral
A student suspended from a doctoral program may be considered for reinstatement by the academic college dean after the lapse of one academic semester during which the student is not enrolled at UWF.

In the first semester of approved reinstatement a student who achieves a semester UWF GPA higher than 3.25, but a cumulative UWF GPA lower than 3.25, will continue on Academic Probation. A student who fails to achieve a semester GPA of higher than 3.25 in the first semester of approved reinstatement will be suspended from the program. A student who has been suspended three times is not eligible for reinstatement.

Dismissal Policy

(Individual programs may have stricter guidelines listed in the University catalog.)

Students can be dismissed from a master's, specialist, or doctoral program for the following reasons:

1. failing to meet academic standards,
2. failing to make sufficient progress towards a degree as determined by department,
3. failing to meet professional standards of the discipline,
4. denied reinstatement after academic suspension,
5. failing to apply for reinstatement in the 3 semesters following the semester of suspension, or
6. being suspended for the second time.

Appeal of Dismissal
A master's, specialist, or doctoral degree-seeking student may appeal a dismissal in writing to the Provost (or designee).

Non-Degree Students
A student who is not seeking a degree while at UWF, but enrolls in classes is classified as a Non-Degree Student. Although not seeking a degree, such a student is subject to the same Academic Probation, Academic Suspension, and Reinstatement policies as a degree-seeking student by level of courses in which the student enrolled.

Appeals, Waivers, and Exceptions

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

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

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

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

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

- Late or retroactive drops or withdrawals
- Late registration appeals
- GPA requirements
- Graduation requirements

The Academic Appeals Committee (AAC) is established under the authority of the President of the University of West Florida to respond to and determine the outcome of appeals related to university level academic requirements.
The AAC provides a university-wide forum for the review of university level requirements. Appeals must be in writing on the appropriate forms and signed by the academic advisor, department chairperson, and college dean. For more information, see the Starting an Academic Appeal instructions (https://confluence.uwf.edu/display/public/Starting+an+Academic+Appeal). Appeals should include any and all appropriate documentation to support the appeal. When all documentation is received, the Committee will consider the appeal and issue a decision within fifteen (15) business days.

**Registration Appeals**

The Office of the Registrar reviews appeals related to late registration and schedule adjustments (drop/add). Appeal forms (https://uwf.edu/offices/registrar/resources/forms/#den86366) and Instructions for Starting an Appeal (https://confluence.uwf.edu/display/public/Starting+an+Academic+Appeal) are available through the Office of the Registrar.

**Grade Appeal**

Students should consult University Policy AC-16.02 (http://uwf.edu/offices/dean-of-students/dean-of-students/other-processes) for information on appealing grades. Consult the Student offices/board-of-trustees/policies) for information on appealing grades. Grade appeals for courses cross-listed with another office may be submitted to the university-wide Academic Appeal Committee. The Committee will consider the appeal and issue a decision within fifteen (15) business days.

### Grade Appeal

1. **A student wishing to contest a final course grade must first contact the course instructor to initiate a verbal or written appeal.** The student must initiate contact within 30 calendar days of the grade being available for the student to view online. The student must present a rationale for the appeal and a preferred resolution.

2. **The course instructor receiving the verbal or written appeal shall respond in writing to the appeal within 10 calendar days.** Should the course instructor agree with the appeal, he or she will process an appropriate grade change in a timely fashion. In the event that the course instructor is not available (e.g., no longer employed, on sabbatical, or other long term absence from the workplace) to receive and respond to the grade appeal the student shall submit the written appeal to the Department Chair or School Director.

3. **The Department Chair or School Director shall review the appeal, discuss it with the course instructor and/or pertinent individuals and respond within 10 calendar days of receiving the appeal.** The Department Chair or School Director will provide the student and course instructor with a written response of their findings and decision.
   a. If the decision is in favor of the student, the course instructor will be provided with an opportunity to submit a written rebuttal within 10 days. If no rebuttal is submitted a grade change will be issued.
   b. If the decision is not in favor of the student, the student may accept the decision or appeal to the next level.
      i. An appeal to the decision must be submitted within 10 calendar days to the Office of the Dean of the College in which the course is taught.
      ii. The appeal must be in writing and state the grounds for the appeal.
   c. The Dean shall review the student’s appeal and the course instructor’s rebuttal and respond within 10 calendar days of receipt.

### UWF Academic Misconduct Code

The University of West Florida is dedicated to the highest principles and standards of academic integrity. An academic violation by a student can negatively impact a class, program and/or college in ways that are unique to each discipline. Therefore, the University believes that the severity of an academic infraction is best evaluated by the faculty of the institution. The University seeks to offer students an opportunity to respond to allegations of academic misconduct before a decision is rendered. This regulation seeks to provide faculty and students with a fair process for addressing allegations of academic misconduct.

#### Forms of Academic Misconduct

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

1. **Cheating:** Using or attempting to use material or information where such use is not expressly permitted by the instructor. Some examples include but are not limited to: A) Exams or quizzes B) Homework/Assignments C) Discussion board posts D) Lab activities or reports

2. **Academic Theft:** Obtaining examinations, quizzes, or other academic materials without authorization.

3. **Plagiarism:** Representing the words, data, works, ideas, computer program or output, or anything not self-generated as one’s own. Some examples of plagiarism include but are not limited to: A) Copying phrases, sentences, sections, paragraphs or graphics from a source and not giving credit by properly quoting or citing the source. B) Having another person write an assignment (for pay or for free) and submitting it as one’s own. C) Modifying or paraphrasing another’s ideas or writings and submitting them as one’s own.

4. **Resubmission of Work:** Resubmitting a paper, assignment, or portion thereof that the student originally created for another assignment or course constitutes academic misconduct unless: A) Both instructors in concurrent courses expressly agree to accept the same work; or B) an instructor expressly agrees to accept previously submitted work.

5. **Fabrication:** Presenting, as genuine, any invented, falsified, or inaccurate citation, data, or material.

6. **Bribery:** The offering, giving, receiving or soliciting of anything of value to influence a grade or other academic evaluation.

7. **Misrepresentation:** Any act or omission taken with intent to deceive an instructor or the University so as to affect a grade, a student’s academic performance or to gain admission to a program or course.

8. **Facilitation:** Knowingly contributing to, assisting, or planning with others to engage in Academic Misconduct, or failing to inform the proper authorities when a violation has occurred regardless of one’s participation.

9. **Violation of professional standards or ethics as defined by the academic program.**

Students should contact the Dean of Students Office (https://uwf.edu/offices/dean-of-students) for more information.

*AC-16.02-01/14 (https://uwf.edu/offices/board-of-trustees/policies)"
Grievances

Students may address concerns through various procedures provided at UWF. Students who are dissatisfied with a University decision regarding fees, grades, financial aid, parking fines and other issues, may appeal those decisions through the specific appeal processes corresponding to those decisions. More information and details on the appeal procedures for University decisions is available through the Dean of Students Office (https://uwf.edu/offices/dean-of-students/dean-of-students/other-processes).

- Students may seek assistance in navigating appeal process from the SGA Student Advocate (https://uwf.edu/offices/dean-of-students/dean-of-students/student-advocate) or the UWF Student Ombudsperson (https://uwf.edu/offices/dean-of-students/dean-of-students/student-ombudsperson).

Students who believe that the conduct of individual University employees collective departments or services is unjust, inequitable, or creates an unnecessary hardship, or who believe that a policy has been misapplied to them may seek

- assistance from the Student Ombudsman (https://uwf.edu/offices/dean-of-students/dean-of-students/student-ombudsperson) or the Dean of Students office (https://uwf.edu/offices/dean-of-students),
- redress by filing a student grievance (https://uwf.edu/offices/dean-of-students/dean-of-students/other-processes), as long as there is no other existing appeal process for that set of conditions.

Students who believe they have been subject to unlawful discrimination may, and are encouraged to, report this information to any of the following persons:

- their immediate supervisor
- any vice president
- Associate Vice President for Human Resources (https://uwf.edu/offices/human-resources/about-us/meet-our-staff)
- Coordinator for Equal Opportunity Programs (https://uwf.edu/offices/equity-diversity/departments/equal-opportunity-programs)
- Dean of Students (https://uwf.edu/offices/dean-of-students)
- Director of Housing and Residence Life (https://uwf.edu/offices/housing-and-residence-life/contact-us/meet-our-staff)
- Office of the General Counsel (https://uwf.edu/offices/general-counsel)

Students who believe they have been harmed by other students should seek guidance from the Dean of Students Office (https://uwf.edu/offices/dean-of-students). Students should contact the Dean of Students Office (https://uwf.edu/offices/dean-of-students) for more information.

*UWF/REG 3.011 (https://uwf.edu/offices/board-of-trustees/regulations/#form)

Other Appeals

Other appeal processes, including those listed below, can be found at the University Appeals Process webpage (https://uwf.edu/offices/dean-of-students/dean-of-students/other-processes).

- Academic misconduct code appeals (https://uwf.edu/offices/dean-of-students/dean-of-students/other-processes)
- Academic probation and suspension appeals (https://confluence.uwf.edu/pages/viewpage.action?pageId=20611500)
- Late class or University withdrawal appeal (https://confluence.uwf.edu/x/MdNMB)
- Waiver of graduation requirement appeal (https://marina.uwf.edu/acadappeal)
- Reinstatement after removal for non-payment appeal (http://uwf.edu/offices/registrar/resources/forms)
- Fee appeals (https://uwf.edu/offices/controllers-office/student-accounts-and-cashier/fee-appeal/fee-appeal-information)
- Repeat course surcharge waiver appeal (http://uwf.edu/offices/registrar/resources/forms)
- Discrimination, harassment and retaliation complaints (https://uwf.edu/offices/equity-diversity/departments/equal-opportunity-programs)
- Financial aid appeals (http://uwf.edu/offices/financial-aid/satisfactory-academic-progress/satisfactory-academic-progress) (satisfactory academic progress and other financial aid related appeals)
- Grade appeals (https://uwf.edu/offices/dean-of-students/dean-of-students/other-processes) (AC-16.02 (https://uwf.edu/offices/board-of-trustees/policies))
- Housing charges appeals (https://uwf.edu/offices/housing-and-residence-life/forms/housing-appeals)
- Housing Cancellation appeals (https://uwf.edu/offices/housing-and-residence-life/forms/request-housing-cancellation)
- Library fine appeals (https://secure.uwf.edu/library/forms/library-charges-appeal-form)
- Parking fine appeals (https://confluence.uwf.edu/pages/viewpage.action?pageId=15181014)
- Residency for in-state tuition appeals (https://uwf.edu/offices/registrar/resources/forms/#den86372)
- Student conduct code appeals (http://uwf.edu/offices/dean-of-students/office-of-student-rights-and-responsibilities/student-code-of-conduct)

**Class Attendance**

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. 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 members must allow each student who is absent due to a reason recognized as an “excused absence,” as set forth below, the opportunity to make up work missed without any reduction in the student’s final course grade as a direct result of such an absence.

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 in accordance with UWF/REG 3.041 (https://uwf.edu/offices/board-of-trustees/regulations), Religious Observances.
- Absences for imposed legal responsibilities (e.g., jury duty, court appearances) and military obligations 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, or other sound reasons offered by the student may be accepted as excused absences.

*UWF AC-33.01-12/14 (https://uwf.edu/offices/board-of-trustees/policies)

**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.

**Degree Requirements**

**Master's Degree Requirements**

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

- Students must be admitted and enrolled at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
- Completion of a minimum of 30 semester hours in an approved program;
- Completion of a minimum of 15 semester hours of coursework at the 6000 level or above;
- Completion of a minimum of 24 semester hours of credit at UWF. The department offering the program may require additional residency;
- Graduate GPA of a minimum of 3.0, refer to GPA Requirement (p. 47) for more information;
- Complete degree requirements within six years from the date the UWF degree is awarded, refer to the Time to Degree (p. 43) requirement for more information;
- A degree will not be awarded for a student on academic probation or suspension;
- A maximum of 6 semester hours of credit may be applied toward a master's degree for successful completion of a thesis (p. 43);
- Master's students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

**Requirements for Second UWF Master's Degree**

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

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

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

**Specialist Degree Requirements**

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

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

Requirements for Second UWF Specialist Degree
Requirements listed below are applicable for students who already hold a specialist degree from UWF or who are pursuing two specialist degrees simultaneously. Students who have earned a specialist degree from another institution must meet the requirements listed under Specialist Degree Requirements.

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

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

Doctor of Education Degree Requirements
For detailed information, refer to the policies and procedures available on the Ed.D. Program web page. To be eligible for an Ed.D. degree, a student must meet the following requirements:

- Students must be admitted to the program by the Ed.D. Program Committee and Dean and enrolled at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
- Complete an approved degree plan with a minimum number of hours as identified in the program of study. No more than 6 semester hours may be transferred from another institution that were earned within five years of the date of admission to the UWF Ed.D. Program;
- Complete the residency requirement: Students establish residency when they enroll in at least 24 semester hours in two consecutive academic years (includes summer sessions). The Ed.D. program director monitors and verifies student compliance with the provisions of this requirement;
- Students must successfully complete an APA seminar during their first or second semester in the program;
- Complete the Comprehensive Examination during the specified time frame and move to Advanced Standing;
- Complete all requirements for the pre-proposal phase of the doctoral journey;
- 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 any coursework counted toward the degree. Obtaining grades lower than B in two courses will result in an appointment with the Ed.D. Academic Advisor to explore alternative ways to complete the doctoral program and may result in dismissal from the program. The report from the Ed.D. Academic Advisor on each student in this category shall be submitted to the Ed.D. Committee Policy Group for further deliberations on the students’ future participation in the doctoral program.
- Successfully complete and orally defend a dissertation;
- Be recommended for graduation by the doctoral committee, departmental chairperson, the Ed.D. Program Office, and the CEPS Dean’s office;
- All degree requirements must be completed within seven years from the date of admission;
- A degree will not be awarded for a student on academic probation or suspension;
- Doctoral students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students should contact their program of study advisor to determine the minimum hours and courses in which to enroll. Students who need to be readmitted will be required to meet the degree requirements of the current Catalog.

Dissertation Course Registration Requirements and Grading
Dissertations are to be prepared in accordance with the specifications given in the Dissertation Template and the Structural Guidelines for Traditional Proposals and Dissertations provided in the Dissertation Toolbox Portal (https://uwf.edu/ceps/support-resources/doctoral-digital-platform/resources/dissertation-toolbox). All dissertations must be produced in electronic format (unless a hard copy is required by the individual department). Deadlines for submission of dissertations to the Graduate School can be found on the Graduate School page under Thesis and Dissertations (https://uwf.edu/graduate/academics-research/theses-and-dissertations).

Doctoral candidates are required to register for a minimum of 18 semester hours of dissertation coursework. Candidates must register for a minimum of 3, but not more than 6, semester hours each semester (excluding summer terms) until they have registered for a cumulative total of 18 semester hours of doctoral dissertation coursework. Thereafter, candidates are required to register for a minimum of 2 semester hours of dissertation coursework each consecutive semester (excluding summer) until the student has completed 24 semester hours of dissertation work. A maximum of 24 semester hours of dissertation credit may be applied toward a doctoral degree for successful completion of a dissertation. Upon completion of 24 semester hours of dissertation credit, the student will be reevaluated by the doctoral committee chair and committee to determine if the student can complete the dissertation. If the doctoral committee determines that the student can complete the dissertation, the student will be required to register for 3 semester hours of dissertation coursework each semester until the doctoral committee approves the dissertation. Once the doctoral committee has approved the dissertation, the candidate must continue to register for 1 credit hour per semester until the dissertation is approved by the Graduate School and submitted to ProQuest.
Candidates shall maintain in 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 EdD program. Registration for dissertation credits in the summer semesters are not included in the "active status rule." It is strongly suggested that students make arrangements with individual professors they are working with to be certain that they will be available in the summer semesters to work with them since faculty are not on contract. 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.

**Degree Audit System**

Degree Works will identify and track all graduation requirements for each degree at the University. Students may check their individual progress toward degree completion by reviewing their degree audit, which is available in MyUWF (https://my.uwf.edu). The degree audit is used for the final graduation check and a completed audit is required before a degree is awarded.

**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.

**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.

**Thesis Requirement**

Theses are to be prepared in accordance with the specifications given in the UWF Thesis Guide (https://uwf.edu/graduate/academics-research/theses-and-dissertations) prepared by and available in the Graduate School. All theses must be produced in electronic format (unless a hard copy is required by the individual department). Deadlines for submission to the Graduate School are posted on the Graduate School's Theses and Dissertations page (https://uwf.edu/graduate/academics-research/theses-and-dissertations).

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

**Time to Degree**

**Master's**

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

**Specialist/Doctoral**

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

**Tool of Research Requirement**

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

**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.

**Enrollment**

**Enrollment Definitions**

Enrollment is defined as consisting of three major components:

1. **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.
2. **Registration:** Students register for courses and provide information needed to assess fees and tuition.
3. **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.

**Certification of Enrollment**

The University of West Florida reports enrollment status based on the definitions listed below. Information on enrollment is reported through the National Student Clearinghouse (http://uwf.edu/offices/registrar/...
registration/enrollment-certification) (NSC) and is available for the semester beginning the first week of classes.

- Students participating in internships are not automatically considered full-time for the semester of their internship. The number of hours for an internship is based upon the credit hours granted for the internship.
- Non-degree students’ enrollment status is reported based on the level of the non-degree program.
- Students enrolled in a dissertation, thesis, or cooperative education are considered full time regardless of the hours enrolled.
- Students who withdraw are not considered enrolled in the course once the withdrawal has been processed, and enrollment status will be adjusted as of that time.
- Students receiving Financial Aid should confirm requirements for financial aid eligibility.
- Graduate Student-Veterans receiving V.A. Educational Benefits enrolled in a (non-standard) part of term will have their training time reported according to the length of a session as defined by the Veteran Affairs Administration.

<table>
<thead>
<tr>
<th>Status</th>
<th>Fall/Spring</th>
<th>Summer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Time</td>
<td>6 SH or more</td>
<td>6 SH or more</td>
</tr>
<tr>
<td>Three-Quarter</td>
<td>5 SH</td>
<td>5 SH</td>
</tr>
<tr>
<td>Half-Time</td>
<td>3-4 SH</td>
<td>3-4 SH</td>
</tr>
<tr>
<td>Less than Half-Time</td>
<td>0-2 SH</td>
<td>0-2 SH</td>
</tr>
</tbody>
</table>

**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.

**Classification of Students**

The classifications for graduate students are as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters</td>
<td>A student admitted to a master’s program and completing work at the master’s level.</td>
</tr>
<tr>
<td>Specialist</td>
<td>A student admitted to a specialist program and completing work at the specialist level.</td>
</tr>
<tr>
<td>Doctoral</td>
<td>A student admitted to the doctoral program and completing work at the doctoral level.</td>
</tr>
<tr>
<td>Non-Degree Student</td>
<td>A student who currently is not a candidate for a degree or diploma.</td>
</tr>
</tbody>
</table>

**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.

Coursework completed as a non-degree student will be included in the respective graduate level (master’s, specialist, doctorate) GPA, determined by the level of the course. Returning non-degree students who do not maintain continuous enrollment (p. ) must file a new non-degree student application in the Graduate School.

To be considered for degree status, students must contact the Graduate School and complete the required application. Graduate students may apply a maximum of 12 semester hours completed as a non-degree seeking student toward a graduate degree once admitted into a graduate program. Students should contact Graduate Admissions (https://uwf.edu/graduate) for more information concerning this process.

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.

The non-degree student registration period begins approximately two weeks prior to the first day of classes for the semester – see the Academic Calendar (p. 5) for specific dates.

**Helpful Information**

- **Immunizations**: UWF requires the completed UWF Mandatory Immunization Health History Form to be submitted to Student Health Services as a prerequisite to matriculation or registration. More information on the UWF Immunization Policy is provided by Student Health Services (https://uwf.edu/offices/student-health-services/immunizations/uwf-immunization-policy).
- **International Students**: International students in F-1 status should consult with the Director of International Services (https://uwf.edu/offices/international-affairs/programs-and-services/international-services) regarding enrollment as a non-degree student.
- **Parking**: Parking a vehicle on campus requires a parking decal which can be purchased online through Parking and Transportation (https://uwf.edu/offices/business- auxiliary-services/parking-and-transportation/parking-permits).
- **Student ID Card**: All Pensacola campus students are required to purchase a Nautilus Card (https://uwf.edu/offices/business-auxiliary-services/nautilus-card/nautilus-card-overview).
- **Student Policies**: Non-degree students are subject to the student policies stated in the current Catalog and Student Handbook (https://uwf.edu/offices/enrollment-and-student-affairs-division/plans-policies-and-publications).
- **Student Privacy**: Non-degree students should review the Student Educational Records (p. 50) section of the current Catalog to understand privacy information.

See the Registration (p. 50) section of this Catalog for more information.

**Academic Common Market**

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

The Academic Common Market serves residents of the following 15 southern states: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.
Students must be admitted to the appropriate degree program by the Graduate School, and the letter of certification must be received in the Office of the Registrar before the first day of classes for the effective term. Information on the state authorization of programs, the identity of the coordinator for a particular state, and UWF programs affiliated with the Academic Common Market can be found at http://www.sreb.org/page/1304/.

Southern Regional Education Board's (SREB) Electronic Campus

The University of West Florida is a participating member of the SREB’s Electronic Campus, which is a marketplace for courses and programs offered by colleges and universities through electronic methods. Over 200 colleges and universities offer courses through SREB Electronic Campus, enabling students across the South to take courses without leaving their hometowns. All courses are offered by accredited colleges and universities in the Southern Regional Education Board states and exceed the Principles of Good Practice developed by the SREB Electronic Campus. Students may access the SREB Electronic Campus at sreb.org/electronic-campus (https://www.sreb.org/electronic-campus). 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.

Grade Adjustment

Grade Changes

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

Grades of Incomplete

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

- The instructor may assign a grade of “I,” provided the student has satisfactorily completed at least 70 percent of the course requirements and the student has a grade of at least C– or S (satisfactory) in coursework up to that point in time. Students who receive an involuntary call to active military duty should consult with their instructors.
- The “I” becomes an “F” at the end of the next regular semester (summer excluded) unless the grade is changed by the instructor to a letter grade “A-F.” The student is responsible for contacting the department for a grade change or extension prior to the end of the last instructional day of that semester. Instructors may approve extensions only for extenuating circumstances and only for a maximum of 12 months.
- Students receiving grades of incomplete should not re-register for courses in which an “I” has been assigned.
- When assigning an incomplete grade “I,” instructors should complete a “Report on Assignment of Incomplete Grade.” This will assist students in understanding the requirements for completing a course, and it will provide necessary information in the event the instructor is not available to monitor the completion of the requirements.
- An “I” grade will be converted to an “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 through the chairperson and the dean. For the purposes of honors designation*, the grade change that replaces an incomplete grade subsequent to a student’s receiving a degree will not change the student’s baccalaureate honors associated with the degree. The student’s transcript will be annotated to show that the course requirements were completed after graduation.

*Honors designation only applies to undergraduate students.

Repeated Courses

Undergraduate Students

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 unless grade forgiveness is used (see Grade Forgiveness (http://catalog.uwf.edu/undergraduate/gradeadjustment/#gradeforgiveness)). Per AC-34.01 (http://uwf.edu/offices/board-of-trustees/policies), the Undergraduate Student Progress to Degree policy, the highest grade will be counted for credit. Students may not repeat a course for which they earned a grade of C or above.

Graduate Students

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.

Grades

Grading System

Per UWF REG 3.031 (http://uwf.edu/offices/board-of-trustees/regulations), 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>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>Outstanding</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>Above average</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>Above average</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>Above average</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>Average</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>Average</td>
<td>1.70</td>
</tr>
<tr>
<td>D+</td>
<td>Below average</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>Below average</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.00</td>
</tr>
<tr>
<td>NF</td>
<td>Non-attending/Fall</td>
<td>0.00</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
<td>0.00</td>
</tr>
<tr>
<td>CR</td>
<td>Credit Awarded - Accelerated</td>
<td>**</td>
</tr>
<tr>
<td>G</td>
<td>Deferred (Thesis/ Dissertation only)</td>
<td>**</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>**</td>
</tr>
<tr>
<td>I*</td>
<td>Grade Not Reported</td>
<td>**</td>
</tr>
<tr>
<td>Grade</td>
<td>Description</td>
<td>Foreign</td>
</tr>
<tr>
<td>-------</td>
<td>------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td></td>
</tr>
<tr>
<td>TR</td>
<td>Withdrawal with full refund</td>
<td></td>
</tr>
<tr>
<td>AW</td>
<td>Administrative Withdrawal</td>
<td></td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td></td>
</tr>
<tr>
<td>WR</td>
<td>Withdrawal and partial refund of fees</td>
<td></td>
</tr>
<tr>
<td>X</td>
<td>Audit</td>
<td></td>
</tr>
<tr>
<td>XX</td>
<td>No Grade</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>Withdrawn (W or WF not yet reported)</td>
<td></td>
</tr>
</tbody>
</table>

** Grade not included when computing the GPA.

Student teaching, practica, and special courses are graded as satisfactory or unsatisfactory ("S" or "U"). Other courses at the undergraduate level only may be taken under a pass or fail ("P" or "F") option. Pass or Fail (P/F) grades are not utilized for graduate courses.

In computation of the required grade point average (GPA) for academic standing and conferral of a degree, the total number of quality points (grade points multiplied by course semester hour credits) is divided by the total number of semester hours for which letter grades are received (see the Grading System for grade points table above). All academic requirements tied to a specific grade average should be interpreted to mean the numerical average associated with that specific grade. Hence, the required "C average or better" is interpreted as "2.0 average or better."

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

### Audit Grading

With the approval of the student’s assigned Academic Advisor, students may choose to audit a course using the Grade Mode Change form (http://uwf.edu/offices/registrar/resources/forms).

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 Dates and Deadline (p. 5)). Students must have the instructor’s permission to change to an audit after the end of the drop/add period.

Out-of-State fees are not assessed for audit courses. Out-of-State students changing from audit to the conventional letter grade system will be assessed out-of-state fees.

*Faculty Senate 7/1/1999

### Grade Point Average (GPA) Types

All three GPA types listed below are reflected on the unofficial and official UWF transcripts.

#### Institutional/University Cumulative (UWF) GPA

The institutional cumulative (UWF) GPA is the sum of all UWF quality points earned divided by the number of all UWF hours attempted (except for those hours with grades of CR, G, I, I*, P, S, TR, AW, W, WR, X, XX or *, and UWF hours repeated for which the grade forgiveness or term forgiveness policy was subsequently invoked). The resulting quotient is the total institutional cumulative (UWF) GPA.

The UWF cumulative GPA is the determining GPA used for degree completion and conferral of degrees.

#### Total Transfer GPA

The total transfer GPA is calculated using those courses UWF considers transferable. The sum of quality points earned in transferable courses from other institutions is divided by the number of semester hours transferable from other institutions. The resulting quotient is the total transfer GPA.

#### Overall Cumulative GPA

The overall cumulative GPA is the sum of all quality points earned at UWF and in transferable courses from other institutions divided by the number of all UWF hours attempted (except those hours with grades of CR, G, I, I*, P, S, TR, AW, W, WR, X, XX or *, and UWF hours repeated for which the grade forgiveness or term forgiveness policy was subsequently invoked) plus the number of semester hours transferable from other institutions. The resulting quotient is the overall cumulative GPA.

### Grade Point Averaging and Deficits

The term average refers to the grade point average (GPA) for work completed in the current or most recent academic program attended at the University of West Florida. Grades received at other institutions are NOT averaged with grades received at the University of West Florida for the purpose of meeting the university/institutional cumulative GPA requirements. Other agencies and honorary societies will compute averages in accordance with their own standards and policies.

Averages are determined by computing the ratio of grade points to semester credits attempted. For the grade point average computation formula, please refer to the example below.

#### Calculating the Grade Point Average

Grade Point Averages (GPA) are calculated by dividing the total number of Grade Points by the number of Credit Hours enrolled. Each grade has a specific number of points assigned to it:

- A: 4.00
- A-: 3.70
- B+: 3.30
- B: 3.00
- B-: 2.70
- C+: 2.30
- C: 2.00
- C-: 1.70
- D+: 1.30
- D: 1.00
- F: 0.00

To determine the grade points earned per class, first multiply the points by the number of credit hours.

Example: if you earned a “C” in ENC 1101 (a 3 credit hour course), then you multiply 2 points times 3 credit hours to get 6 grade points.

To determine the total grade points earned per semester, determine the points for each class and add them together for the total grade points that semester.

Example: If you enrolled in 13 credit hours (three 3-hour courses and one 4-hour course), and earned a “B”, a “C”, and an “A” in
the 3 hour courses, and a “C-” in the 4-hour course this is how you would calculate your total grade points:

- $A = \text{4 points} \times 3 \text{ credit hours} = 12 \text{ grade points}$
- $B = \text{3 points} \times 3 \text{ credit hours} = 9 \text{ grade points}$
- $C = \text{2 points} \times 3 \text{ credit hours} = 6 \text{ grade points}$
- $\overline{C} = 1.70 \text{ points} \times 4 \text{ credit hours} = 6.8 \text{ grade points}$

Total: $13 \text{ credit hours} = 33.8 \text{ grade points}$

To determine your grade point average, divide the total grade points by the total credit hours under consideration. For the example above: $\text{Divide 33.8 grade points by the 13 credit hours to equal 2.60 GPA.}$

Special Notes

Grades of CR (Credit Awarded - Accelerated), G (Deferred - Thesis/Dissertation only), I (Incomplete), I* (Grade Not Reported), P (Pass), S (Satisfactory), TR (Withdrawal with full refund), AW (Administrative Withdrawal), W (Withdrawn), WR (Withdrawal and partial refund of fees), X (Audit), XX (No Grade) or * (Withdrawn (W or WF not yet reported) do not impact your GPA. Do not include the credit hours for these courses in your credit hour total for calculating GPA.

A grade of F, NF, U is equal to 0.00 points.

Pass or Fail (P/F) grades are not utilized for graduate courses.

* Unresolved Incomplete grades automatically will be changed to “F” by the Office of the Registrar.

**GPA Requirement**

**Master’s**

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

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

**Specialist**

Refer to the Specialist Degree Requirements (p. 41) in the Degree Requirements section of this *Catalog.*

**Doctor of Education Program**

Refer to the Doctor of Education Degree Requirements (p. 42) in the Degree Requirements section of this *Catalog.*

**Final Examinations**

Exams are scheduled during the Final Examination week of the fall and spring semesters and may be scheduled on a Saturday. Final exams for summer are scheduled by the instructor. It is the student’s responsibility to review the final exam schedule and know when/where the exam may occur (see the Academic Calendar) (http://catalog.uwf.edu/academiccalendar).

Review the Final Exam (https://confluence.uwf.edu/display/public/Final+Exam+Schedule) schedule for more information.

**Access to Grades**

Enrolled students may access their final grades via the Student Records menu in MyUWF (https://my.uwf.edu) after grades are due (see Academic Calendar (p. 5)).

**Graduation**

**Application for Graduation**

Applications for Graduation are submitted for the term in which the student is completing their degree requirements. All applications must be submitted during the application period. Specific dates are noted in the Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines). Students who miss the deadline should contact their academic department to determine eligibility and to request a late submission. Students submitting a late application risk not being included in the commencement program important graduation communication.

Retroactive graduation to a prior semester will not be approved.

**Master’s and Specialist Degrees**

Students fulfilling requirements for a UWF master’s or specialist degree must follow the instructions for Applying for Graduation (https://confluence.uwf.edu/display/public/Applying+for+Graduation) and also the Graduation Guide (http://uwf.edu/offices/registrar/graduation-guide).

**Doctoral Degrees**

Candidates for Doctoral Degrees should complete and submit the paper Doctoral Application (https://confluence.uwf.edu/display/public/Applying+for+Graduation#ApplyingforGraduation-DoctoralPrograms) for Graduation (paper form ONLY; not available online) to the Ed.D/Ed.S Program Office (https://uwf.edu/ceps/support-resources/edded-program-office) in the College of Education and Professional Studies. Applications are available in the Office of the Registrar and in the Ed.D./Ed.S. Program Office.

**Certificate Programs**

Students applying for a certificate should also follow the steps for Applying for Graduation (https://confluence.uwf.edu/display/public/Applying+for+Graduation). Awarded certificates will be listed on the student’s academic transcript.

**Commencement**

Commencement ceremonies at UWF are held twice a year, at the end of the fall and spring semesters, for students graduating with baccalaureate, master, specialist, and doctoral degrees only. Doctoral students must be approved by the Graduate School prior to participating in the commencement ceremony. UWF does not hold a commencement ceremony for summer graduation (p. 48).

Participation in commencement does not guarantee that all graduation requirements are complete and that your degree will be conferred.

An Application for Graduation (https://confluence.uwf.edu/pages/viewpage.action?pageId=12324861) must be completed/submitted by the date stated in the Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines) in order to participate in commencement. 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.

**Summer Graduation**

Master’s and Specialist students who plan to graduate in the summer should apply for summer graduation only. Prospective summer graduates have the option to participate in either the preceding spring or following fall ceremony.

Doctoral students intending to graduate in the summer may not participate in the spring ceremony unless the dissertation has been fully approved and participation is approved by the Graduate School.

Your name will appear in the Spring Commencement program as a prospective graduate and then in the Fall program as a graduate.

**Graduation Process**

**Degree Requirements**

All degree requirements must be complete by the last day of the semester for which the graduation application is submitted. Students whose Graduation Application is denied for any reason or do not meet the requirements for graduation must submit a new application for the semester in which the requirements are met.

**Good Standing Status**

A student must be in good standing to receive a UWF degree. Accordingly, any student who is subject to suspension or probation for scholastic or disciplinary reasons will not graduate until the conditions of suspension or probation have been satisfied.

**Timeline**

The Office of the Registrar will begin reviewing potential graduates approximately one week after grades are due. Awarding of degrees should be completed approximately one month following the review. Once your degree has been posted, your unofficial and official transcript will reflect this information. Be sure to review the step-by-step instructions for viewing your degree(s) (https://confluence.uwf.edu/pages/viewpage.action?pageId=15176103).

**Diplomas**

Diplomas will be mailed to the DIPLOMA MAILING ADDRESS indicated on your graduation application approximately six(6)-eight(8) weeks after graduation. Diploma mailing address changes must be made in writing to the Office of the Registrar or by e-mail to graduation@uwf.edu. All financial holds, including Exit Interviews, must be cleared before the diploma will be released.

Replacement diplomas are available for order by completing the Replacement diploma (http://uwf.edu/offices/registrar/resources/forms) form.

**Degree Conferral**

Degree conferral only occurs three times each year, after the conclusion of the Fall, Spring, and Summer terms. The conferral date is the date which will be posted on the official transcript and the diploma. This is the date when the degree is considered officially awarded. A degree is a credential. There are three documents that provide evidence of that credential: an official transcript, a diploma, and a formal letter of completion from the Office of the Registrar.

UWF degrees will not be posted on the student’s record until the official degree conferral date has been reached for the semester in which the degree is being awarded. Completion of all requirements prior to the official degree conferral date will not result in an early conferral of the degree. A student in this situation may request an official Petition for Early Certification of Degree Letter (http://uwf.edu/offices/registrar/resources/forms) from the Office of the Registrar showing pending conferral of the degree. The degree will be conferred for the term in which the requirements are completed.

**Degree Verification Process**

To confirm that a degree has been awarded, the most common options are through the use of the official transcript or, for students, receipt of the diploma. In addition, many employers access the Degree Verification process (http://www.studentclearinghouse.org) through the National Student Clearinghouse.

**Posthumous Graduate Degree**

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

*AC-23.01 (https://uwf.edu/offices/board-of-trustees/policies): Awarding of Posthumous Graduate Degree Policy

**Registration**

**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 assigned an academic advisor or a faculty advisor within their program department to assist in planning academic programs, provide guidance in personal, academic, and professional development, and foster interaction among students and faculty. All students are encouraged to seek academic advising on a regular basis.

Degree-seeking students are responsible for arranging appointments with their assigned academic advisors prior to registration. Degree-seeking students who are enrolling for their initial semester at UWF must meet with their advisor prior to registration to discuss degree plans and have the advising hold deleted. Appointments can be made through the academic departments, or for Emerald Coast students, through the staff of the Emerald Coast Instructional site. Degree-seeking students have priority for registration and enrollment.

**University Responsibilities**

The faculty, administration, and staff share a responsibility to provide accurate information and effective advice. The Division of Enrollment and Student Affairs (https://uwf.edu/offices/enrollment-and-student-affairs-division) is responsible for providing students, faculty, and other advising staff with accurate information in the Catalog and other publications.

The academic and faculty advisors in the College of Arts, Social Sciences and Humanities (CASSH); College of Business (COB); College of Education and Professional Studies (CEPS); Hal Marcus College of Science and Engineering (HMCSE); and Usha Kundu, MD College of Health (UKCOH) 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 major requirements for graduation. Students should use their degree audit, Catalog, and other resources for information.

Academic Advising Directory

College of Arts, Social Sciences, & Humanities (CASSH) Advising*
Pensacola Campus - Building 11, Room 205
(850) 474-3340
cassh@uwf.edu

College of Business (COB) Advising Center
Pensacola Campus - Building 76A, Room 224
(850) 474-3342
cobadvising@uwf.edu

College of Education & Professional Studies (CEPS) Advising Center
Pensacola Campus - Building 85, Room 103
(850) 474-2769
cepsdean@uwf.edu

Hal Marcus College of Science & Engineering (HMCSE) Advising*
Pensacola Campus - Building 4, Room 423
(850) 474-2688
hmcsce@uwf.edu

Usha Kundu, MD College of Health (UKCOH) Advising Center
(https://uwf.edu/coh/support-resources/ukcoh-advising-center)
(850) 474-2563
coh@uwf.edu

*These colleges do not have formal advising centers. Contact your department for more information.

Late Registration

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

*UWF REG 4.003 (http://uwf.edu/offices/board-of-trustees/regulations), s. 1009.24(d) & (e)
(http://www.leg.state.fl.us/statutes/index.cfm?
App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/
Sections/1009.24.html)

Registration Holds

Holds preventing registration will be placed on the student record for one or more of the following reasons: incomplete admissions requirements, financial obligations (parking tickets, library fines, etc.), financial responsibility (https://confluence.uwf.edu/display/public/Financial+Responsibility+Statement), administrative discipline, failure to comply with the immunization requirements, etc. These holds must be removed prior to registration. Students should contact the appropriate office and arrange for removal of any holds to register for classes and to receive official transcripts, grades, and diplomas. Students can view holds (https://confluence.uwf.edu/display/public/

Viewing+Holds) through their student portal, MyUWF (https://my.uwf.edu).

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

Drop/Add Changes

Class schedule changes (drop and add) may be completed once a student has initially registered until the end of the scheduled drop/add period. Students may choose to change their class schedules on MyUWF (https://my.uwf.edu). If the drop/add results in an increase in fees, the student must pay the additional fees as assessed by the fee payment due date. Any refunds of fees due to dropping a course prior to the end of the drop/add period will be issued by the Cashier’s Office. Appeals to the drop/add period should be addressed to the Office of the Registrar via a Request for Schedule Adjustment (https://confluence.uwf.edu/x/q4orB). (http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Appeal-for-Schedule-Adjustment_NEW-(1)-(2).pdf) See Academic Dates and Deadlines (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines) for drop/add periods.

Cancellation of Registration

Students are not permitted to drop their last remaining course using the online portal. Students may cancel registration (last remaining course will be dropped) by notifying the Office of the Registrar in writing prior to the last day of drop/add (Registrar@uwf.edu). Students who cancel their registration within this time frame are not liable for tuition or fees.

The University may cancel the registration of a student whose fees are not paid or who have 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).

Course Prerequisites and Corequisites

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

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

Cancellation of Registration and Reinstatement

Per UWF REG 4.0032 (http://uwf.edu/offices/board-of-trustees/regulations), the University will cancel the registration of any student who has not paid fees, or made appropriate arrangements for payment of fees, by the end of the second (2nd) week of classes for a regular semester or the proportionate period of time for courses whose duration is other than a semester.

A student may seek reinstatement; however, the student must pay all delinquent liabilities, including the late registration and late payment
fees before being reinstated. Reinstatement for canceled registration
is not automatic.

To be considered for reinstatement after the deletion of courses for
non-payment requires the approval of the Office of the Registrar. The
student must submit the Appeal for Reinstatement after Removal for
Non-payment (http://uwf.edu/offices/registrar/resources/forms) form
along with a statement 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.

Repeat Course Surcharge

Under s.1009.285 (http://www.leg.state.fl.us/statutes/index.cfm?
App_mode=Display_Statute&Search_String=&URL=1000-1099/1009/
Sections/1009.285.html), 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 undergraduate 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 (http://
catalog.uwf.edu/undergraduate/tuitionandfees) section).

If a student withdraws or fails a course due to extenuating
circumstances, an exception may be granted only once for each
course. Appeals should be addressed to the Office of the Registrar
via the Repeat Course Surcharge Appeal Form (http://uwf.edu/offices/
registrar/resources/forms).

*The repeat course surcharge applies to undergraduate courses,
regardless of a student's enrollment level.

Registration of Zero Credit Hours

Registration for zero hours provides for a student's examinations,
co-ops, internships, ensembles, graduations, use of facilities, etc.
when deemed appropriate by the University. The student is assessed
resident tuition and the associated fees (see BOG Regulation 7.0003
(http://www.flbog.edu/board/regulations/regulations.php)) for one credit
hour. The Zero Hour Fee shall be distributed in the same manner as
tuition. Students should see their academic advisors for advice on
courses to be taken for zero credit hours. Signed consent of approval
from the advisor or department is required in order to register for a
zero credit course.

*Faculty Senate 12/9/2016

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.

See the Enrollment (p. 44) section of this Catalog for more
information.

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.
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.

In the College of Business, all directed independent studies also
require the approval of the appropriate department chair.

See the Academic Credit Policies (p. 35) section of this Catalog for
more information.

Course Load/Maximum Hours Taken Per
Semester

Master's and Specialist

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

Doctoral

For full-time status, the University requires a doctoral student to
register for a minimum of six graduate semester hours. Students
enrolled in dissertation hours are considered full time. The maximum
number of hours for which a doctoral student may register in any given
semester without special permission is 12.

Some programs may have stricter course load maximum requirements.
Contact the program for more information.

Student Records

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 using the Contact and Privacy Info Wizard
(https://confluence.uwf.edu/x/xwEhAg) through MyUWF (https://
my.uwf.edu).

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.

Student Educational Records

The University of West Florida (UWF REG 3.017 (http://uwf.edu/
offices/board-of-trustees/regulations)) compiles with the Family
Educational Rights and Privacy Act (FERPA) and Florida Statute
(s.1002.225 (http://www.leg.state.fl.us/statutes/index.cfm?
App_mode=Display_Statute&Search_String=&URL=1000-1099/1002/
Sections/1002.225.html)) 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 is or has been in attendance at the University. A student is deemed to be "in attendance" at UWF when she or he registers for classes the first time. Thereafter, a student is deemed to be "in attendance" during all periods of enrollment, including between semesters, University holidays, and during periods of suspension. These designations of "in attendance" are for the limited purposes of the application of FERPA rights at the University of West Florida only.

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

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

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

1. Records maintained by individual University personnel which are solely in their possession and are not revealed to others.
2. Records maintained by University police which are for law enforcement purposes.
3. Records maintained by University employees which relate solely to the student as an employee and are not available for any other purpose.
4. Records maintained by University medical or psychological personnel which are solely for treatment and/or counseling purposes.
5. 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).


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:

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 (CIPRIS)

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.

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.

Directory Information

Directory information will be released for public records requests and for other requests, unless otherwise specified by the student. The online campus directory is available only internally through MyUWF (https://my.uwf.edu).

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 by using the Contact and Privacy Info Wizard (https://confluence.uwf.edu/x/xwEhAg) through MyUWF (https://my.uwf.edu).

- Name (legal and preferred)
- Address (local and permanent)
- Enrollment Status (e.g. undergraduate or graduate, full-time or part-time)
- University assigned E-mail Address
- Current Telephone number (local and permanent)
- Major field of study
- Participation in officially recognized activities and sports, including the birthdate, place of birth, weight and height of members of University athletic teams
- Dates of attendance at UWF
- Degree(s) earned at UWF
- University recognized Degrees, Certificates, Thesis/Dissertation Titles, Awards and Honors received (including Dean’s List and President’s List)
- Grade classification (Freshman, Sophomore, Junior, Senior or Graduate Student)
- Most recent previous educational agency or institution attended

Students may choose to restrict their directory information through the Contact and Privacy Information section in their MyUWF (https://my.uwf.edu) account.

*UWF REG 3.017 (http://uwf.edu/offices/board-of-trustees/regulations)

**Full Confidentiality Hold**

In rare cases, a student may need additional privacy protection that is not covered in suppressing their directory information (see Directory Information section above). If a student elects to have the Office of the Registrar place a Full Confidentiality Hold on their record, it means that the student's entire educational record will be suppressed and that they will not be able to discuss any part of their educational record with UWF staff remotely (telephone, email, FAX, or regular mail) but instead will have elected to have all conversations about their educational record in person.

See the Privacy section of Using the Contact and Privacy Info Wizard (https://confluence.uwf.edu/display/public/Using+the+Contact+and+Privacy+Info+Wizard#UsingtheContactandPrivacyInfoWizard-privacy) for details.

It is important to remember that by choosing this option or withholding Directory Information above, other areas related the student record may be affected. Some of these areas include but are not limited to, all future requests for Directory Information from non-institutional persons or organizations will be denied; degree or enrollment verifications for future employment through the National Student Clearinghouse will not be available; etc.

**Technology Requirements**

**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.

For more information, refer to Getting Started in MyUWF (https://uwf.edu/offices/help-desk/myuwf-and-argonet/myuwf).

**Student Technology and Email 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 email 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 (https://confluence.uwf.edu/display/public/UWF+Computing+Resources+Usage+Agreement and the Student Communications Policy* (also see the My Account (https://marina.uwf.edu/myaccount) app in MyUWF).

The University uses email 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 email 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 (https://my.uwf.edu) or eDesktop (https://marina.uwf.edu/edesktop).

For assistance with UWF information technology resources, reference the following:

- ArgoNet Account (http://uwf.edu/offices/help-desk/myuwf-and-argonet/argonet-accounts)
- Campus Computer Labs (http://uwf.edu/offices/help-desk/classrooms-and-labs/computer-labs)
- Computer Security (https://uwf.edu/offices/help-desk)
- eDesktop Virtual Computer Lab (https://confluence.uwf.edu/display/public/eDesktop+Virtual+Computer+Lab)
- eLearning (http://uwf.edu/offices/help-desk/online-learning/elearning-students)
- ITS Help Desk (http://uwf.edu/offices/help-desk)
- MyUWF (http://uwf.edu/offices/help-desk/myuwf/once-youve-enrolled)
- UWF Email (http://uwf.edu/offices/help-desk/students-new-to-uwf/once-youve-enrolled)

*SA-19.03-05/18 (https://uwf.edu/offices/board-of-trustees/policies)

The University of West Florida supports an inclusive environment for all students, faculty, staff and visitors. If there are aspects of your experience with the University that hinder your full participation, the University is committed to providing reasonable accommodations. For more information on services and accommodations available, contact Student Accessibility Resources (https://uwf.edu/offices/student-accessibility-resources/electronic-information-technology/
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 three years of the date of admission, but no more than seven years at the point of graduation, 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.

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. This form can be obtained through Ed.D./Ed.S. Program Office (https://uwf.edu/ceps/support-resources/eddeds-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.

Tuition Waivers

Senior Citizen Tuition Fee Waiver

Senior citizens who are sixty (60) years of age or older and meet Florida residency requirements for tuition are eligible for a Tuition Fee Waiver.

Waiver of fees is not authorized for the following kinds of courses:

- Theses
- Dissertations
- Internships
- Directed independent studies
- Practicums
- Music & theatre performance courses
- Continuing education courses
- Other one-on-one course situations

It is critical to confirm the dates Senior Citizens can register using the Senior Citizen waiver benefit. Please read all information.
regarding Senior Citizen Tuition Fee Waiver (https://uwf.edu/offices/registrar/tuition-fees/senior-citizen-tuition-waiver) policies, procedures, and FAQs before proceeding.

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. Employees of the state include employees of the executive, legislative, and judicial branches of state government. Persons employed by state universities, community colleges, or school districts are not eligible for a State Employee Tuition Fee Waiver.

Waivers may not be used for the following types of courses:

- Thesis
- Dissertation
- Internship
- Directed Independent Study
- Practicum
- Music and Theatre Performance
- Continuing Education
- Other one-on-one course situations

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

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

Assessment of these fees varies based on individual circumstances and courses selected.

It is critical to confirm the dates state employees can register using the state waiver benefit. Please read all information regarding State Employee Tuition Waiver (https://uwf.edu/offices/registrar/tuition-fees/state-employee-tuition-waiver) policies, procedures, and FAQs before proceeding.


Withdrawals

Individual Class Withdrawal

After the drop/add period, a student may withdraw from an individual course(s) while remaining in other course(s) up to the 13th week* of instruction of any fall or spring semester. A grade of “W” will be assigned during this period. Refunds are not issued for individual course withdrawals. Students may process withdrawals online through the Registration app in MyUWF (https://my.uwf.edu).

Students are encouraged to consult with their advisor prior to withdrawing from classes and to contact the Office of Financial Aid (https://uwf.edu/offices/financial-aid) and Student Accounts and Cashier (https://uwf.edu/offices/controllers-office/student-accounts-and-cashier) for questions regarding fee liability or financial aid awards. Students who withdraw are not enrolled in the class as of the date the withdrawal is processed. Enrollment status (i.e. full-time, part-time) will be adjusted based on the date of withdrawal. Withdrawals count as an attempted course for repeat course surcharges and excess hours. Individual class withdrawals may not be processed after the published deadline(s) in the Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines). Students who do not officially withdraw will be assigned a standard letter grade reflective of the performance in the course. See Late Withdrawal Policy (p. 55).

*Review the Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines) for specific dates related to the summer semester and parts of term (https://confluence.uwf.edu/x/OI8UB).

Withdraw from All Courses (University Withdrawal)

Students should contact the Office of the Registrar to withdraw from their final course (considered a University Withdrawal). Students withdrawing from all courses prior to the end of the 13th week* of a full semester will receive a grade of “W”.

Withdrawals from all courses during the first four weeks receive a partial refund. Withdrawals after the 13th week of a full semester are considered only by appeal (p. 40).

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 (https://uwf.edu/offices/financial-aid) and Student Accounts and Cashier (https://uwf.edu/offices/controllers-office/student-accounts-and-cashier) for questions regarding fee liability or financial aid awards. Students who withdraw from all classes are considered not enrolled as of the date the withdrawal is processed. Enrollment status will be adjusted based on the date of withdrawal.

*Review the Academic Calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines) for specific dates related to the summer semester and parts of term (https://confluence.uwf.edu/x/OI8UB).

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Withdrawals for Active Duty Military Service

In the case of a student called to active duty military service or change of orders due to military conflict within the semester, the student must contact the Office of the Registrar, provide a copy of military orders, and follow the withdrawal process (http://uwf.edu/offices/registrar/registration/withdrawals-) and withdrawal deadlines, as noted on the academic calendar (http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines). Grades of “W” will be awarded, if approved. Regarding tuition, students may also elect to follow the Fee Appeals (https://uwf.edu/offices/controllers-office/student-accounts-and-cashier/fee-appeal/fee-appeal-information) process.

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

**Medical Withdrawal**

To qualify for a medical withdrawal (http://uwf.edu/offices/registrar/registration/withdrawals-), the student is required to complete and submit the Medical Withdrawal Form (http://uwf.edu/offices/dean-of-students/case-management-services/medical-withdrawal) with supporting documentation to the Dean of Students Office (DSO). 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 email notification once the decision has been made. The medical withdrawal process normally takes 10 to 14 business days.

Questions regarding the medical withdrawal process may be directed to the Dean of Students Office (https://uwf.edu/offices/dean-of-students/case-management-services/medical-withdrawal) or the Office of the Registrar (https://uwf.edu/offices/registrar/registration/withdrawals-).

**Note:** The medical withdrawal process only reviews health conditions of a student, and not the conditions of a student's immediate family members.

**Withdrawal Appeal Policy**

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

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

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

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

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

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

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

**Fee Appeal Information**

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

See the Tuition and Fees (p. 25) section of this Catalog for more information on Fee Appeals.

**Administrative Withdrawal**

The University administration has the ability to withdraw a student from a single course, multiple courses, or the University, and to revoke that student’s registration at any time during a semester or term for failure to comply with academic requirements including, but not limited to:

- students whose attendance is not confirmed through the attendance confirmation process
- students demonstrating unsatisfactory academic and course engagement through Early Warning* defined by one or more of the following as:
  - having missed an excessive amount of scheduled class time as defined by individual faculty member’s syllabus,
  - being mathematically unable to pass the course due to missed material which might be the result of assignments not turned in or assignments not completed with sufficient academic achievement as a result of poor attendance patterns —i.e. missing too much material and/or too many in-class opportunities to earn points,
  - failing to maintain routine log-in and academic engagement activity during each week for online courses, or
- violation of university policies or emergency situations including but not limited to:
  - a situation/condition which causes the student to be unable to meet institutional requirements for admission and continued enrollment,
  - poses a significant danger or threat of physical harm to the student or to the person or property of others. Students who are administratively withdrawn from a single course or all courses in a semester/term

Students who are administratively withdrawn from a single course, multiple courses, or the University:

- are not eligible for a tuition refund for the course and
- receive a “W” grade if the withdrawal occurs prior to the final deadline for withdrawal in a term/semester. The “W” grade does not affect a student’s grade point average.
Administrative withdrawals may have implications on a student’s Financial Aid award and satisfactory academic progress. Students will be given a notification (email) of pending administrative withdrawal at least one week before actual withdrawal. Faculty are responsible for providing feedback during the three required checkpoints during Early Warning, and will not be involved in the process or held responsible for dropping students that may potentially fail a course.

When students are administratively withdrawn from a course, a final grade of "W" will be entered into their academic record.

*Early Warning does not apply to Graduate students.

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Online Campus

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

Online Campus Programs

The UWF Online Campus offers over 600 online course sections each semester that lead to over 50 different undergraduate (http://uwf.edu/online/what-we-offer/undergraduate-degrees) and graduate (http://uwf.edu/online/what-we-offer/graduate-degrees) degrees as well as credit-earning certificate (http://uwf.edu/online/what-we-offer/certificates) programs. Students enrolling in Online Campus programs will experience interactive, personalized strategies for online course delivery as well as access to the Online Campus staff ready to provide additional assistance as needed.

Out-of-State Tuition Waivers

Admittance to any of the Online Campus 50+ degree or certificate programs provides the opportunity to apply for an out-of-state tuition waiver (http://uwf.edu/online/we-are-affordable/ tuition-waiver-info) that substantially reduces tuition for non-Florida residents. Online Campus tuition and fees (http://uwf.edu/online/we-are-affordable/ tuition-fees) include a $15 per credit hour charge for every online course.

Online Campus Student Support

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

The University of West Florida faculty and students at the graduate and undergraduate levels actively engage in public service and research. The Office of Research and Sponsored Programs supports this engagement by facilitating the growth, development, and quality of basic and applied sponsored research. The office also includes a Technology Transfer program which assists with the commercialization of emerging research. Although faculty conduct unfunded research in a wide variety of areas appropriate to their discipline, the majority of funded research is conducted by the University’s research centers and institutes. A list of centers and institutes is located on the Office of Research and Sponsored Programs website 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 Office of Student Involvement (OSI) coordinates all Campus Activity Board events, Homecoming activities, Argo Arrival (welcome week) events, student organization events including fraternity and sorority recruitment, and emerging leadership and community service programs. The department maintains a complete schedule of activities.

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

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

Intercollegiate Athletics

The intercollegiate athletic program comprises competitive teams in fifteen sports: men's teams in baseball, basketball, cross country, football, 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, the Gulf South Conference (GSC), and the New South Intercollegiate Swim Conference (NSISC). Championship playoff opportunities are provided in each sport. Each team plays a full schedule of competition with schools throughout the southeastern United States. The Argonauts have won 93 total conference championships (91 GSC and two NSISC) and 26 GSC All-Sports Trophies. The Argonauts have won nine national team championships and 22 individual national championships.

The University sports facilities include a field house (1,000 capacity), twelve lighted tennis courts, a lighted baseball stadium (2,500 capacity), a lighted softball stadium (800 capacity), and a varsity soccer field (500 capacity). The Aquatic Center has an Olympic-size, heated swimming pool, with two 1M and one 3M spring boards.

Title IX of the Education Amendments of 1972

Title IX of the Education Amendments of 1972 prohibits discrimination based on sex and/or gender in federally funded programs or activities. The University of West Florida does not discriminate on the basis of sex and/or gender in its educational programs or activities. The University’s policies related to Title IX are the Sexual Misconduct and Gender-Based Discrimination Policy (P-13.06-06/16 (http://uwf.edu/offices/board-of-trustees/policies)) and the University Policy Prohibiting Discrimination, Harassment and Retaliation (P-13.06-06/16 (http://uwf.edu/offices/board-of-trustees/policies)).

In addition, most University employees (both faculty and staff) are considered Responsible University Employees under the Sexual Misconduct and Gender-Based Discrimination Policy. Responsible University Employees are defined as any employee with the authority to address student-on-student sexual misconduct, or any employee who a student may reasonably perceive to have the authority to address student-on-student sexual misconduct.

Responsible University Employees are required to immediately notify the University’s Title IX Coordinator in the event that a student or employee discloses any alleged sexual violence, sexual misconduct, or gender-based discrimination to him or her.

For inquiries concerning the application of Title IX and the federal regulations associated with the law, or to inquire regarding your status or responsibilities as a Responsible University Employee, please contact the Title IX Coordinator (contact information below).

Students or employees who believe that they are being discriminated against or harassed on the basis of sex and/or gender can seek advice, assistance, report incidents, and/or file complaints with any of the following individuals:

Karen Rentz, PhR
Executive Director Equity and Diversity
Title IX Coordinator
Building 19
(850) 474-2175, krentz@uwf.edu

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

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

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

https://www2.ed.gov/about/offices/list/ocr/index.html or 1-800-421-3481
Student Services and Resources

Accessibility Resources for Students
Refer to information on the Student Accessibility Resources (https://uwf.edu/offices/student-accessibility-resources).

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

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

Career Services
Internships and Cooperative Education (https://uwf.edu/offices/community-employer-engagement/employers/recruiting-at-uwf); Refer to information on Career Education (https://uwf.edu/offices/career-education).

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

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

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

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

Equity & Diversity
- Academic Center for Excellence
- TRiO/Student Support Services Program
Refer to information on Equity & Diversity (https://uwf.edu/offices/equity-diversity).

Center for Academic Success
Refer to information on the C (http://uwf.edu/ucollege/departments/advising-retention/ace/what-we-do)enter for Academic Success (https://uwf.edu/offices/center-for-academic-success).

TRiO Student Support Services
Refer to information on TRiO Student Support Services (https://uwf.edu/offices/retention-initiatives/trio-student-support-services).

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

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

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

Information Technology Services

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

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

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

· The Mathematics and Statistics Tutoring Laboratory

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

University Testing Services
Refer to information on the University Testing Services (https://uwf.edu/offices/testing-services).

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

For information on UNDERGRADUATE DEGREES see the Undergraduate Catalog (http://catalog.uwf.edu/undergraduate/degreeprograms).

Master’s Degrees

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.A.</td>
<td>Master of Arts</td>
</tr>
<tr>
<td>M.Acc.</td>
<td>Master of Accountancy</td>
</tr>
<tr>
<td>M.B.A.</td>
<td>Master of Business Administration</td>
</tr>
<tr>
<td>M.Ed.</td>
<td>Master of Education</td>
</tr>
<tr>
<td>M.H.A.</td>
<td>Master of Healthcare Administration</td>
</tr>
<tr>
<td>M.P.H.</td>
<td>Master of Public Health</td>
</tr>
<tr>
<td>M.S.</td>
<td>Master of Science</td>
</tr>
<tr>
<td>M.S.A.</td>
<td>Master of Science in Administration</td>
</tr>
<tr>
<td>M.S.N.</td>
<td>Master of Science in Nursing</td>
</tr>
<tr>
<td>M.S.W.</td>
<td>Master of Social Work</td>
</tr>
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</table>

Specialist Degree

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

Doctoral Degree

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

Master’s Degrees

- Accountancy, M.Acc. (p. 70)
  - Professional Accountancy
  - Professional Taxation
- Administration, M.S.A (p. 72)
  - Public Administration
- Anthropology, M.A. (p. 74)
  - Anthropology
  - Historical Archaeology
- Biology, M.S. (p. 76)
  - Biology (thesis)
  - Biology (non-thesis)
- Business Administration, M.B.A. (p. 78)
  - MBA General
  - Accounting
  - Business Analytics
  - Entrepreneurship
  - Hospitality and Tourism Leadership
  - Human Resources Management
  - Information Security Management
  - Supply Chain Logistics Management
- College Student Affairs Administration, M.Ed. (p. 83)
- Computer Science, M.S. (p. 84)
- English, M.A. (p. 91)
  - Creative Writing
  - Literature
- Environmental Science, M.S. (p. 93) *
- Exceptional Student Education, M.A. (p. 94)
  - Exceptional Student Education Comprehensive - Applied Behavior Analysis
  - Exceptional Student Education Comprehensive - Special & Alternative Education
- Family Nurse Practitioner, M.S.N. (p. 96)
- Geographic Information Science Administration, M.S. (p. 97)
- Health, Leisure & Exercise Science, M.S. (p. 100)
  - Exercise Science
  - Physical Education and Human Performance
- Health Promotion and Worksite Wellness, M.S. (p. 102)
- Healthcare Administration, M.H.A. (p. 103)
- History, M.A. (p. 104)
  - Early American Studies
  - History
  - Public History
- Information Technology, M.S. (p. 107)
  - Cybersecurity
  - Database Management
  - Network Operations, Performance and Security
- Instructional Design and Technology, M.Ed. (p. 109) *
  - Instructional Design and Technology
  - Technology Leadership
- Mathematics, M.S. (p. 111)
- Nursing, M.S.N. (p. 113)
  - Nurse Executive
  - Nursing Education
- Political Science, M.A. (p. 114) *
- Psychology, M.A. (p. 115)
  - Applied Experimental Psychology
  - Counseling Psychology - Licensed Mental Health Counselor (LMHC)
- Public Health, M.P.H. (p. 119)
  - Generalist M.P.H.
  - Global Health (GHLH)
- Reading Education, M.Ed. (p. 123)
- Social Work, M.S.W. (p. 124)
• Traditional M.S.W.
• Advanced Standing M.S.W.
• Strategic Communication and Leadership, M.A. (p. 126)

*Accelerated Bachelor to Master’s program option available. See Undergraduate Catalog [http://catalog.uwf.edu/undergraduate/degreeprograms/#bachelorsdegree] for details.

**Education Specialist Degree**

• Curriculum & Instruction, Ed.S. (p. 65)

**Doctoral Degrees**

• Curriculum & Instruction, Ed.D. (p. 67)
  • Administrative and Leadership Studies
  • Curriculum and Assessment
  • Diversity Studies
  • Higher Education
  • Instructional Design and Technology
  • Health and Physical Activity

**Degrees Available at the Emerald Coast Instructional Site**

Also refer to programs offered through the UWF Online Campus (p. 63)

**Master’s Degrees**

• Business Administration, M.B.A. (p. 78)
• Social Work, M.S.W. (p. 124)

**Degrees Available at the UWF Online Campus**

**Master’s Degrees**

• Business Administration, M.B.A. (p. 78)
  • MBA General
  • Accounting
  • Business Analytics
  • Entrepreneurship
  • Human Resources Management
  • Information Security Management
  • Supply Chain Logistics Management
• Computer Science, M.S. (p. 84)
  • Database Systems
  • Software Engineering
• Curriculum & Instruction, M.Ed. (p. 87)
  • Elementary Education Comprehensive
  • Middle Level Education Comprehensive
  • Secondary Education Comprehensive
• Educational Leadership, M.Ed. (p. 90)
  • Educational Leadership Certification
• English, M.A. (p. 91)
  • Creative Writing
  • Literature
• Exceptional Student Education, M.A. (p. 94)
  • Applied Behavioral Analysis Education
  • Special and Alternative Education
• Geographic Information Science, M.S. (p. 97)

• Healthcare Administration, M.H.A. (p. 103)
• Information Technology, M.S. (p. 107)
  • Cybersecurity
  • Database Management
• Instructional Design and Technology, M.Ed. (p. 109)
  • Instructional Design and Technology
  • Technology Leadership
• Mathematics, M.S. (p. 111)
• Nursing, M.S.N. (p. 113)
  • Nurse Education
  • Nursing Executive
• Political Science, M.A. (p. 114)
• Public Health, M.P.H. (p. 119)
• Reading Education, M.Ed. (p. 123)

**Educational Specialist Degree**

• Curriculum & Instruction, Ed.S. (p. 65)

**Doctoral Degrees**

• Curriculum & Instruction, Ed.D. (p. 67)
  • Curriculum and Assessment
  • Instructional Design and Technology
Graduate Certificate Programs

The University offers a variety of certificate programs to pursue as a stand alone certificate, to complete in conjunction with a graduate degree, or to take for professional development. Requirements are determined by the academic department offering the certificate. Upon approval and notification to the Office of the Registrar from the academic department, awarding of a certificate is listed on the transcript. Actual certificates of recognition may or may not be issued by the academic department. Contact the academic department offering the certificate program for more information, including application procedures.

For information regarding VA certification of certificate programs, please contact the Military and Veteran's Resource Center (MVRC) (http://uwf.edu/mvrc).

Graduate Certificates offered at UWF

The following certificate programs are credit-bearing and currently offered at the graduate level:

- Acquisition and Contract Administration (p. 72)
- Business Analytics (p. 80)
- Data Science (p. 85)
- Database Systems (p. 85)
- Graduate Business Foundations (p. 81)
- Graduate Geographic Information Science (GIS) (p. 97)
- Graduate Geographic Information Science (GIS) - Archaeology (p. 98)
- Graduate Entrepreneurship (p. 81)
- Health Communications Leadership (p. 126)
- Health Informatics (http://catalog.uwf.edu/graduate/healthinformatics)
- Health Psychology (p. 117)
- Historic Preservation (p. 106)
- Hospitality and Tourism Leadership (p. 81)
- Human Resources Management (p. 81)
- Human Performance Technology (p. 110)
- Information Security Management (p. 81)
- Leadership in Public Service and Nonprofit Administration (p. 72)
- Professional Accountancy (p. 70)
- Public Health/Emergency Management (HEM) (p. 122)
- Public Health - Infection Control (CIC) (p. 122)
- Supply Chain Logistics Management (p. 82)

Graduate Certificates Available at the UWF Online Campus

The following certificate programs are credit-bearing and currently offered at the graduate level via the UWF online Campus:

- Business Analytics (p. 79)
- Data Science (p. 85)
- Database Systems (p. 85)
- Entrepreneurship (p. 80)
- Graduate Geographic Information Science (GIS) (p. 97)
- Graduate Geographic Information Science (GIS) - Archaeology (p. 98)
Curriculum and Instruction

The Ed.S. program at UWF is a 36 credit post-master’s degree inclusive of an applied research capstone project or a competency-based portfolio. The program is designed primarily for professionals who hold positions of leadership in education and training, social sciences, or the military. The purpose of the program is to develop curriculum-related content experts through advanced knowledge, contextualization, and requisite skills of individuals who work in a variety of leadership settings. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making and problem solving. Student backgrounds include, but are not limited to, public school personnel, community college and university personnel, social and health related personnel, and military personnel.

Ed.D. students who have successfully completed 36 credit hours including a capstone research project or a competency-based portfolio and would like to earn an Ed.S. degree should contact the CEPS Ed.S./Ed.D. Academic Advisor to determine eligibility. A student entering the Ed.S program has the opportunity to apply to the Ed.D. after completion of the program. Five of the core courses, EDF 7404 Quantitative Methods and Educational Statistics I, EDF 7475 Qualitative Research I - Methods, EDF 7191 Psychological Foundations for Education: Cognition, Curriculum, and Instruction, EDG 7346 Advanced Analysis of Curriculum and Instruction, and EDF 7685 Philosophical Foundations of Education, will transfer to the Ed.D. program upon successful application and acceptance. If the student takes the exact sequence of courses offered in the area of focus, then all five courses taken will transfer into the Ed.D. program within the same area of focus. On the other hand, if a student wishes to enroll in a different Ed.D. area of focus from what was taken in the Ed.S., it will be handled on a case by case basis.

Admission Requirements

Admission to the Ed.S. program is a selective process, therefore, meeting the minimum eligibility criteria stated below does not guarantee admission into the program. Applicants for the specialist program must meet all university and departmental admission requirements. Preference for admission will be given to those students whose credentials indicate the greatest promise of academic success in their chosen course of study. Admission is made at the department level and thus there are university and departmental requirements for admission to this program.

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

• Submission of one of the following graduate admission tests*:
  • Graduate Record Examination (GRE)
  • Miller Analogies Test (MAT)
  • Graduate Management Admissions Test (GMAT)
  • Master’s transcripts and GPA
  • Current Resume
  • Submission of letter of intent that includes answers to the following prompts:
    • What personal and professional goals do you hope to meet through earning a doctorate, and why do you think the UWF Educational Specialist degree in Curriculum and Instruction is a good fit for your goals?
    • What special knowledge, skills, and experiences would you bring to the chosen academic area of focus and how are these aligned with the mission of the Educational Specialist degree program in Curriculum and Instruction as a whole? If you have had experiences that may have affected your academic performance, please provide explanatory context.
    • Be careful to select an area of focus, articulate how your skill set and experiences align with its goals, and show how these will impact your career trajectory.

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

• Overall fit with the program

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

Students are strongly encouraged to remain in close contact with department faculty mentors, the CEPS Advising Center, and the Ed.D./Ed.S. Program Office for all questions regarding the program, including deadlines and the application process. This program requires a significant amount of writing, all of which must follow the APA guidelines. Students should complete the online APA tutorial before the end of the first semester of enrollment to assist them in mastering APA style. EDF 7404 Quantitative Methods and Educational Statistics I presumes an understanding of basic statistics. Thus, students should complete the online statistics tutorial before enrolling in this class, which is normally taken in the second year of the program.

Degree Requirements

To be eligible for the Ed.S., a student must complete all requirements listed in the Graduation and General Degree Requirements (p. ) 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 coursework.

Students will complete the 18 semester hours professional core and complete 15 semester hours of area of focus courses. The areas of focus are as follows: Administration and Leadership Studies, housed in the Department of Research and Advanced Studies; Instructional Design and Technology, housed in the Department of Instructional Workforce and Applied Technology; and Curriculum & Assessment Studies, housed in the Department of Teacher Education and Education Leadership. Fulfillment also includes the successful completion of a Capstone project, EDF 7912 Educational Specialist Degree Capstone Course, tailored to the student’s professional goals and area of specialization.

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

Program Requirements (36 sh)

Professional Core (18 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7404</td>
<td>Quantitative Methods and Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>EDF 6481</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7191</td>
<td>Psychological Foundations for Education: Cognition, Curriculum, and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7685</td>
<td>Philosophical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7346</td>
<td>Advanced Analysis of Curriculum and Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area of Focus Electives (15 sh)**

Students will select five courses with advisor approval from one of the following areas of focus:

- Administration and Leadership Studies
- Instructional Design and Technology
- Curriculum & Assessment

**Capstone (3 sh)**

Students will complete a three hour capstone experience by taking the capstone course listed below.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7912</td>
<td>Educational Specialist Degree Capstone Course</td>
<td>3</td>
</tr>
</tbody>
</table>
Doctoral Degrees

The University of West Florida offers a Doctor of Education (Ed.D.) degree in Curriculum and Instruction. The doctoral degree in Curriculum and Instruction prepares students for leadership roles by providing learning and enrichment in the areas of diversity, quantitative and qualitative research, educational theory and philosophy, educational technology, and multicultural education. The extensive coursework offered through the Ed.D. in Curriculum and Instruction at UWF may assist educators in designing innovative methods for providing instruction to struggling students, designing and modifying curricula, researching and assessing school programs, and leading change in educational organizations. In addition to the core coursework, students have the opportunity to determine an area of specialized study. The specialization areas encompass Administration and Leadership, Curriculum and Assessment, Diversity Studies, Higher Education, Instructional Design and Technology, Health and Physical Activity, and Virtual Social Science Research.

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.

Student performance and eligibility in the doctoral program will be continually assessed by faculty and require a B or better in all coursework. Students who earn below a grade of B in more than two courses may not be permitted to enroll in additional coursework. Students who earn two unsatisfactory grades during the dissertation phase may not be permitted to enroll in additional hours of dissertation and may be removed from the program. Students must successfully complete 48 semester hours of coursework and 18 hours of Dissertation credits. The dissertation hours are broken down as follows: there are four structured Doctoral Seminars including Doctoral Seminar I focusing on an extensive background paper during the 33-36 credit hours; Doctoral Seminar II, which covers the comprehensive examination and defense; Doctoral Seminar III, which is the pre-proposal and defense; Doctoral Seminar IV, which covers the dissertation proposal and defense. After these structured and guided processes for the dissertation, students will have six more credits to complete the coursework, making it possible to submit their dissertation. Students must successfully defend their dissertation and submit an approved dissertation to be eligible for graduation. The submission processes and policy are spelled out in the Argo Docs 12 Step Dissertation Submission Process.

Policy on Full-Time Registration

Doctoral students are required to complete 66 semester hours (sh) of coursework, including 30 sh in the professional core and 18 sh in their selected specialization. The remaining 18 sh are reserved for the dissertation requirement as broken down above.

A full-time load of coursework is 6 sh per semester, which is generally 2 courses. Because of the rigor of doctoral courses full time enrollment within the UWF Ed. D. Program is defined to be 6 hours per semester. Students will be unable to enroll in more than 6 hours per semester. If for any extenuating circumstances a student wishes to take more than the full time load of 6 credits, permission must be obtained through an official application. The application should address the following:

- GPA must be higher than 3.75
- The application by the student should state and explain the extenuating circumstances dictating the need to take extra credits.
- The student must submit an updated graduation plan, recommended by the academic advisor and the specialization coordinator indicating how the additional course will be accommodated in the rotation of courses and its impact on the student’s pathway to graduation.
- The application should be routed through, signed and dated by the following for approval: Specialization Coordinator, Department Chair, Director of Doctoral Studies, and CEPS Dean.

Admission Requirements

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

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

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

- Overall fit with the program

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

Some specializations admit applicants once per year; contact the specialization's program coordinator for specific admission deadlines or visit the Curriculum & Instruction, Ed.D. (https://uwf.edu/ceps/support-resources/eddedds-program-office) webpage for more information.
This program requires a significant amount of writing, all of which must follow the APA guidelines. Students should complete the online APA tutorial before the end of the first semester of enrollment to assist them in mastering APA style. EDF 7404 Quantitative Methods and Educational Statistics I presumes an understanding of basic statistics. Thus, students should complete the online statistics tutorial before enrolling in this class, which is normally taken in the second year of the program.

**Degree Requirements**

To be eligible for an Ed.D. degree in Curriculum and Instruction, a student must complete a minimum of 66 semester hours including all requirements listed in the Graduation and General Degree Requirements section of this catalog along with the Professional Core, Specialization, and Dissertation Requirements listed below:

**Professional Core Requirements (30 sh)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7404</td>
<td>Quantitative Methods and Educational Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7191</td>
<td>Psychological Foundations for Education: Cognition, Curriculum, and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7407</td>
<td>Quantitative Methods and Educational Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7685</td>
<td>Philosophical Foundations of Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7790</td>
<td>Foundations of Doctoral Research and Writing</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8609</td>
<td>Perspectives of Contemporary Social Theories</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8289</td>
<td>Curriculum Design</td>
<td>3</td>
</tr>
<tr>
<td>Choose one Advanced Quantitative or Qualitative Methods course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 30

**Specialization Area (18 sh)**

**Dissertation Requirement (18 sh)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 8931</td>
<td>Doctoral Seminar I: Background Paper</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8932</td>
<td>Doctoral Seminar II: Comprehensive Exam</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8935</td>
<td>Doctoral Seminar III: Pre-proposal</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8933</td>
<td>Doctoral Seminar IV: Proposal</td>
<td>3</td>
</tr>
<tr>
<td>Choose one: EDF 8980</td>
<td>Dissertation</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Hours** 18

### Administration and Leadership Studies Specialization

The Administration and Leadership Studies Specialization focuses on educational systems, change theory, leadership theory, and professional ethics.

Students will select 18 semester hours of required coursework in this specialization.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 8103</td>
<td>Theories of Administration and Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7730</td>
<td>Administration and Leadership Communication Techniques</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8937</td>
<td>Research Applications</td>
<td>3</td>
</tr>
<tr>
<td>PAD 7409</td>
<td>Strategic Management in Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 7003</td>
<td>Administrative Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PAD 7004</td>
<td>Public Budgeting and Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 18

### Curriculum and Assessment Specialization

The curriculum and assessment specialization is designed for individuals in public and private sectors who want to specialize in the theory, development, and implementation of curriculum and assessment. This specialization is grounded in theories and models of curriculum and assessment. The core courses and the specialization courses will be taken in conjunction with four dissertation seminars. These specialization courses along with the concurrent dissertation seminars provide the student with the competencies necessary to produce a scholarly written research proposal. This research proposal is then implemented and completed during the final 10 semester hours of the program.

The following courses are required in this specialization:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7573</td>
<td>Contemporary Curriculum Issues and Theories</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7008</td>
<td>Assessment Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDG 7256</td>
<td>Assessing Curricula and Educational Programs</td>
<td>3</td>
</tr>
<tr>
<td>EDG 8938</td>
<td>Seminar: Advanced Methods in Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 8668</td>
<td>Curriculum and Instructional Strategies for Adult Learners</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 18

### Diversity Studies Specialization

The specialization in Diversity Studies is designed to promote an understanding of contemporary discord related to historical events, philosophical perspective, civil rights, race relations, gender equity, socioeconomic status, and censorship of groups, institutions, and ideas. Graduates in this specialization will be able to develop possible solutions for social justice concerns and inequities while making connections based upon historical perspective, ideological considerations, and research. Majors in Diversity Studies would bring expertise to the following fields: community health, social work, the
military, social services, education, law, research, and non-profit groups. This is a face-to-face program of study that meets on the Pensacola campus and requires some field experience.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 8698</td>
<td>Censorship</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8936</td>
<td>Advanced Qualitative Research and Strategies: Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8088</td>
<td>Diversity &amp; Civil Rights in Education</td>
<td>3</td>
</tr>
<tr>
<td>Advisor approved electives related to the specialization</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**: 18

### Higher Education Specialization

The specialization in higher education will prepare students for leadership in colleges and universities. Graduates of the program in higher education will master a body of knowledge related to the field of higher education. The program will provide a broad overview of the institutions, policies, practices, personnel, programs, and services of institutions of higher education. Students who earn the degree in higher education will contribute to higher education practice and research regionally, nationally, and globally. Students will acquire a professional knowledge and understanding of colleges and universities as social and cultural institutions.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDH 6405</td>
<td>Legal Issues in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6505</td>
<td>Budgeting &amp; Financial Management in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7205</td>
<td>Curriculum Development in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7632</td>
<td>Leadership in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 7635</td>
<td>Organization and Administration of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8937</td>
<td>Research Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 18

### Instructional Design and Technology Specialization

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 7676</td>
<td>Advanced Instructional Design Theory</td>
<td>3</td>
</tr>
<tr>
<td>EME 7938</td>
<td>IT Research Design Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 9

#### Performance Technology Option

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

**Total Hours**: 9

### Distance Learning Option

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

**Total Hours**: 9

### Health and Physical Activity Specialization

This specialization is intended for experienced professionals in the fields of health, fitness, K-12 teacher education, and sport who are seeking advanced training in leadership and administrative positions in:

- health and fitness higher education preparation
- K-12 education and administration
- health agencies and non-profit organizations
- health care services
- community-based health promotion
- worksite wellness programs

The HPA specialization places emphasis on preparing graduates to: 1) lead health programs and organizations; 2) teach undergraduate/graduate courses in colleges or universities; 3) plan, design, manage, and assess health promotion initiatives; 4) conduct quality research in health, physical activity, and education professions; 5) collaborate with health, physical activity, and education professionals on translational research and service projects; 6) write and publish research in high profile journals; and 7) exhibit skilled work ethic and expert behaviors as a professional in health, physical activity, and education fields. Students may focus coursework toward personal areas of interest/experience that relate to health and physical activity fields.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 7001</td>
<td>Promoting Physical Activity for Youth and Adults</td>
<td>3</td>
</tr>
<tr>
<td>HLP 8515</td>
<td>Development and Administration of Health and Physical Activity Programs</td>
<td>3</td>
</tr>
<tr>
<td>HLP 8002</td>
<td>Leadership in Health and Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>HLP 8003</td>
<td>Health and Physical Activity Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>HLP 7306</td>
<td>Planning and Designing Health and Physical Activity Programs</td>
<td>3</td>
</tr>
<tr>
<td>HSC 7609</td>
<td>Advanced Theories of Health Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 18
Accounting

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

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

**Degree Requirements**

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

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

Contact the department for information about graduate assistantships and scholarships.

**Foundational Proficiencies**

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

- 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 Managerial Finance 3
- TAX 4001 Tax Accounting 3

**Total Hours 30**

A minimum grade of "C" (2.0) is required for all proficiency courses. Proficiencies may be demonstrated by satisfactory completion of equivalent courses or by special examination. Courses completed more than four years prior to admission must be reviewed and, in most instances, an examination to determine proficiency will be recommended.

**Admission Requirements**

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

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

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

- Applicants who have earned a bachelor’s degree in Accounting from an AACSB accredited institution, with an overall undergraduate GPA of 3.00 or higher, and an undergraduate Program/Major GPA of 3.25 or higher.
- Applicants who have passed all four parts of the CPA examination as documented by the National Association of State Boards of Accountancy (NASBA).
- Applicants who have earned a business related master’s degree from an AACSB accredited institution.

**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**

**ACG 6308** Advanced Managerial Accounting 3
**ACG 6805** Seminar in Financial Accounting 3
**ACG 6856** Advanced Auditing 3
**BUL 5831** Commercial Law 3
**FIN 6406** Financial Management 3
**TAX 6065** Tax Data Bases, Research and Procedure 3

**Program Electives** 12

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

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

**Total Hours 30**
Taxation Specialization

For a Taxation Specialization, at least two of the advisor-approved electives must be 5000/6000 level TAX courses.
Normally, the College of Business will not accept transfer credits as equivalent to UWF 5000/6000 level business related courses from institutions not accredited by AACSB International.
Administration

The Master of Science in Administration is designed to prepare students for leadership roles as managers and administrators in public, nonprofit, and private agencies. The core courses prepare students to assume positions in a variety of public administration settings and certificates are available to prepare them for management and administration in a specific field. There are two certificates from which students may choose: Acquisition and Contract Administration and Leadership in Public Service and Nonprofit Administration.

In addition to general University requirements, students seeking the M.S.A. must meet the requirements listed below. No more than 49% of the program requirements for the M.S.A. degree may be taken in traditional business subjects.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (http://catalog.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)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate transcripts and 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

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

Program Requirements

All students in the M.S.A will complete 6 hours of business core, a common public administration core, and at least one 9 credit hour certificate. Students must earn a “C” or above in all courses.

M.S.A Business Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
<td>1.5</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

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. All students in the M.S.A. will complete the M.S.A. core (6 semester hours) and public administration specialization (21 semester hours). Students will also select at least one 9 credit hour certificate. The total hours required to complete the M.S.A. Public Administration is 36 semester hours. Students must earn a “C” or above in all courses.

M.S.A. Core (6 sh)

See Program Requirements

Public Administration Specialization (21 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 6041</td>
<td>Public Service Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6053</td>
<td>Public Administration Professional</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6227</td>
<td>Public Budgeting</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6275</td>
<td>Political Economy of Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6417</td>
<td>Public Service Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6946</td>
<td>Administration Capstone</td>
<td>3</td>
</tr>
<tr>
<td>PUP 5045</td>
<td>Analytic Techniques for Public Policy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

Certificate (9 sh)

Students will choose either the Leadership in Public Service and Nonprofit Administration or the Acquisition and Contract Administration Certificate to complete the degree requirements.

Acquisition and Contract Administration Certificate (9 sh)

Department: Administration and Law

Method of Instruction: Online

Semester Hours: 9

The University of West Florida has the opportunity to provide the training envisioned by Congress and the Office of Management and Budget via the Online Campus with the Certificate in Acquisition and Contract Administration. The courses in the Certificate Program supplement the broader Master of Science in Administration – Public Administration degree program. The certificate prepares students for employment in both DOD and civilian contracting. The certificate is also available to those wishing to enhance their knowledge, but not wishing to complete the entire degree program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5635</td>
<td>Government Contract Law</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5855</td>
<td>Acquisition Administration</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5862</td>
<td>Government Cost and Pricing Analysis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Leadership in Public Service and Nonprofit Administration Certificate

Department: Administration and Law

Method of Instruction: Online

Semester Hours: 9

The Certificate in Leadership in Public Service and Nonprofit Administration is designed to prepare students for leadership roles as managers and administrators in nonprofit and public sector agencies. The program is offered completely online. The courses in the Certificate Program supplement the broader Master of Science in Administration – Public Administration degree program. The Certificate in Leadership in Public Service and Nonprofit 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. The certificate is also available to those wishing...
to enhance their knowledge, but not wishing to complete the entire degree program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5146</td>
<td>The Nonprofit Profession</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5434</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6335</td>
<td>Strategic Management for Public and Nonprofit Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9
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. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

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

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

Degree Requirements

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

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

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

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

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

Program Capstone

Thesis

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

Anthropology

Foundational Proficiencies

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

Degree Requirements

Anthropology Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>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 Anthropolological 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><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

Required Subfield Courses (9 sh)

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

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

Research

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6971</td>
<td>Anthropology Thesis '</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>3</strong></td>
<td></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>Choose one of the following Archaeological Field Methods:</td>
<td>1-9</td>
</tr>
<tr>
<td>ANT 4121</td>
<td>Combined Archaeological Field Methods</td>
<td></td>
</tr>
<tr>
<td>ANT 4824</td>
<td>Terrestrial Archaeological Field Methods</td>
<td></td>
</tr>
<tr>
<td>ANT 4835</td>
<td>Maritime Archaeological Field Methods</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 11-19

* Course offered 1-9 sh per semester

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

5000/6000 level advisor or committee approved History courses.

Total Hours: 9

Electives

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

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 two areas of specialization:
- Biology Specialization (thesis)
- Biology Specialization (non-thesis)

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Graduate Record Exam (GRE) Verbal score of at least 450 and Quantitative score of at least 550 on the old GRE score format, or Verbal score of at least 151 and Quantitative score of at least 152 on the new GRE format.
- Earned baccalaureate degree
  - **Thesis Track:** Applicants for the thesis track should hold a B.S. in Biology or a related field from an accredited college or university. Applicants applying for admission to the thesis track with a B.A. in Biology or a B.S. degree in another area must have satisfactorily completed all upper and lower division core classes (or equivalents) required of UWF biology undergraduates.
  - **Non-Thesis Track:** Applicants applying for admission to the non-thesis track with a B.S. or B.A. in another area must have satisfactorily completed all upper and lower division core classes (or equivalents) required of UWF biology undergraduates.

- Submission of a letter describing the student’s area of interest within biology, relevant past experience, future objectives, and, for students applying to the thesis track, the name of a UWF faculty member who has agreed to serve as their thesis advisor.
- Submission of three letters of recommendation from individuals who can evaluate the student’s academic ability.
- Applicants for the thesis track must have a faculty member who has agreed to provide laboratory space and serve as the applicant’s major advisor. Applicants are urged to speak with prospective faculty advisors prior to the application deadline date. Prior to registration, students in the non-thesis tracks must consult with the faculty advisor assigned to oversee the program into which the student has been accepted.

Department Guidelines

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

Departmental Application Deadlines and Review Process

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

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

Biology Specialization (Thesis)

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

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

- Select a thesis advisory committee composed of a chairperson and at least two additional faculty members.
- Meet with the thesis advisory committee and complete a written plan of study that specifies courses and other work necessary for the program.
- Submit a written research proposal acceptable to the thesis supervisory committee and demonstrate by oral examination that the proposed research is feasible.
- Complete a minimum of 33 semester hours of credit approved by the thesis advisory committee. Fifteen of these hours must be at the 6000 level, and must include the following courses:
  - BSC 6002L Contemporary Laboratory Skills 4
  - BSC 6840 Professional Development in Biology 3
  - BSC 6971 Thesis 1-6
  - PCB 5924 Biology Seminar 1
  - PCB 6074 Experimental Design in Biology 3
  - 5000/6000 level advisor approved electives 16

- Up to six semester hours of thesis may be taken towards degree requirements. Other 5/6000 level advisor approved electives may be taken towards completion of degree if student selects not to take the maximum thesis credits allowed. At least 5 semester hours of thesis is recommended in order to help ensure completion of the 15 hours at the 6000 level.
- Submit an acceptable thesis and successfully defend it in an oral public presentation.
- Earn a grade of "B-" or better in all courses in the program.
- Minimum scores of 151 Verbal and 152 Quantitative on the new GRE are required for admission into the program.

Biology Specialization (Non-thesis)

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

Minimum scores of 151 Verbal and 152 Quantitative on the new GRE are required for admission into the program.

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

The student must complete 36 semester hours of course work composed of the required selections on the list below, and from graduate electives approved by the non-thesis advisor.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 5924</td>
<td>Biology Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BSC 6002L</td>
<td>Contemporary Laboratory Skills</td>
<td>4</td>
</tr>
<tr>
<td>BSC 6840</td>
<td>Professional Development in Biology</td>
<td>3</td>
</tr>
<tr>
<td>PCB 6074</td>
<td>Experimental Design in Biology</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000 level electives</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

* Up to five credit hours of directed study can count as electives

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

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

The M.B.A. program develops the skills of management, the tools of problem-solving, the capacity for decision-making, and the knowledge about formal organizations and their economic environment. The program prepares graduates for leadership positions in a variety of managerial and organizational settings. Students may select from eight areas of emphasis:

- M.B.A. General
- M.B.A. with Accounting emphasis
- M.B.A. with Business Analytics emphasis
- M.B.A. with Entrepreneurship emphasis
- M.B.A. with Hospitality and Tourism Leadership emphasis
- M.B.A. with Human Resources Management emphasis
- M.B.A. with Information Security Management emphasis
- M.B.A. with Supply Chain Logistics Management emphasis

The program of study leading to the M.B.A. degree is a 33-36 semester hour program depending on the area of emphasis. Admission to the M.B.A. program does not require an undergraduate business degree. However, foundation-level proficiency in the major functional areas of business is required to be successful in the program. For all areas of emphasis, these foundational proficiencies can be completed quickly through accelerated foundations. Approximately one-third of students enter with no previous business course work.

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

The M.B.A. program of study is designed to provide both a general view of business and a specialized focus through development of a portfolio and selection of an area of emphasis. Before beginning core classes, students must choose an industry for their portfolio. The portfolio provides opportunity to focus in-depth research in an industry selected by the student. Four of the MBA Core courses require projects that are included in the student’s portfolio.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECP 6705</td>
<td>Advanced Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6406</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MAR 6815</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6137</td>
<td>Business Analytics</td>
<td>3</td>
</tr>
</tbody>
</table>

During the final semester of the M.B.A. program, students are required to submit their portfolios for review by the program director. An exit interview is also conducted and is a requirement for graduation. Students must have a 3.0 (B) or higher GPA to meet graduation requirements.

Admission Requirements

In addition to the University’s graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

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

Primary consideration will be given to the applicant’s academic record and scores on the GMAT or GRE.

* The graduate admission test may be waived for MBA applicants that meet one of the following:

- GPA of at least 3.25 or higher.
- GPA of at least 3.0 and at least three (3) years relevant work experience in an organization (for-profit or non-for-profit) that would normally require an undergraduate degree or experience at running an entrepreneurial business.
- GPA of at least 2.75 and at least (8) years of relevant work experience with increasing levels of responsibility.
- Passed all four parts of the CPA examination as documented by the National Association of State Board of Accountancy (NASBA).
- Completion of UWF’s Graduate Business Foundation Certificate with a GPA of 3.25 or higher.

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

Application and Advising

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

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

Degree Requirements

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

The University’s six-year policy on “Time to Degree: Master’s” applies to completion of all MBA coursework.

**Transfer Credit Policy**

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

**Foundational Proficiencies**

Admission to the M.B.A. program is gained by demonstrating proficiency in the major functional areas of business: accounting, business communications, business ethics, economics, finance, management, management information systems, marketing, and statistics.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2071</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECO 3003</td>
<td>Principles of Economic Theory and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>or ECO 2013 &amp; ECO 2023</td>
<td>Principles of Economics Macro and Principles of Economics Micro</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>GEB 3213</td>
<td>Writing for Business: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ISM 3011</td>
<td>e-Business Systems Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>Calculus with Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Management Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>Marketing Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Elements of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

For those candidates who have no prior undergraduate core business course work or those who still need select prerequisites, the College offers Accelerated MBA Foundation Courses that provide a way for candidates to quickly meet the foundational proficiencies needed to begin the MBA Core Courses. The Accelerated MBA Foundation option is a series of 1.5 credit hour, intensive modules that cover the essential foundational knowledge in each of the prerequisite business subjects. For more information about this option, please contact the M.B.A. Office.

Additional foundational proficiencies required for the areas of emphasis are located in the respective emphasis section.

**MBA Core Courses**

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5878</td>
<td>Business Process Integration</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5930</td>
<td>Information Resources and Industry Analysis</td>
<td>1.5</td>
</tr>
<tr>
<td>QMB 6305</td>
<td>Quantitative Methods for Business</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6309</td>
<td>Accounting for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>or ACG 6308</td>
<td>Advanced Managerial Accounting</td>
<td></td>
</tr>
</tbody>
</table>

For the Accounting emphasis, ACG 6308 Advanced Managerial Accounting replaces ACG 6309.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ECP 6705</td>
<td>Advanced Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6406</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MAR 6815</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6137</td>
<td>Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MAN 6721</td>
<td>Strategic Management and Policy Formulation</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

**Area of Emphasis Courses**

6-9 additional credit hours depending on Area of Emphasis selected.

**Total Program Hours**

33-36

**MBA General Additional Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 6895</td>
<td>Business and Public Policy</td>
<td>3</td>
</tr>
<tr>
<td>MAN 6511</td>
<td>Operations Management Problems</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

**Accounting Area of Emphasis Required Courses**

All Accounting Area of Emphasis courses are offered exclusively online.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6856</td>
<td>Advanced Auditing</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6805</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>TAX 5105</td>
<td>Corporate Income Tax</td>
<td>3</td>
</tr>
<tr>
<td>or BUL 5831</td>
<td>Commercial Law</td>
<td></td>
</tr>
</tbody>
</table>

* Selection is based on advisor approval and course availability.

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

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

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

**Business Analytics Area of Emphasis Required Courses**

All Business Analytics Area of Emphasis courses are offered exclusively online.
ISM 5404 Business Intelligence Applications 3
ISM 5208 Business Data Management 3
ISM 6136 Big Data Mining: A Managerial Perspective 3
Total Hours 9

Entrepreneurship Area of Emphasis Required Courses

All Entrepreneurship Area of Emphasis courses are offered exclusively online.

GEB 5118 New Ventures 3
GEB 5116 Venture Development 3
MAN 5806C Small Business Management Consulting 3
Total Hours 9

Hospitality and Tourism Leadership Area of Emphasis Required Courses

The Hospitality and Tourism Leadership emphasis is only offered in the face-to-face delivery mode.

HMG 5466 Hospitality Financial Analysis & Revenue Optimization 3
HMG 5506 Service Experience Marketing for Hospitality Management 3
HMG 5296 Advanced Global Hospitality and Tourism Shared Economies 3
Total Hours 9

Human Resources Management Area of Emphasis Required Courses

All Human Resources Management Area of Emphasis courses are offered exclusively online.

Students will complete three of the four listed courses below for a total of nine (9) semester hours. Selection is based on advisor approval and course availability.

Choose three out of four courses 9
MAN 5331 Compensation and Benefits
MAN 5351 Recruitment and Selection
MAN 5347 Performance Management
MAN 6317 Strategic Issues in Human Resources Management

Total Hours 9

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

MAN 3301 Human Resources Management 1.5-3
or GEB 5816 MBA Foundations: Principles of Human Resources Management

Information Security Management Area of Emphasis Required Courses

All Information Security Management Area of Emphasis courses are offered exclusively online.

Students will complete three of the four listed courses below for a total of nine (9) semester hours. Selection is based on advisor approval and course availability.

ISM 5327 Legal, Ethical, and Human Aspects of Cybersecurity 3
ISM 5328 Cybersecurity Risk Management 3
ISM 5222 Business Data Communication 3
ISM 6326 Information Systems Auditing and Control 3

Supply Chain Logistics Management Area of Emphasis Required Courses

All Supply Chain Logistics Management Area of Emphasis courses are offered exclusively online.

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

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

MAR 3202 Supply Chain Logistics Management 3
or TRA 3153 Strategic Transportation Management 3
or MAN 3504 Operations Management 3

Certificates

For the College of Business graduate certificates:

• Candidates are required to complete all certificate courses with a grade of “C” or better, and maintain an overall GPA of 3.0 or better.
• Normally, transfer courses cannot be used to satisfy requirements for completion of graduate certificates.
• The University’s six-year policy on “Time to Degree: Master’s” applies to completion of coursework for graduate certificates.

Business Analytics Certificate

This certificate program teaches students the role of analytics as a data-driven decision support toolbox for managers in various business environments. Students will be able to communicate to management the appropriate types of data mining to apply in a business scenario given the data set and organizational context. The importance of data integrity and data privacy will be emphasized.

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

The Graduate Certificate in Business Analytics is available online.

The Graduate Certificate in Business Analytics is not available to students pursuing the MBA with the Business Analytics emphasis.
QMB 6305 Quantitative Methods for Business must be completed prior to starting the certificate.

Graduate Entrepreneurship Certificate

This 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, and consult with small businesses to develop solutions to real business problems.

Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5873</td>
<td>MBA Foundations: Financial Management II</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5874</td>
<td>MBA Foundations: Financial Management III</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Total Hours 9

Core Certificate:

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

Total Hours 9

The Graduate Certificate in Entrepreneurship is available online.

The Graduate Certificate in Entrepreneurship is not available to students pursuing the MBA with the Entrepreneurship emphasis.

Graduate Business Foundations Certificate

This certificate offers 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 certificate also provides the foundation for further graduate study in business and administration.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5870</td>
<td>MBA Foundations: e-Business Systems</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5873</td>
<td>MBA Foundations: Financial Management II</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5874</td>
<td>MBA Foundations: Financial Management III</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Total Hours 12

The Graduate Business Foundations Certificate is available online and face-to-face.

Human Resources Management Certificate

This certificate develops the student’s ability to describe the relationship of Human Resources Management and organizational strategy. Students will evaluate the bases of pay, including incentives and pay for performance systems. Ethical issues related to compensation and benefits will be discussed. Students will demonstrate how to conduct an effective interview and design and develop a training program.

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

Total Hours 12

The Graduate Certificate in Human Resources Management is available online.

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

MAN 3301 Human Resources Management or GEB 5816 MBA Foundations: Principles of Human Resources Management must be completed prior to starting the certificate.

Information Security Management Certificate

This certificate teaches students how to analyze key elements of a complex global hospitality and tourism problem/opportunity and present a defensible recommendation. Students will then create an effective written analysis report and oral presentation of their findings. The curriculum covers strategic leadership, financial analysis and a service marketing experience all within the context of the global hospitality industry.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMG 5466</td>
<td>Hospitality Financial Analysis &amp; Revenue Optimization</td>
<td>3</td>
</tr>
<tr>
<td>HMG 5506</td>
<td>Service Experience Marketing for Hospitality Management</td>
<td>3</td>
</tr>
<tr>
<td>HMG 5296</td>
<td>Advanced Global Hospitality and Tourism Shared Economies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 9

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

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

Hospitality and Tourism Leadership
ISM 5327  Legal, Ethical, and Human Aspects of Cybersecurity  3
ISM 5328  Cybersecurity Risk Management  3
ISM 5222  Business Data Communication  3
ISM 6326  Information Systems Auditing and Control  3
Total Hours  12

The Graduate Certificate in Information Security Management is available online.

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

**Supply Chain Logistics Management Graduate Certificate**

This certificate exposes the student to the utilization of supply chain logistics management concepts to solve business management problems specific to domestic and global logistics and transportation operations. Students will use analytics to assist in identifying critical logistics issues and opportunities in creating and executing supply chain logistics strategies across global marketplaces.

Prerequisites:

MAR 3202  Supply Chain Logistics Management  3
or TRA 3153  Strategic Transportation Management  3
or MAN 3504  Operations Management  3

Total Hours  3

Certificate Courses:

MAN 5619  Global Logistics Management  3
TRA 5206  Logistics Systems and Analytics  3
TRA 5159  Seminar in Supply Chain Logistics Strategy  3

Total Hours  9

The Supply Chain Logistics Management graduate certificate is available online.

The Graduate Certificate in Supply Chain Logistics Management is not available to students pursuing the MBA with the Supply Chain Logistics Management emphasis.
College Student Affairs Administration

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

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

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

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

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

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

Degree Requirements

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

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

CSAA Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6404</td>
<td>Educational Research</td>
<td>3</td>
</tr>
<tr>
<td>EDH 5040</td>
<td>The American College Student: Trends in Higher Education</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 &amp; Financial Management in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6634</td>
<td>Introduction to College Student Affairs</td>
<td>3</td>
</tr>
<tr>
<td>EDH 6948</td>
<td>Internship in Higher Education</td>
<td>6</td>
</tr>
<tr>
<td>SDS 6647</td>
<td>Foundations of Counseling Principles for Student Affairs</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two of the following:

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

Other appropriate graduate level coursework approved by advisor

Total Hours: 42
Computer Science

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

Numerous local and regional companies and governmental agencies employ computer science students.

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

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant's motivation for pursuit of a Master of Science degree, extent of related work experience in the field, and future goals related to the attainment of a M.S. degree described in a letter of intent written by the applicant
- Indication of the applicant's ability as reflected in three letters of recommendation from individuals who can evaluate an applicant's academic potential to succeed in a graduate program

Computer Science Specialization

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

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

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 6415</td>
<td>Advanced Computer Systems and Networks</td>
<td>3</td>
</tr>
<tr>
<td>COP 6025</td>
<td>Advanced Programming Languages</td>
<td>3</td>
</tr>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COT 5930</td>
<td>Computer Science Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Choose 12 credit hours from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Cybersecurity focus:

- CIS 6394 Digital Forensics
- CNT 6519 Wireless Network Security

Data Analytics focus:

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

General CS topics:

- CAP 5600 Introduction to Artificial Intelligence
- CAP 5701 Computer Graphics and Simulation
- Choose 12 credit hours from: 12

Choose one of the following: 6

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

Total Hours 30

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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6095</td>
<td>Software Engineering Practice and Tools</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>5000/6000 level, advisor approved electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td>3</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in two consecutive semesters)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 30

Software Engineering Specialization

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

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6095</td>
<td>Software Engineering Practice and Tools</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6064</td>
<td>Software Design</td>
<td>3</td>
</tr>
<tr>
<td>5000/6000</td>
<td>level advisor approved electives</td>
<td>9</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project (normally 3 sh in consecutive semesters)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 30

**Data Science Certificate**

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science - Bldg 4/223</td>
<td>850-474-3241</td>
<td><a href="http://uwf.edu/computerscience">http://uwf.edu/computerscience</a></td>
<td><a href="mailto:computerscience@uwf.edu">computerscience@uwf.edu</a></td>
</tr>
<tr>
<td>Mathematics - Bldg 4/223</td>
<td>850-474-2276</td>
<td><a href="http://uwf.edu/mathstat">http://uwf.edu/mathstat</a></td>
<td><a href="mailto:mathstat@uwf.edu">mathstat@uwf.edu</a></td>
</tr>
</tbody>
</table>

Method of Instruction: Online

Semester Hours: 15

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

**Admission Requirements:**

Participants must have a B.S. degree in computer science, the mathematical sciences, or a related field with a grade point average of 3.0 or higher. Students will be non-degree seeking, and hence will not require the GRE.

**Program Requirements:**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>STA 5176</td>
<td>Statistical Modeling</td>
<td>3</td>
</tr>
</tbody>
</table>

MAP 5471 Advanced Probability and Inferences 3
Total Hours 15

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

**Database Systems Certificate**

Department: Computer Science

Method of Instruction: Online

Semester Hours: 12

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

Choose one of the following Programming prerequisites: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 2253</td>
<td>Programming Using Java</td>
<td>3</td>
</tr>
<tr>
<td>COP 2334</td>
<td>Programming Using C++</td>
<td>3</td>
</tr>
<tr>
<td>CGS 3464</td>
<td>Programming Using Visual Basic</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 12

Required course:

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

Choose two of the following electives: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

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: an internship option (Option 1) and an area research paper option (Option 2). Each option requires a minimum of 33 credit hours, including 24 credit hours of criminal justice coursework. The internship option (Option 1) requires 15 credit hours of required coursework, a 3 credit hour internship, plus an additional 6 credit hours minimum of criminal justice electives and 9 credit hours of criminal justice or noncriminal justice electives. The area paper option (Option 2) requires 15 credit hours of required coursework, a 3 credit hour area paper, plus an additional 6 credit hours minimum of criminal justice electives and 9 credit hours of criminal justice or noncriminal justice electives.

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

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

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. 11) 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.

Criminal Justice Course Requirements

<table>
<thead>
<tr>
<th>Major Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Criminal Justice Required Core</td>
</tr>
<tr>
<td>CCJ 6061 Criminological Theory</td>
</tr>
<tr>
<td>CCJ 6008 Criminal Justice Theory</td>
</tr>
<tr>
<td>CCJ 6704 Research Methodology</td>
</tr>
<tr>
<td>CCJ 6705 Analysis of Quantitative and Qualitative Data</td>
</tr>
<tr>
<td>Select One:</td>
</tr>
<tr>
<td>CCJ 6745 Policing and Society</td>
</tr>
<tr>
<td>CCJ 6006 Criminal Justice Administration</td>
</tr>
<tr>
<td>CJC 6021 Penology</td>
</tr>
<tr>
<td>CJL 6521 Courts and Society</td>
</tr>
<tr>
<td>One of the following options: 18</td>
</tr>
<tr>
<td>Option 1</td>
</tr>
<tr>
<td>CCJ 6946 Criminal Justice Internship</td>
</tr>
<tr>
<td>Two CCJ, CJC, CJE, CJL, CJJ, or DSC Electives</td>
</tr>
<tr>
<td>Three Unrestricted Electives</td>
</tr>
<tr>
<td>Option 2</td>
</tr>
<tr>
<td>CCJ 6910 Criminal Justice Area Paper</td>
</tr>
<tr>
<td>Two CCJ, CJC, CJE, CJL, CJJ, or DSC Electives</td>
</tr>
<tr>
<td>Three Unrestricted Electives</td>
</tr>
</tbody>
</table>

Total Hours 33
Curriculum and Instruction

The Curriculum and Instruction Comprehensive Master's Program is part of the National Council for Accreditation of Teacher Education (NCATE) accredited Professional Education Unit but is not an initial certification program. Although students earning the M.Ed. in Curriculum and Instruction may complete courses in more than one specialization, only one degree will be awarded. For specializations in Elementary Education Comprehensive, Middle Level Education Comprehensive, and Secondary Education Comprehensive, students will choose a cognate area in conjunction with an advisor. The M.Ed. in Curriculum and Instruction offers seven pre-approved cognates: Elementary; Middle-level; Secondary; Career & Technical; Instructional Technology; Reading Endorsement; and a Professional Training Option. Students pursuing the Professional Training Option must be enrolled in either the Middle Level Education Comprehensive or the Secondary Education Comprehensive Specializations.

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

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. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for provisional admission:

- Hold or be seeking professional teaching certification*
- Have earned a GPA of at least 3.0 on bachelor's degree**
- Submit a current (within five years) official Graduate Record Exam (GRE) scores OR Miller Analogies Test (MAT) score***
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references

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

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

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

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

* Applicants to the Professional Training Option must meet the FLDOE subject area requirements (http://www.fldoe.org/edcert/sublist.asp) for certification in middle or secondary English, math, science, or social sciences.

** Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program.

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

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

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

Elementary Education Comprehensive Specialization

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in elementary education. An action research project is required as the capstone experience of the program.

Required Core

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

Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken during the first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6918</td>
<td>Research Practicum (should be taken next-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Cognate Coursework

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

**Middle Level Education Comprehensive Specialization**

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in middle level education. An action research project is required as the capstone experience of the program.

**Required Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6288</td>
<td>Educational Assessment</td>
<td>3</td>
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<tr>
<td>Total Hours</td>
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<td>12</td>
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</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>EDG 6918</td>
<td>Research Practicum (should be taken next-to-last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Cognate Coursework**

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

**Secondary Education Comprehensive Specialization**

This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in secondary education. An action research project is required as the capstone experience of the program.

**Required Core**

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
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<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

**Cognate List**

Students in the Elementary Education Comprehensive, Middle Level Education Comprehensive, and Secondary Education Comprehensive Specializations must complete at least 15 hours of coursework in an approved cognate. The following are pre-approved cognates, but additional cognates may be approved by the chair.

**Elementary Education Cognate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 5342</td>
<td>Effective Teaching and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 5349</td>
<td>Models of Teaching Math, Science and Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>EME 5316</td>
<td>Instructional Technology Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5345</td>
<td>Methods of Advanced Language Arts and Writing</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 6116</td>
<td>Foundations of Literacy Development</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5085</td>
<td>ESOL Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>15</td>
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</tbody>
</table>

**Instructional Leadership Cognate**

<table>
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<th>Title</th>
<th>Hours</th>
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</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>Total Hours</td>
<td></td>
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</tr>
</tbody>
</table>

**Instructional Technology Cognate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 5316</td>
<td>Instructional Technology Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EME 6408</td>
<td>Integrated Technology Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Middle Level Education Cognate**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 5316</td>
<td>Instructional Technology Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EME 6408</td>
<td>Integrated Technology Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>15</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>EDG 5342</td>
<td>Effective Teaching and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5349</td>
<td>Models of Teaching Math, Science and Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>EME 5316</td>
<td>Instructional Technology Leadership</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5468</td>
<td>Literature for Children and Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Literacy Development</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5085</td>
<td>ESOL Principles and Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Advisor approved elective

**Total Hours**: 15

### Professional Training Option Cognate (15 hours)

The professional training option is a Florida Department of Education approved series of courses designed to prepare individuals with baccalaureate degrees in English, Mathematics, Sciences, or Social Studies who plan to teach middle or secondary level education. Upon completion of the required coursework, students may apply for a teaching certificate in the state of Florida. Students who wish to teach outside the state of Florida need to communicate directly with the Department of Education in their respective states.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5304</td>
<td>Introduction to Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5342</td>
<td>Effective Teaching and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>RED 6060</td>
<td>Foundations of Middle and Secondary Literacy</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5085</td>
<td>ESOL Principles and Practices</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5349</td>
<td>Models of Teaching Math, Science and Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5940</td>
<td>Graduate Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5345</td>
<td>Methods of Advanced Language Arts and Writing</td>
<td>3</td>
</tr>
<tr>
<td>LAE 5468</td>
<td>Literature for Children and Young Adults</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 15

### Reading Endorsement Cognate

The Department of Teacher Education and Educational Leadership offers 15 semester hours of online graduate coursework approved by the Florida Department of Education (FDOE) for the Florida Reading Endorsement. Upon completion of the coursework, one may apply to the FDOE to have the endorsement added to a current teaching certificate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 5515</td>
<td>Classroom Reading Assessments (Spring)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6060</td>
<td>Foundations of Middle and Secondary Literacy (Fall)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6116</td>
<td>Foundations of Literacy Development (Fall)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6240</td>
<td>Differentiating Instruction (Spring)</td>
<td>3</td>
</tr>
<tr>
<td>RED 6866</td>
<td>Reading Practicum (Summer)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours**: 15

### Secondary Education Cognate

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose four of the following: 12

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5342</td>
<td>Effective Teaching and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5349</td>
<td>Models of Teaching Math, Science and Social Studies</td>
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<td>Foundations of Literacy Development</td>
<td>3</td>
</tr>
<tr>
<td>TSL 5085</td>
<td>ESOL Principles and Practices</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Elective</td>
<td></td>
<td></td>
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</tbody>
</table>

**Total Hours**: 15
Educational Leadership

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

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

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

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues. The Educational Leadership Certification Program has a field experience in each course. Students must have access to and work with an administrator in a school or educational setting.

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>
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<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Leadership in Education: School Improvement Theory and Practice</td>
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</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>
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<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5250</td>
<td>Principles of Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6285</td>
<td>Data Driven Decisions Using Standardized Student Achievement Data</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6105</td>
<td>Human Relations and Communication in Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 30
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. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 153 and Analytical Writing score of at least 4.5 or equivalent GRE percentile performance under the old testing platform
  - Miller Analogies Test (MAT) scaled score of at least 413
  - The GRE/MAT requirement may be waived if: the applicant holds an undergraduate degree in English from an accredited university with a cumulative GPA of 3.5 or higher; the applicant has completed a master’s or doctoral degree in any humanities or social science field with a cumulative GPA of 3.5 or higher; the applicant holds an undergraduate degree in any humanities field with a GPA of 3.7 or higher; the applicant has an undergraduate or graduate degree from an accredited university in any field, a cumulative GPA of 3.5 or higher, and three or more years of experience as a teacher of English or in a writing-intensive field (journalism, technical writing, etc., to be approved by the department chair)

- Minimum of 20 semester hours of undergraduate work in English at the junior/senior level. This requirement may be waived under special circumstances. Contact the department for more information.

- Submission of two-page statement of purpose that details intellectual and professional goals and describing how the MA in English at UWF will help fulfill those goals

- Submission of three letters of recommendation from former instructors or, in certain instances, current employers or colleagues who can speak to the applicant’s critical thinking and writing skills

- 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)

Students applying for graduate admission may be considered for scholarship, fellowship, and assistantship opportunities. Application deadlines for those wishing to apply for these opportunities are posted on the Graduate School website (https://uwf.edu/graduate).

Students who meet other requirements, but lack some of the required undergraduate preparation, may be granted provisional admission to the M.A. program. All students admitted provisionally must satisfactorily complete specific requirements stipulated by the departmental graduate committee before full admission.

Degree Requirements

The M.A. in English is a program of advanced study of English language and literature. There is both a thesis and a non-thesis track to the completion of an M.A. in English. In addition to the general University requirements, students seeking an M.A. in English in both the thesis and a non-thesis track must meet the following requirements. The M.A. in English requires a minimum of 33 semester hours of course work, 18 semester hours of which must be in courses at the 6000 level. Students completing 18 semester hours of course work at the 6000 level with a grade point average of 3.5 or above are eligible for the thesis track. Students lacking the grade point average minimum may petition the chair of the department to be allowed to pursue the thesis track. Students petitioning the department chair for entrance to the thesis track are required to have a letter of support from a member of the graduate faculty in the Department of English. After they have completed 30 semester hours of graduate level work, M.A. candidates in the thesis track are required to begin the thesis process by registering for ENG 6971 Thesis. After they have completed 30 semester hours of graduate level work, M.A. candidates in the non-thesis track must complete an additional six semester hours of course work.

At the time of admission, students will indicate their choice of a program specializing either in literature or in creative writing and, after 18 semester hours of coursework at the 6000 level, declare whether they intend to pursue the thesis or the non-thesis track.

Topics courses with different areas of emphasis may be repeated for a maximum of nine semester hours of credit with the permission of the graduate advisor.

Before graduation, students must satisfactorily complete the required 30 semester hours of course work. Students in the thesis track must also complete 3 semester hours of thesis. Students in the non-thesis track must complete an additional six semester hours of course work.

A grade of C or better is required for all coursework to be applied to the degree program.
Students in both the thesis and non-thesis tracks must demonstrate reading competency in one foreign language. This competency may be demonstrated in one of two ways:

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

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

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

### Creative Writing Specialization

**Graduate English Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td>ENG 5009</td>
<td>Introduction to Advanced Literary Study</td>
<td>3</td>
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<tr>
<td>ENG 6018</td>
<td>History of Literary Theory</td>
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One of the following:

<table>
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<th>Title</th>
<th>Credit</th>
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</thead>
<tbody>
<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>
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--OR-- Approved electives (6 sh required)

Choose four from the following: 12

<table>
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<th>Course</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>
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Choose 12 sh from three of the following five blocks: 12

**BLOCK I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENL 6297</td>
<td>Topics in British Literature to the Romantics</td>
</tr>
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</table>

**BLOCK II**

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<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENL 6298</td>
<td>Topics in British Literature from the Romantics to Present</td>
</tr>
</tbody>
</table>

**BLOCK III**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>AML 6506</td>
<td>Topics in American Literature to 1900</td>
</tr>
</tbody>
</table>

**BLOCK IV**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>AML 6507</td>
<td>Topics in American Literature 1900-Present</td>
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**BLOCK V**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 5945</td>
<td>English Internship</td>
</tr>
<tr>
<td>LIT 5018</td>
<td>Topics in Fiction</td>
</tr>
<tr>
<td>LIT 5037</td>
<td>Topics in Poetry</td>
</tr>
<tr>
<td>LIT 5105</td>
<td>Topics in World Literature</td>
</tr>
<tr>
<td>ENC 5333</td>
<td>Topics in Rhetoric</td>
</tr>
<tr>
<td>ENG 5067</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>ENL 5206</td>
<td>Old English Language</td>
</tr>
<tr>
<td>LIT 5556</td>
<td>Feminist Theory</td>
</tr>
</tbody>
</table>

Total Hours 33-36

---

### Literature Specialization

**Graduate English Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 5009</td>
<td>Introduction to Advanced Literary Study</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6018</td>
<td>History of Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6019</td>
<td>Topics in Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>AML 6506</td>
<td>Topics in American Literature to 1900</td>
<td>3</td>
</tr>
<tr>
<td>AML 6507</td>
<td>Topics in American Literature 1900-Present</td>
<td>3</td>
</tr>
<tr>
<td>ENL 6297</td>
<td>Topics in British Literature to the Romantics</td>
<td>3</td>
</tr>
<tr>
<td>ENL 6298</td>
<td>Topics in British Literature from the Romantics to Present</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following:

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

--OR-- Approved electives (6 sh required)

Choose three of the following: 9

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<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>
<tr>
<td>LIT 5018</td>
<td>Topics in Fiction</td>
</tr>
<tr>
<td>LIT 5037</td>
<td>Topics in Poetry</td>
</tr>
<tr>
<td>LIT 5105</td>
<td>Topics in World Literature</td>
</tr>
<tr>
<td>ENC 5333</td>
<td>Topics in Rhetoric</td>
</tr>
<tr>
<td>ENC 5945</td>
<td>English Internship</td>
</tr>
<tr>
<td>ENG 5067</td>
<td>History of the English Language</td>
</tr>
<tr>
<td>ENL 5206</td>
<td>Old English Language</td>
</tr>
<tr>
<td>LIT 5556</td>
<td>Feminist Theory</td>
</tr>
</tbody>
</table>

Total Hours 33-36
Environmental Science

The M.S. in Environmental Science provides advanced research and educational opportunities in the earth and environmental sciences. Departmental areas of concentration include coastal science, paleoclimatology, landscape ecology, geographic information science, aquatic biogeochemistry, and soils science. The program includes both thesis and non-thesis tracks. The non-thesis track provides a foundation for employment in the private and public sectors of the environmental fields. In addition, the thesis track prepares students for advanced study leading to the doctoral degree. Contact the department for information regarding the graduate certificate in Geographic Information Systems (GIS).

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- A Graduate Record Examination (GRE) verbal score at or above the 50th percentile and a quantitative score at or above the 40th percentile
- Submission of a formal letter of interest, background, and professional goals
- Submission of three letters of recommendation by individuals in professionally relevant fields (waived for graduates of the UWF Department of Earth and Environmental Sciences)
- Submission of current curriculum vitae (CV)/résumé
- Completion of the Foundational Proficiencies as a condition of admission to the program

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

Foundational Proficiencies

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

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

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

Degree Requirements

Students accepted into the M.S. program should select, ideally by the end of their first semester, their graduate advisor and graduate committee members. At least two committee members must be Earth and Environmental Sciences 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 Course Requirements

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>Choose one of the following:</td>
<td></td>
<td></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></td>
</tr>
</tbody>
</table>

Total Hours: 9

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVS 6971</td>
<td>Thesis (Course offered 1-6 sh per semester)</td>
<td>1-6</td>
</tr>
<tr>
<td>Advisor-approved graduate course work</td>
<td>15-20</td>
<td></td>
</tr>
<tr>
<td>Total hours</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 6118</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EVS 6940</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>GEO 6905</td>
<td>Directed Study</td>
<td></td>
</tr>
<tr>
<td>Advisor-approved graduate course work</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 27
Exceptional Student Education

The M.A. in Exceptional Student Education is a comprehensive program. There is a critical shortage of certified teachers, administrators, related professionals, and specialists in many areas of exceptional student education.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for provisional admission:

- Hold or be seeking professional teaching certification
- Have earned a GPA of at least 3.0 on bachelor's degree
- Submit a current (within five years) official Graduate Record Exam (GRE) verbal score OR Miller's Analogies Test (MAT) score
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references

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

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

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

* Applicants pursuing the Applied Behavior Analysis cognate are not required to hold or be seeking current professional teacher certification

** Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program.

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

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

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

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

Exceptional Student Education Comprehensive

The comprehensive master's degree program in Exceptional Student Education is part of the CAEP accredited Professional Education Unit but is not an initial certification program. This program is designed to develop master teachers who will be prepared for instructional and leadership roles in special education.

Students will be assigned a faculty mentor who will provide career advice and advisement concerning professional issues. Students in this master's degree program have the option of selecting one of two specializations:

- Special & Alternative Education Specialization
- Applied Behavior Analysis Specialization

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

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

Before graduating, students enrolled in the Special & Alternative Education Specialization will be required to complete an action research project as a capstone experience. All required courses must be completed with a grade of "C" or higher.

Applied Behavior Analysis Specialization (36-42 hours)

Intensive Applied Behavior Analysis Cognate (36-42 hours)

Required Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6691</td>
<td>Issues in Teacher Education: A Bio-Psycho-Social Perspective (EDF 6557 Ethics in Applied Behavior Analysis maybe substituted for this course.)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6288</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
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<td>12</td>
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</tbody>
</table>

Educational Investigative Sequence Courses

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

Intensive Applied Behavior Analysis Cognate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6223</td>
<td>Applied Behavior Analysis and System Support</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6437</td>
<td>Measurement and Single Case Design</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6944</td>
<td>Advanced Single Case Design</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Hours</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------</td>
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<tr>
<td>EDF 6225</td>
<td>Foundations of Applied Behavior Analysis in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6226</td>
<td>Behavioral Assessments, Interventions, and Outcomes in Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6222</td>
<td>Concepts of Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6227</td>
<td>Experimental Analysis of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6943</td>
<td>Supervised Experience in Single Case Design</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6224</td>
<td>Supervision and Management Fluency</td>
<td>3</td>
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<tr>
<td></td>
<td>Total Hours</td>
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</table>

* Optional Courses

### Special & Alternative Education Specialization (36-42 hours)

#### Required Core Courses

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 5366</td>
<td>Investigative Strategies and Empirical Foundations in Learning and Development (should be taken first or second semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research (should be taken last semester)</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6918</td>
<td>Research Practicum (should be taken second-to-last semester)</td>
<td>3</td>
</tr>
<tr>
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#### Special Education Cognate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<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>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Electives</td>
<td></td>
<td>6</td>
</tr>
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<td></td>
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#### Alternative Education Cognate Courses

<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>EDG 6662</td>
<td>Integrated Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Electives</td>
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<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
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</tr>
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</table>
Family Nurse Practitioner

This innovative and flexible blended (face to face and online) program prepares the professional nurse for an advanced nursing practice as a Family Nurse Practitioner and doctoral studies (including a cooperative doctorate with the University of Florida). The Family Nurse Practitioner (FNP) consists of 45 semester hours (sh) of coursework.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- An earned Bachelor of Science in Nursing degree from an NLNAC, ACEN, or CCNE accredited nursing program with a minimum overall grade point average of 3.0 on a 4.0 scale OR a 3.0 (GPA) on a 4.0 scale in the last 60 hours of coursework on the BSN.
- Completion of an undergraduate statistics course with a grade of "C" or better.
- Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
- Possess a current unencumbered Registered Nurse license to practice nursing in a state or territory of the United States.
- Express Admission Students are required to become licensed as a registered nurse to practice in a state or territory of the United States by the end of the first semester of enrollment to progress in the program.
- Submission of Curriculum vitae (CV) that includes: work history, educational background, and community service involvement.
- Submit career goals statement that includes a narrative writing of your future career plans (where you hope to see yourself professionally in the next 5-10 years) and should be an example of your writing skills. References are not necessary. Submission should be typed and between 150-200 words.
- Submit copy of your RN license.
- Approval by the School of Nursing Graduate Admissions Committee. Admission to this program is competitive and selective.

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

- Applicant must have earned a Bachelor of Science in Nursing (BSN) from a NLNAC, ACEN, or CCNE accredited nursing program with a minimum overall grade point average (GPA) of 3.0 on a 4.0 scale OR a 3.0 (GPA) on a 4.0 scale in the last 60 hours of coursework on the BSN.

If an applicant is unable to meet the above criteria, they may petition the Nursing Department Graduate Admissions Committee and request a special review.

Please note that upon admission the M.S.N. student will receive information concerning current UWF School of Nursing requirements for enrollment. These include, but are not limited to: physical examination and immunizations; Level 2 criminal background check; drug screen; VECHS fingerprinting; AHA BCLS certification; proof of professional liability insurance; and proof of personal health insurance.

Degree Requirements

Students wishing to earn a M.S.N. and a Family Nurse Practitioner must successfully complete both the core courses and the specialty courses. All courses in the plan of study must be passed at a grade of "B" or higher. No more than 49% of the program requirements for the M.S.N. and Family Nurse Practitioner degree may be taken in traditional business subjects.

Family Nurse Practitioner Specialization

M.S.N. Direct Care Core (9 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>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 6172</td>
<td>Advanced Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6140</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

M.S.N Common Core (14 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6111</td>
<td>Foundations of Nursing Science</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6803</td>
<td>Integration of Evidence in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6893</td>
<td>Health Systems Leadership and Policy Strategies</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6638</td>
<td>Population Health Promotion and Management</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6835</td>
<td>Project Evaluation and Dissemination</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

Family Nurse Practitioner Specialization (22 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6201</td>
<td>Care of the Adult I</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6201L</td>
<td>Care of the Adult I Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6202</td>
<td>Care of the Adult II</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6202L</td>
<td>Care of the Adult II Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6301</td>
<td>Care of the Child and Family</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6301L</td>
<td>Care of the Child and Family Practicum</td>
<td>2</td>
</tr>
<tr>
<td>NGR 6343</td>
<td>Women’s Health</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6343L</td>
<td>Care of Women Practicum</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>22</strong></td>
</tr>
</tbody>
</table>
Geographic Information Science (GIS) Administration

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

Admission Requirements

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

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

*GRE waiver will apply to the following:
- UWF Graduate GIS Certificate holders with a Certificate GPA of 3.0 or higher
- UWF undergraduate GIS Certificate holders with a Certificate GPA of 3.5 or higher
- Students who hold previous MS or MA graduate degrees

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

Geographic Information Science Administration

Foundational Proficiencies (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 4006+L</td>
<td>Computer Cartography (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>or GIS 5007 &amp; 5007L</td>
<td>Computer Cartography and Computer Cartography Lab</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4035+L</td>
<td>Photo Interpretation and Remote Sensing (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>or GIS 5027 &amp; 5027L</td>
<td>Aerial Photography and Remote Sensing and Aerial Photography 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>or GIS 5050 &amp; 5050L</td>
<td>Geographic Information Systems and Geographic Information Systems Lab</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Management Core (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5816</td>
<td>MBA Foundations: Principles of Human Resources Management</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
</tbody>
</table>

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

Graduate Certificate in GIS

Department: Earth and Environmental Sciences

Semester Hours: 12

This Graduate Geographic Information Science Certificate program (http://uwf.edu/cse/departments/earth-and-environmental-sciences/geographic-information-science/geographic-information-science/graduate-gis-certificate---online) 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. 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, urban planning, archaeology, business, defense and intelligence, information technology services, 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 completing this program can expect to be marketable as GIS Technicians, GIS Analysts, and GIS Managers within various industries. Students may choose to complete the Graduate GIS Certificate program either at the Pensacola campus in-person or through our Online campus.

Two specializations are available under the GIS Graduate Certificate program: Traditional GIS and Archaeology. Six semester hours are devoted to each specialization. The Archaeology option is only offered online. See the Course Catalog (http://catalog.uwf.edu/courseinformation/courses/gis) for course descriptions. Students accepted into the certificate program of their choice should schedule to meet with a program advisor to receive a detailed course plan.

Students who successfully complete the 24-credit program (including pre-requisites) with a 3.0 overall GPA will be awarded a Graduate Geographic Information Science Certificate. Graduate
Certificate courses count towards the MS in Geographic Information Science Administration (http://uwf.edu/cse/departments/earth-and-environmental-sciences/graduate-programs/ms-gis-administration) program.

**Admission Requirements**

Admission requirements vary slightly between our Pensacola campus and Online campus offerings.

**Pensacola Campus Graduate Certificate in GIS Program:**
- Admission to UWF as a degree seeking Graduate student.
- Discuss your intentions with your advisor
- Complete a Declaration of Certificate form

**Online Campus Graduate Certificate in GIS Program:**
- Submission of GIS Certificate Program Application
- Provide proof of Bachelor's degree from a regionally accredited institution
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the certificate program, including how the certificate relates to career goals
- Admission to UWF as a degree or non-degree seeking Graduate student
- Complete a Declaration of Certificate form

**Foundational Proficiencies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 4043/4043L</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5050/5050L</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>GIS 3015+L</td>
<td>Cartographic Skills (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5007/5007L</td>
<td>Computer Cartography</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4035/4035L</td>
<td>Photo Interpretation and Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>GIS 5027/5027L</td>
<td>Aerial Photography and Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Core Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
</tr>
<tr>
<td><strong>Choose one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td>GIS 5039</td>
<td>Applications in Remote Sensing</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
</tr>
<tr>
<td>GIS 5265</td>
<td>GIS Applications for Archaeology (Offered only in online Certificate program)</td>
</tr>
<tr>
<td><strong>Choose one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
</tr>
<tr>
<td>GIS 5938</td>
<td>Special Topics in GIS for Archaeology</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
</tr>
<tr>
<td><strong>Choose three semester hours from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>GIS 5945</td>
<td>GIS Internship</td>
</tr>
</tbody>
</table>

**Graduate Geographic Information Science - Archaeology Certificate**

**Department:** Earth and Environmental Sciences

Veterans Affairs (VA) Certified? Yes

Semester Hours: 12

The Graduate GIS - Archaeology certificate program (http://uwf.edu/cse/departments/earth-and-environmental-sciences/geographic-information-science/geographic-information-science/geographic-information-science/graduate-gis-archaeology-certificate) is offered through the Online Campus and is designed to teach students, from novice to working professionals, both the highly in-demand technical skill of using industry-standard geospatial software as well as a strong conceptual foundation in Geographic Information Science. Geographic Information Systems is a computerized system that allows users to work with, interrelate, and analyze virtually all forms of spatial data for decision making. Students can expect to learn latest technologies that are revolutionizing many disciplines, including geography, environmental sciences, archaeology, business, defense and intelligence, and public health/safety in the information age. The archaeology program utilizes ArcGIS to create, visualize, query, and model archaeological, historical and anthropological data. Additionally, the program is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects while recognizing the ethical issues associated with the management of sensitive data. Required courses and GIS internship have been carefully combined to reflect the real-world requirements needed for those interested in using GIS in the fields of archaeology and anthropology. Students completing this program can expect to be marketable as GIS Technicians, GIS Analysts, and GIS Managers within the fields of archaeology and anthropology and other industries.

Offered completely online, our graduate GIS Archaeology Certificate program is designed for non-degree and degree seeking working professionals seeking part-time education from a distance.

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

**Admission Requirements**

- Submission of GIS Certificate Program Application
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the certificate program, including how the certificate relates to career goals
- Proof of Bachelor's degree
- Admission to UWF as a degree or Graduate non-degree seeking student
- Complete a Graduate Certificate Declaration Form

Students may transfer one class (3 or 4 credits) into the graduate certificate program providing the transfer criteria are met. The class must be an upper level undergraduate class from a regionally accredited U.S. university.

**Foundational Proficiencies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 4006+L</td>
<td>Computer Cartography (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Hours</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>GIS 5007+L</td>
<td>Computer Cartography (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4043+L</td>
<td>Geographic Information Systems (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Or</strong></td>
<td></td>
</tr>
<tr>
<td>GIS 5050+L</td>
<td>Geographic Information Systems (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td>GIS 4035+L</td>
<td>Photo Interpretation and Remote Sensing (+Lab)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Or</strong></td>
<td></td>
</tr>
<tr>
<td>GIS 5027+L</td>
<td>Aerial Photography and Remote Sensing (+Lab)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Courses**

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

**Total Hours** 12
Health, Leisure, and Exercise Science

The M.S. in Health, Leisure, and Exercise Science offers specializations in Exercise Science (39 sh) and Physical Education and Human Performance (36 sh). The Exercise Science specialization emphasizes in depth study of the human body's response to exercise and physical activity and performance across the lifespan. The Physical Education and Human Performance specialization emphasizes applied study of physical activity promotion and performance in both the K-12 and community settings.

Exercise Science Specialization

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
  - Undergraduate Cumulative GPA
  - Undergraduate Senior Year/Major GPA
  - Academic Preparation as demonstrated by undergraduate degree major
  - Submission of letter of intent describing reasons for applying to this program and associated career goals
  - Certifications (ACSM, NSCA, ACE, AFA)
  - Work Experience as reflected in a résumé

Degree Requirements

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

Exercise Science Core

<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>APK 5702</td>
<td>Statistics in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>APK 5116C</td>
<td>Applied Physiology in Muscular</td>
<td>3</td>
</tr>
<tr>
<td>APK 5204</td>
<td>Applied Motor Learning/Control in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>APK 5601</td>
<td>Preventative Health in the Aging Population</td>
<td>3</td>
</tr>
<tr>
<td>APK 6172C</td>
<td>Cardiac Electrophysiology</td>
<td>3</td>
</tr>
<tr>
<td>APK 6111C</td>
<td>Advanced Exercise Physiology</td>
<td>3</td>
</tr>
<tr>
<td>APK 6127C</td>
<td>Clinical Exercise Testing and Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>APK 6167C</td>
<td>Advanced Human Nutrition and Metabolism</td>
<td>3</td>
</tr>
<tr>
<td>APK 6226</td>
<td>Analysis of Human Movement</td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>33</td>
</tr>
</tbody>
</table>

Thesis or Internship Track

Students will choose one of the following tracks.

Thesis Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APK 6970</td>
<td>Research for Master's Thesis</td>
<td>3-6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>3-6</td>
</tr>
</tbody>
</table>

Internship Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>APK 6940</td>
<td>Internship in Exercise Science</td>
<td>3-6</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>3-6</td>
</tr>
</tbody>
</table>

Physical Education and Human Performance Specialization

The Physical Education and Human Performance Master’s degree specialization is an advanced educational program designed to prepare one to lead individuals in areas of physical education, physical activity, fitness, wellness, and health. Each of these areas requires leaders who can successfully and effectively plan, motivate, communicate, explain, connect, demonstrate, and reflect. These professional behaviors are all developed through subject-specific pedagogy.

Course instructors allow students to learn pedagogy through individualized instruction. In other words one will be allowed to shape course requirements and assignments around his or her interest or profession. Those who are interested in enhancing their teaching skill will find that their coursework will revolve around curriculum, units, and lessons. Current or future coaches will align their coursework to season goals, sport-specific skill, and practices. Fitness, training, and health professionals will address prescription, instruction, and assessment. The two-year online program culminates with a project in lieu of thesis which conceptually makes a significant contribution to a PEHP field.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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 if one of the test waiver criteria is not met:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
  - Undergraduate Cumulative GPA
  - Undergraduate Senior Year/Major GPA
  - Academic Preparation as demonstrated by undergraduate degree major
  - Submission of letter of intent describing reasons for applying to this program and associated career goals
  - Certifications (ACSM, NSCA, ACE, AFA)
  - Work Experience as reflected in a résumé

The graduate test requirement may be waived if one of these conditions is met:
1. The applicant has a 3.25 undergraduate GPA or higher;
2. The applicant has a 3.0 undergraduate GPA and three years of relevant work experience in training, coaching, or teaching (e.g., sport, physical activity, physical education) that would normally require a bachelor's degree;
3. The applicant holds a terminal degree (Ph.D., J.D., Ed.D. etc.) or an advanced professional degree (M.S., M.A., etc.) from an accredited college or university.

**Degree Requirements**

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

**Physical Education (36 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6535</td>
<td>Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PET 5701</td>
<td>Systematic Observation in Sport and Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>PET 5702</td>
<td>Advanced Management of Physical Activity Programs</td>
<td>3</td>
</tr>
<tr>
<td>PET 5708</td>
<td>Physical Activity Program Development</td>
<td>3</td>
</tr>
<tr>
<td>PET 5709</td>
<td>Advanced Physical Activity Program Development</td>
<td>3</td>
</tr>
<tr>
<td>PET 5805</td>
<td>Analysis and Supervision in Sport and Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>PET 6015</td>
<td>Professional Issues in Physical Activity Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>PET 6706</td>
<td>Analysis of Research in Physical Activity Disciplines</td>
<td>3</td>
</tr>
<tr>
<td>PET 6707</td>
<td>Advanced Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>PET 6223</td>
<td>Teaching and Motivation for Physical Activity Leaders</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 6

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
</tr>
<tr>
<td>PET 6950</td>
<td>Project in Lieu of Thesis</td>
</tr>
</tbody>
</table>

Total Hours 36
Health Promotion

A M.S. degree in Health Promotion and Worksite Wellness prepares students to design, implement, and evaluate interventions that promote healthy behaviors and lifestyles. Coursework reflects current professional standards and practices in the health promotion field. Coursework will prepare the student for the Certified Health Education Specialist (CHES) exam, a competency-based tool used to measure the possession, application and interpretation of knowledge in the Seven Areas of Responsibility for Health Education Specialists.

The Health Promotion and Worksite Wellness program is interdisciplinary and addresses the needs of students from a variety of academic backgrounds. A total of 39 semester hours are required for completion of this program. Electives allow students to further specialize their course of studies in areas of interest within this focus and are carefully chosen in conjunction with their advisor.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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

The graduate test requirement may be waived if one of these conditions is met:
1. The applicant has a 3.25 undergraduate GPA or higher;
2. The applicant has a 3.0 undergraduate GPA and three years of relevant work experience in health promotion that would normally require a bachelor’s degree;
3. The applicant holds a terminal degree (Ph.D., J.D., Ed.D., etc.) or an advanced professional degree (M.S., M.A., etc.) from an accredited college or university.

Foundational Proficiencies

Students in the Health Promotion and Worksite Wellness must have previous credit in human anatomy, physiology, or pathophysiology; general science course, and personal and community health; or the equivalent.

Health Promotion And Worksite Wellness

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 5506</td>
<td>Advanced Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6037</td>
<td>Philosophical Foundations of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6226</td>
<td>Current Issues in Worksite Wellness</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6587</td>
<td>Health Education Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6667</td>
<td>Social Marketing in Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6666</td>
<td>Health Education and Interactive Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 15 sh from the courses listed below: 15

- APK 6111C  Advanced Exercise Physiology
- HLP 6940   Internship
- HLP 6971   Thesis
- HSA 6521   Critical Analysis of Health
- HSC 5552   Communicable and Degenerative Diseases
- COM 5025   Health Communication
- PHC 5410   Social and Behavioral Sciences in Public Health
- HSC 6135   Health Guidance and Cultural Competency
- HSC 6206   Health Delivery Systems
- HSC 6576   Nutrition Across the Life Cycle
- HSC 6905   Directed Study
- MAN 5116   Management of Diversity
- APK 6127C  Clinical Exercise Testing and Interpretation
- PHC 5355   Fundamentals of Occupational Safety and Health
- APK 6167C  Advanced Human Nutrition and Metabolism

Total Hours 39
Healthcare Administration

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

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

Admission Requirements

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

- Submission of one of the following graduate admission tests*:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA of 3.0 or higher
- Undergraduate major GPA of 3.0 or higher
- Submission of letter of intent describing the candidate’s work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Submission of three Letters of Recommendation
- Submission of a resume or CV

* The test requirement may be waived if one of these conditions is met:
- the applicant has a 3.5 GPA or higher
- the applicant has a 3.0 GPA and three years of relevant work experience in a healthcare organization that would normally require an bachelor’s degree
- the applicant holds a terminal degree (Ph.D., J.D., Ed.D etc.) or an advanced professional degree (M.S., M.A., etc.) from an accredited program

Healthcare Administration

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td>1.5</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6206</td>
<td>Health Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5438</td>
<td>Business Analysis and Decision Making in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6175</td>
<td>Healthcare Finance</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6425</td>
<td>Healthcare Law</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6197</td>
<td>Health Informatics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 40.5

Federal and state regulations, as well as most healthcare organization policies, require employees to undergo a background check before hire. Background checking is also required prior to placement in an internship. Please consider this when deciding on a major and career path.
History

The M.A. in History offers three specializations. The Program in Early American Studies is interdisciplinary, and offers either a thesis or research paper. The traditional history degree offers either a thesis or research paper. The Public History Specialization trains students in the various aspects of public (applied) history and requires completion of an internship.

Students in the master’s program may also earn a certificate in Historic Preservation. The certificate program in historic preservation requires the completion of 18 sh at the master’s level. It is geared towards individuals interested in acquiring a general focus in the field of historic preservation and current practitioners in the field who wish to add a historic preservation certification to their academic or professional credentials. Contact the department for information concerning the certificate.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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
- Minimum of two letters of recommendation

The department reserves the right to a personal interview to determine an applicant’s potential for graduate study. The department reserves the right to admit conditionally an applicant who meets most but not all of the above requirements. This is done upon the recommendation of the Graduate Committee and under the conditions set by that Committee and the Chair of the Department. A student admitted conditionally must complete all requirements of that admission, including the required “Foundational Proficiencies,” before starting the graduate program.

Program Requirements

The full-time graduate student should expect to spend a minimum of three semesters at UWF to earn a degree.

With the approval of the Department Chair and the Graduate Committee, a maximum of 6 sh of history graduate course work can be transferred from another institution or be taken while in a non-degree status at UWF. Such courses must be completed with a grade of “B” or better.

A student must earn at least a “B-” in each graduate course taken at UWF to receive credit for that course and an overall 3.0 GPA for all courses in the program. The thesis, research paper, or internship advisor will be appointed as the academic advisor. A student must complete graduate work within five years. A student may petition for an extension of the five-year rule if circumstances do not permit completion of the requirement. A student must take at least 18 sh of graduate course work at the 6000 level.

Language requirement: All Master's students in History, Public History, and Early American Studies are required to demonstrate reading competency in at least one language other than English. This requirement must be fulfilled prior to the completion of course work. Contact the department for additional information or requirements.

Early American Studies

The program in Early American Studies will provide students with the skills necessary to research and interpret Early American history from an interdisciplinary perspective. The program will provide students the means to understand early American history with an emphasis on understanding how different disciplines approach early American history. This specialization within the Department of History builds off of the strengths in the Department of History as well as those in the Departments of Government, English, Philosophy, and Anthropology.

The Program in Early American Studies is offered through on-site instruction. Video or online instruction will be available as technology allows. Geared toward history students interested in furthering their education for a Ph.D., it also prepares students for a teaching career in K-12, community-college, or working in an applied position such as with museums, libraries, governmental and non-governmental agencies, and publishing.

It is a 33-hour program with both a thesis and non-thesis option. The program is designed to fulfill the requirements for a master’s track in Early American Studies within a two year period.

A student must take 3 of the 4 required core courses (Colonial America, American Revolution, Early Republic, Transformations of America) as well as both Graduate Methods courses.

Foundational Proficiencies

An applicant must have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work will be required to correct the deficiency before taking graduate level courses. Students planning on further graduate study at the doctoral level should acquire proficiency in two languages or research tools.

Plan A

Plan A requires 33 semester hours of graduate course work, including 6 hours of thesis credit HIS 6971 Thesis. The student must write the thesis under the direction of a History faculty member and defend it in an oral examination before a thesis committee.

Plan B

Plan B requires 33 hours of graduate course work, including 3 hours of research seminar HIS 6911 Master’s Research. The student must have 6 hours of approved coursework outside of History toward degree requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 6116</td>
<td>Colonial America</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5059</td>
<td>Methods I: The Historian's Craft</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5063</td>
<td>Graduate Methods II: The Professional Historian</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6137</td>
<td>Revolutionary America</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6149</td>
<td>Transformations of America</td>
<td>3</td>
</tr>
</tbody>
</table>

Plan A choose 6 hours or Plan B choose 9 hours from the History electives listed below or from those approved by your advisor

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 6231</td>
<td>American History</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6232</td>
<td>United States History</td>
<td>3</td>
</tr>
<tr>
<td>AMH 6233</td>
<td>World History</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose 6 hours from approved outside courses listed below: 6
ANG 5137 Nautical Archaeology Seminar
ANG 5154 Spanish Florida in Anthropological Perspective
ANG 5157 Pre-Columbian Archaeology Seminar
ANG 5172 Historical Archaeology Seminar
ANG 5173 Historical Research Methods in Archaeology
ANG 6196 Policies, Practices and Archaeology in Historic Preservation
AML 6455 Topics in American Literature
POS 6045 Seminar in American Politics
POT 5207 American Political Thought

Plan A HIS 6971 (6 hours) or Plan B HIS6911 (3 hours) 3-6

Total Hours 33

History Specialization

The History Specialization is a traditional degree. Students may focus their course work in American or European history but in either track they will acquire knowledge and marketable skills that prepare them for a Ph.D. program in history; for a career teaching at the middle school, high school, or community-college level; or for careers 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 semester hours of upper-level history courses. Students accepted without the 15 semester hours 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 semester hours of graduate history course work, including the thesis. At least 12 semester hours must be in the major field (United States or European) and 6 semester hours 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 semester hours of graduate history course work distributed in the following manner:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>European History</td>
<td>9</td>
</tr>
<tr>
<td>United States History</td>
<td>9</td>
</tr>
<tr>
<td>HIS 6911 Master's Research</td>
<td>3</td>
</tr>
<tr>
<td>Take (2) History Electives</td>
<td>6</td>
</tr>
<tr>
<td>HIS 5059 Methods I: The Historian's Craft</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5063 Graduate Methods II: The Professional Historian</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 33

In the research seminar, the student must write a substantial research paper under the direction of a History faculty member.

The student may count one 3-semester hour 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 several 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-semester hour 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 semester hours of upper-level history courses. Students accepted without the 15 semester hours of prerequisite work will be required to correct the deficiency before taking graduate level courses.

Course Requirements

Public History Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 6055 Public History Methodology</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level European History elective</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5059 Methods I: The Historian's Craft</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5063 Graduate Methods II: The Professional Historian</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level American History elective</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5/6000 level Latin American/African/Asian/Ethnic elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

Internship

HIS 6056 Graduate History Practicum 6

Total Hours 6

Applied History/Non-History Electives

Choose two or three of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5084 Issues in Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5087 Advanced Museology</td>
<td>3</td>
</tr>
<tr>
<td>HIS 5515 History of Architecture</td>
<td>3</td>
</tr>
<tr>
<td>HIS 6083 Historic and Heritage Preservation Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Approved 5000/6000 Level Applied History Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one or two of the following: 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5137 Nautical Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 5172 Historical Archaeology Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>
ANG 5173  Historical Research Methods in Archaeology
ANG 5181  Geographic Information Systems in Archaeology
ANG 6196  Policies, Practices and Archaeology in Historic Preservation
ARH 5836  Museum and Gallery Studies
EVR 5413  Environmental Aspects of Urban Growth
EVR 5435  Urban Planning
EVR 5824  Environmental Impact Assessment
EVR 6930  Special Topics in Environmental Sciences
Approved 5000/6000 level outside elective

Total Hours 12

**Historic Preservation Certificate**

Department: History

Method of Instruction: Classroom

Semester Hours: 18

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

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

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11 of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal score of at least 150 and Quantitative of at least 145.
  - Miller Analogies Test (MAT)

- Minimum undergraduate cumulative GPA of 3.0

- Undergraduate degree major

- The applicant’s motivation for pursuit of a Master of Science in Information Technology degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Information Technology degree described in a letter of intent written by the applicant

- Indication of the applicant’s ability to succeed in our graduate program as reflected in three letters of recommendation

Cybersecurity and Database Management

Cybersecurity Specialization

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

**MSIT Core (12 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6379</td>
<td>Applied Information Security</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Cybersecurity Specialization (18 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CEN 6016</td>
<td>Software Engineering Process</td>
<td>3</td>
</tr>
<tr>
<td>CEN 6074</td>
<td>Software Assurance and Security</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6376</td>
<td>Database Security</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Database Management Specialization

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

**MSIT Core (12 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6379</td>
<td>Applied Information Security</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

**Database Management Specialization (18 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>Advisor Approved Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COT 6931</td>
<td>Computer Science Project</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

Network Operations, Performance and Security

The Network Operations, Performance and Security specialization of the Master of Science in Information Technology degree program encompasses three essential areas; information routing, efficiency and security. Students graduating from this program will be prepared to prevent and/or resolve under-performance in network systems and security breach incidents.

Students will complete 12 credit hours in the Information Technology Core and 18 hours of Network Operations, Performance and Security Specialization courses, including a two-semester, six-credit hour capstone experience that will provide students with hands on experience applying learned knowledge, skills and abilities in real-world settings.

**Program Prerequisite**

COP 2253 Programming Using Java (3 s.h.)

**Information Technology Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>COP 5007</td>
<td>Software Engineering Foundations: Java Programming</td>
<td>3</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
</tbody>
</table>
CIS 6379  Applied Information Security  3  

Total Hours  12

**Network Operations, Performance and Security Specialization**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 6790C</td>
<td>Network Infrastructure and Operations</td>
<td>3</td>
</tr>
<tr>
<td>CET 6882C</td>
<td>Network Performance Monitoring and Security</td>
<td>3</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>CIS 6376</td>
<td>Database Security</td>
<td>3</td>
</tr>
<tr>
<td>CET 6666</td>
<td>NOPS Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours  15
Instructional Design and Technology

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

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

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section 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)
- Undergraduate cumulative GPA of 3.0 or higher
- Submission of letter of intent that meets the following minimum requirements:
  - Describes the applicant’s academic and professional experiences
  - Describes the applicant’s career goals and reasons for pursuing the degree
  - Minimum of two pages in length
  - Free of spelling and grammatical errors
- Academic preparation

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

- Applicants must have an undergraduate GPA of 3.25 or higher from an accredited institution.

Degree Requirements

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

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

- Complete degree requirements of at least 36 semester hours compliant with the time-to-degree policy
- Be recommended for graduation by the Department of Instructional, Workforce and Applied Technology
- Complete all courses with a grade of B or better
- Successfully complete the Capstone Experience (EME 6946).

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

Instructional Design and Technology

Instructional Technology Core (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6054</td>
<td>Foundations of Instructional Technology</td>
<td>3</td>
</tr>
<tr>
<td>EME 6062</td>
<td>Applied Instructional Technology Investigations</td>
<td>3</td>
</tr>
<tr>
<td>EME 6607</td>
<td>Implementation of Instructional Technology Projects</td>
<td>3</td>
</tr>
<tr>
<td>EME 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 6678</td>
<td>Theoretical Foundations of Instructional Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 15

Concentration Area (Minimum 12 sh)

Students will select one of the following concentration areas:

Distance Learning

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6409</td>
<td>Distance Learning Implementation</td>
<td>3</td>
</tr>
<tr>
<td>EME 6414C</td>
<td>Web-Based Instructional Tools for Educators</td>
<td>3</td>
</tr>
<tr>
<td>EME 6415</td>
<td>Digital Video for Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EME 6458</td>
<td>Distance Learning Policy and Planning</td>
<td>3</td>
</tr>
</tbody>
</table>

Human Performance Technology

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

Electives (6 sh)

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

Capstone Experience (3 sh)

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 6946</td>
<td>Instructional Design and Technology Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Technology Leadership Specialization

The Technology Leadership Specialization provides students with a strong foundation in technology and leadership while incorporating a highly flexible elective component, allowing students to select individual courses and/or certificate programs aligned with their particular areas of interest and professional goals. Students should work closely with their advisers when developing their program plans.
**Instructional Technology Core (15 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 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>Implementation of Instructional Technology Projects</td>
<td>3</td>
</tr>
<tr>
<td>EME 6609</td>
<td>Principles of Instructional Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 6678</td>
<td>Theoretical Foundations of Instructional Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

**Electives (18 sh)**

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

**Capstone (3 sh)**

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

EME 6946 Instructional Design and Technology Capstone

**Human Performance Technology Certificate**

Department: Instructional Design and Technology (IDT)

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

Total Hours: 12
Mathematics

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

Attendance Requirement for Online Students

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

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

If an applicant has a B.S. in mathematics or a related field:

• Minimum Graduate Record Examination (GRE) Verbal score of at least 150 and Quantitative score of at least 150 or equivalent GRE percentile performance under the previous testing platform*.

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

• Must have a B.S. or B.A. degree in mathematical sciences with at least a 3.0 GPA.

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

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

• The student will be admitted if the student has all required undergraduate proficiency courses.

• The student will be admitted provisionally subject to completing the required undergraduate proficiency courses.

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

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

Foundational Proficiencies

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

Choose one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAA 4212</td>
<td>Advanced Topics in Multi-Variable Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MAD 4401</td>
<td>Numerical Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 13

Degree Requirements

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

Each student must complete a minimum of 30 sh of approved course work. For the degree with thesis, 6 sh of 6000-level credit will be awarded for the thesis. For the degree without thesis, a proseminar (1 sh) or two-semester research courses (6 sh) are required, in which the candidate will investigate topics in mathematics or statistics. The proseminar will require the candidate to make an oral presentation of the research.

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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS 5145</td>
<td>Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>STA 5326</td>
<td>Statistical Inference</td>
<td>3</td>
</tr>
<tr>
<td>Advisor approved 5/6000-level courses*</td>
<td>18-24</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 24-30

Tracks

Students will choose one track.

Thesis Track

Choose one of the following: 6

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

Total Hours 6

Non-Thesis Track

Choose one of the following: 6-7

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</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>Advisor approved 5/6000-level courses</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STA 6912</td>
<td>Statistics Research 1</td>
<td>3</td>
</tr>
<tr>
<td>STA 6913</td>
<td>Statistics Research 2</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAT 6903</td>
<td>Mathematics Research 1</td>
<td>3</td>
</tr>
<tr>
<td>MAT 6904</td>
<td>Mathematics Research 2</td>
<td>3</td>
</tr>
</tbody>
</table>

*Other Requirements

Students completing a thesis or a research course sequence will take an additional 18 sh of math/stat graduate courses approved by the department while non-thesis students taking the proseminar will take an additional 24 sh of math/stat graduate courses approved by the department. A minimum of 15 sh must be at the 6000 level.

Total Hours 18-24
Certificates

Data Science Certificate

<table>
<thead>
<tr>
<th>Building</th>
<th>Phone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science - Bldg 4/223</td>
<td>850-474-3241</td>
<td><a href="http://uwf.edu/computerscience">http://uwf.edu/computerscience</a></td>
<td><a href="mailto:computerscience@uwf.edu">computerscience@uwf.edu</a></td>
</tr>
<tr>
<td>Mathematics - Bldg 4/223</td>
<td>850-474-2276</td>
<td><a href="http://uwf.edu/mathstat">http://uwf.edu/mathstat</a></td>
<td><a href="mailto:mathstat@uwf.edu">mathstat@uwf.edu</a></td>
</tr>
</tbody>
</table>

Method of Instruction: **Online**

Semester Hours: 15

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

**Admission Requirements:**

Participants must have a B.S. degree in computer science, the mathematical sciences, or a related field with a grade point average of 3.0 or higher. Students will be non-degree seeking, and hence will not require the GRE.

**Program Requirements:**

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

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

Total Hours 15

Students are expected to complete the program in, at most, 3 semesters.
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 Nurse Executive prepares students for employment in an administrative/management and leadership positions in the health care industry.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

• An earned Bachelor of Science in Nursing degree from an NLNAC, ACEN, or CCNE accredited nursing program with a minimum overall grade point average of 3.0 on a 4.0 scale OR a 3.0 (GPA) on a 4.0 scale in the last 60 hours of coursework on the BSN.
• Completion of an undergraduate statistics course with a grade of "C" or better.
• Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
• Possess a current unencumbered Registered Nurse license to practice nursing in a state or territory of the United States.
• Express Admission Students are required to become licensed as a registered nurse to practice in a state or territory of the United States by the end of the first semester of enrollment to progress in the program.
• Curriculum vitae (CV) or resume.
• Approval by the School of Nursing Graduate Admissions Committee. Admission to this program is competitive and selective.

* The graduate admission test may be waived for the following:
  • Applicant must have earned a Bachelor of Science in Nursing (BSN) from a NLN or CCNE accredited nursing program with a minimum overall grade point average (GPA) of 3.0 on a 4.0 scale OR a 3.0 (GPA) on a 4.0 scale in the last 60 hours of coursework on the BSN.

If an applicant is unable to meet the above criteria, they may petition the Nursing Department Graduate Admissions Committee and request a special review.

Please note that upon admission the M.S.N. student will receive information concerning current UWF Nursing Department requirements for enrollment. These include, but are not limited to: physical examination and immunizations; Level 2 criminal background check; drug screen; VEHCS fingerprinting; AHA BCLS certification; proof of professional liability insurance; and proof of personal health insurance.

Degree Requirements

Students wishing to earn a M.S.N. must successfully complete both the core courses and the specialty courses. No more than 49% of the program requirements for the M.S.N. degree may be taken in traditional business subjects.

M.S.N. Core (14 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6111</td>
<td>Foundations of Nursing Science</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6638</td>
<td>Population Health Promotion and Management</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6803</td>
<td>Integration of Evidence in Advanced Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6893</td>
<td>Health Systems Leadership and Policy Strategies</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6835</td>
<td>Project Evaluation and Dissemination</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Hours 14

Nurse Executive Specialization (25 sh)

See Program Requirements

Education Specialization

See Program Requirements

Education Specialization (25 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6728</td>
<td>Nurse Executive Seminar I</td>
<td>2</td>
</tr>
<tr>
<td>NGR 6728L</td>
<td>Nurse Executive Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>NGR 6729</td>
<td>Nurse Executive Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6729L</td>
<td>Nurse Executive Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6727</td>
<td>Nurse Executive Seminar III</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6727L</td>
<td>Nurse Executive Practicum III</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 25
Political Science

The M.A. program is designed for students interested in acquiring a broad view of political science or who wish to specialize in international relations. The program consists of 33 semester hours plus successful completion of a comprehensive examination or a thesis. There are two tracks to choose from: generalist, and security and diplomacy. The generalist track is primarily for students who wish to have a broad view of the discipline, either to satisfy their own curiosity or as a means to pursue careers in the media, education, or the private sector. The security and diplomacy track is designed for students considering or presently pursuing a military or national security career. Requirements for each track are specified below. All new students should be advised by the department chair. In addition to the university requirement that students maintain a cumulative GPA of 3.0 or higher, students must also make a 3.0 or higher GPA in each core course.

Tracks, options, and concentrations are an informal designation used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript and diploma.

Online M.A. in Political Science

The Department of Government now offers a fully online program for the M.A. in Political Science. It is available for distance learners who live outside of Escambia and Santa Rosa counties in Florida. Exceptions to this policy are rare; however, extenuating circumstances should be addressed to the department chair. Note this is a synchronous course delivery program, meaning that students are required to attend live lectures via the University's online video conferencing system for courses. 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. The live sessions are held for the evening core seminars. The approved department electives are made available via recordings.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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 sample research paper

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

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

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

Degree Requirements

Political Science Core (18 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 6006</td>
<td>Seminar in Comparative Politics</td>
<td>3</td>
</tr>
<tr>
<td>INR 6007</td>
<td>Seminar in International Relations</td>
<td>3</td>
</tr>
<tr>
<td>POS 6006</td>
<td>The Study of Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6045</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6704</td>
<td>Political Science Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>POT 5016</td>
<td>Seminar in Political Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

Tracks

Generalist Track (15 sh)

This track allows students to take 15 sh of elective credit, of which 6 sh may be earned by writing and successfully defending a thesis. Note: In order to be eligible for the thesis option, students are required to maintain a 3.5 or higher GPA. A match between faculty expertise of a thesis director and intended thesis topic is necessary, in addition to thesis director and chair approval to pursue a thesis. The generalist track is primarily for students who wish to obtain a broad view of the discipline, possibly as a means to pursue careers in the government, the media, education, or the private sector. Non-thesis students take 15 sh of electives, of which 6 sh may be taken outside of the discipline. Non-political science credits require prior approval of the department chair. Completion of the degree requires a successful comprehensive exam or thesis defense.

<table>
<thead>
<tr>
<th>Option</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisor-approved comprehensive examination</td>
<td>0</td>
</tr>
<tr>
<td>Advisor-approved thesis option</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours 15

Security and Diplomacy Track (15 sh)

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

Chair and Advisor-approved comprehensive examination 0

Total Hours 15

Thesis Option

Students may choose to complete a thesis in lieu of completing 6 sh of electives

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

Total Hours 0-6
Psychology

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

Admission Requirements

Applications for admission for summer and fall semesters are due on the preceding February 1st. This application is for the Department of Psychology only, and supersedes all other published deadlines. Files completed after the published deadline may not be reviewed in time to enroll in the desired semester.

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the school bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

• Graduate Record Examination (GRE) Verbal and Quantitative score
• Undergraduate cumulative GPA
• Psychology undergraduate GPA
• Grades received in undergraduate major coursework
• Submission of letter of intent
• Submission of three letters of reference
• Program prerequisites
• Field experience or skill sets
• Oral Interview, if applying to the Counseling specialization

Applicants can assume that their files are incomplete until they receive a notice from the Department of Psychology indicating that files are complete.

The following are the minimum admission requirements:

• A bachelor’s degree in psychology (preferably) or a bachelor’s degree with the completion of at least general/introductory psychology, psychology research methods sequence, three semester hours of statistics, and a psychology course in the area of intended 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 (p. ) 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, 60 sh for the Counseling-Licensed Mental Health Counselor Specialization) with at least a 3.0 GPA and with these stipulations:

• Only with approval of the advisor and department chairperson may courses outside the Psychology Department (except required courses) be taken toward the total sh requirement.

• All students must complete PSY 6217 Research Design in Psychology; EXP 5735 Experimental and Correlational Statistics for Psychology or STA 5166 Special Topics in Statistics or an advisor approved elective and at least one course from each of the four core areas.

All graduate students must receive a B- or higher in all graduate coursework. If a student receives a C+ or lower in a psychology graduate course, they must repeat the course or an equivalent approved by the Department Chair.

With the advisor’s approval, a student may apply a maximum of 6 sh of graduate work taken at another University toward the degree. With the approval of the department chairperson, a maximum of 10 sh of transfer credit may be accepted toward the degree.

All master’s work must have been taken within six years preceding completion of the degree requirements or the student will be required to retake any expired course work.

In order to switch tracks, students must meet with the program coordinator of both tracks. Students must also submit a new letter of intent describing their career goals and how the track will help them in their pursuit of these goals. Students will be re-evaluated for the new track based on their current class performance and new letter of intent.

Students who receive approval to switch tracks must meet with an advisor from the new track to review degree requirements. Students may apply for a track change only once.

Psychology Graduate Core (18 sh)

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

Biological Bases of Behavior Core-choose one of the following:
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
- PSY 6953 Research Capstone 1 3
- PSY 6954 Research Capstone II 3

* PCO 6948 Internship in Counseling for counseling students only

PSY 6953 Research Capstone 1 and PSY 6954 Research Capstone II for Applied Experimental students only

A maximum of 6 sh of supervised research, thesis, or internship credit may be counted toward the total sh degree requirement.

Consistent with the University’s Continuous Enrollment Policy for Thesis Students, students registered for thesis, supervised research (TeRP) or internship must be continuously enrolled at UWF (not including summer) after they have registered for their first capstone credit hour. A student may satisfy the intent of continuous registration by registering for thesis credits, supervised research, internship, or graduate coursework. Students who fail to do so will receive a warning letter from the Department of Psychology Chair suggesting that they may be removed from the program or required to start their Capstone project over.

Once a student has registered for six hours of thesis, supervised research (TeRP), or internship, that student must show continued satisfactory progress. After the first semester (following the completion of six hours) students are enrolled, any students who fail to make satisfactory progress will receive a warning from their advisor stating that they must show satisfactory progress in the next semester or potentially be removed from the program. These students must also meet with their committee to discuss how they plan to complete the project if allowed to remain in the program. Following a second semester in which students fail to make progress, a letter will be sent to those students by the Department of Psychology Chair. This letter will detail the milestones that MUST be met by the end of that semester. If the student fails to meet the milestones (as judged by the student’s committee) after the third semester, then those students will receive the grade of “U” and will not be permitted to continue in the program. Students may petition for a waiver under extraordinary circumstances such as health issues or other life crisis.

Students doing an internship are required to submit a portfolio and/or paper, depending on the specialization, as described in the Psychology Graduate Student Handbook. Upon completion of the thesis or internship, the student must present an oral defense to a master’s committee of at least two psychology faculty members.

The Supervised Research integrative experience is the Terminal Research Project (TeRP). This can be accomplished by students completing 6 sh of PSY 6917 Supervised Research. This option allows students to design and complete an independent empirical study under the supervision of a two member faculty supervisory committee with the committee head being a tenure track faculty member from the Department of Psychology. The terminal experience for students who choose this option will consist of three elements:

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

Applied Experimental Psychology Concentration

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

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

In addition to the 24 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior and Capstone), Applied Experimental students must complete the following:
**Concentration (6 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP 5208</td>
<td>Advanced Sensation and Perception</td>
<td>3</td>
</tr>
<tr>
<td>PSB 5035</td>
<td>Cognitive Neuroscience</td>
<td></td>
</tr>
<tr>
<td>EXP 6085</td>
<td>Seminar in Applied Psychological Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 6

* These AEP concentration courses also meet the Psychology Biological Bases Core requirement

**Recommended Electives (6 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP 5256</td>
<td>Human Factors Psychology</td>
<td>3</td>
</tr>
<tr>
<td>advisor approved elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

---

**Counseling Psychology-Licensed Mental Health Counselor**

The Licensed Mental Health Counselor option is a 60 sh program with requirements comparable to the requirements established by the Florida state board for licensure as a Mental Health Counselor. Attainment of the degree does not entail conferral of the license, which is governed by the state licensing board. This degree option focuses on meeting current licensure requirements, preparing the graduate for a career as a licensed mental health counselor, and requires completion of specialty coursework and a total of 1000 hours (9 sh) of practicum/internship field placement in a mental health setting. Upon graduation from the licensure option, the individual should be in a position to qualify to register with the state licensing board as an intern and to obtain the two year post-degree supervised experience required by the board for licensure.

In addition to the 18 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior - I/O students take PCO 6216 Theories of Individual Counseling to meet Individual Bases of Behavior portion of the core and PCO6278 Multicultural Counseling to meet the Social Bases of Behavior portion of the core), Licensed Mental Health Counseling students must complete the following:

**Concentration (15 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCO 6315</td>
<td>Assessment in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CLP 5166</td>
<td>Psychopathology</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6246</td>
<td>Theories of Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6206C</td>
<td>Ethical and Professional Issues in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6204</td>
<td>Pre-Practicum: Techniques of Counseling and Psychotherapy</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

**Application (9 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCO 6946</td>
<td>Practicum in Counseling</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6948</td>
<td>Internship in Counseling</td>
<td>1-6</td>
</tr>
</tbody>
</table>

Total Hours: 4-9

**Elective (3 sh)**

**Licensure Courses (15 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP 5055</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOP 6776</td>
<td>Human Sexuality and Sex Therapy</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6345</td>
<td>Educational and Vocational Guidance</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6312</td>
<td>Substance Abuse Counseling</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

**Industrial-Organizational Psychology Concentration**

The 42 sh Industrial-Organizational (I/O) concentration combines traditional personnel psychology (selection, performance appraisal, test construction and validation, fair employment practices, and legal issues) with the more interpersonal emphasis of organizational psychology (motivation, job satisfaction, leadership, interpersonal communication, organizational diagnosis, and change). The curriculum meets the needs of students who plan to be employed at the master’s level in organizational settings as well as those who wish to pursue a doctoral program in a related field at another University.

In addition to the 24 hours of core requirements (Research Design, Graduate Statistics, Four Bases of Behavior - I/O students take EXP5256 Human Factors to meet the Biological Bases portion of the core, SOP6669 Advanced Organizational Psychology to meet the Social Bases portion of the core, INP6325 Training and Development to meet the Acquired Bases portion of the core, and INP6216 Personnel Selection and Appraisal to meet Individual Bases of Behavior portion of the core, and Capstone), I/O students must complete the following:

**Concentration (9 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INP 5131</td>
<td>Legal Issues in Industrial/Organizational Psychology</td>
<td>3</td>
</tr>
<tr>
<td>INP 6385</td>
<td>Group Dynamics in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SOP 6668</td>
<td>Organizational Change and Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 9

**Electives (9 sh)**

Students must complete at least 9 semester hours of elective courses relevant to I/O and chosen in consultation with the advisor. Recommended electives include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5705</td>
<td>Advanced Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td>EAB 5738</td>
<td>Behavioral Medicine</td>
<td>3</td>
</tr>
<tr>
<td>INP 6944</td>
<td>Practicum in Industrial Psychology</td>
<td>1-3</td>
</tr>
<tr>
<td>PSB 5035</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>SOP 6069</td>
<td>Advanced Social Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional statistics, or courses in Organizational Development (OD) offered in collaboration with the Management Department. No more than 49% of the program requirements for the M. A. in Psychology degree may be taken in traditional business subjects.

**Health Psychology Certificate**

Department: Psychology

Method of Instruction: Classroom

Semester Hours (completed during the course of and/or in addition to degree requirements): 21

Health is broadly conceptualized as physical, psychological, emotional, social, and spiritual well-being. The health psychology certificate at UWF recognizes the interacting roles of body, mind, and spirit in health. The curriculum of the health psychology certificate balances Eastern and Western approaches to health, with an emphasis on the contributions of the field of psychology.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5738</td>
<td>Behavioral Medicine</td>
<td>3</td>
</tr>
<tr>
<td>CLP 4314</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSB 5035</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>EAB 5705</td>
<td>Advanced Behavior Modification</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Two of the following:</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td>PCO 6312</td>
<td>Substance Abuse Counseling</td>
<td></td>
</tr>
<tr>
<td>PSY 4832</td>
<td>Sport and Exercise Psychology</td>
<td></td>
</tr>
<tr>
<td>ISC 5517</td>
<td>Buddhist Psychology</td>
<td></td>
</tr>
<tr>
<td>ISC 5517L</td>
<td>Buddhist Psychology Lab</td>
<td></td>
</tr>
<tr>
<td>CYP 6005</td>
<td>Community Psychology</td>
<td></td>
</tr>
<tr>
<td>EXP 5256</td>
<td>Human Factors Psychology</td>
<td></td>
</tr>
<tr>
<td>PSY 5016</td>
<td>Conjunctive Psychology</td>
<td></td>
</tr>
<tr>
<td>PSY 5016L</td>
<td>Conjunctive Psychology Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>One of the following:</strong></td>
<td><strong>3</strong></td>
</tr>
<tr>
<td>HSA 5115</td>
<td>Health Care Policy and Administration</td>
<td></td>
</tr>
<tr>
<td>HSC 5506</td>
<td>Advanced Epidemiology</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>
Public Health

The Master of Public Health provides students with a high quality, multidisciplinary perspective on public health and prepares them to be public health professionals. The M.P.H. degree is the most widely recognized professional credential for leadership in public health. The Master of Public Health offers three concentrations in Generalist MPH, Global Health (GHLH), and Health Promotion, and Education and Behavior (HPEB). The current Generalist MPH is intended for students who want a broad and general training. The MPH in Global Health is intended for professionals who desire a career in international health and development as well as global health monitoring and evaluation. The Health Promotion, Education and Behavior concentration targets students interested in health promotion and behavior change and CHES certification. All MPH students complete the five foundational core courses in environmental health, epidemiology, social and behavioral sciences, biostatistics, and public health policy, providing them with foundational knowledge related to the principles, theory, and practice of public health, in addition to other required and elective courses within the chosen concentration. 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 or healthcare community. The required and elective courses offer students the opportunity to tailor their degree to best fit their career goals in public health. Public Health is a broad field that is open to students from diverse academic disciplines including health sciences, education, business, social and natural sciences, and others. This is a fully online program.

The M.P.H. Program is allied with several academic programs within the College of Health to broaden the educational opportunities available to students in the program, including certificates in Medical Informatics, 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 population 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. Internship Committee. The UWF M.P.H. Program is accredited by the Council on Education for Public Health (http://uwf.edu/coh/departments/public-health). The current Generalist MPH, Global Health (GHLH), and Health Promotion, and Education and Behavior (HPEB). The credit earned in this course does not count toward the graduate degree.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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 degree from a regionally accredited or recognized University
- Applicants must have an undergraduate GPA of 3.0 or above on a 4.0 scale from an accredited US institution or recognized international institution.
- Graduate Record Examination (GRE) will be required for students with GPA below 3.20 as follows:
  - GRE minimum scores: Verbal: 150; Quantitative: 146
  - GRE must have been taken in the last five years to be considered for admission.
  - Submission of official GRE test scores (Under some circumstances the GMAT will be accepted); For students currently enrolled in a doctoral program in the public health or health professions the respective admission test scores may be accepted.
  - Applicants with an MBBS or equivalent foreign medical degree must submit a course-by-course evaluation report from an acceptable credential evaluation agency to be eligible for the GRE waiver
  - A Statement of Purpose (500-1000 words) that conveys the applicant’s reasons for pursuing graduate study in public health and how admission into the program relates to the applicant’s professional aspirations
  - Submission of one personal writing sample (e.g., written reports completed by the applicant or other representative samples of professional writing skills)
  - Submission of three letters of support recommendation

Applicants with terminal degrees (Ph.D. or Ed.D.) or advanced professional degrees (M.D., D.D.S., D.V.M., J.D., D.O., M.S., M.A., etc.) from accredited programs and licensed in the United States may request to waive the graduate admission test requirement but must complete the other admission requirements.

Applicants with insufficient training in statistics or those who have taken a statistics course more than seven years ago may be admitted conditionally pending demonstration of proficiency in statistics within the first year in the program by taking and passing STA 2023 Elements of Statistics or equivalent prior to enrolling in PHC 5050: Biostatistics for Public Health. This is required for students with no background in statistics (e.g., a student who has never taken a course in statistics at the college level). The credit earned in this course does not count toward the graduate degree.

If a student is an international applicant whose native language is not English or the student is from a country in which the primary language is not English, he or she must take an acceptable English proficiency test before applying for admission. Applicants to the University of West Florida are considered international students if they are not U.S. Citizens, dual citizens, or permanent residents. All such students should refer to the International Graduate Admission (p. 14) 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 http://uwf.edu/coh/departments/public-health/ for additional information. All students are required to satisfactorily complete a supervised Public Health Internship (total of 6 semester hours) 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. 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 includes Student Learning Outcomes (http://uwf.edu/offices/aspire/sloassessment/usah-kundu-md-college-of-health). Some exams in this program may require proctoring at testing sites approved by the course instructor.

The Department of Public Health offers M.P.H. concentrations in Generalist M.P.H. Professional, Global Health (M.P.H. - GHLH), and Health Promotion, Education, and Behavior (M.P.H. - HPEB).

**Generalist M.P.H. Professional**

The Generalist M.P.H. is intended for students and working professionals who desire a broad and general training in public health and population health science practice, including translational research. Our students include experienced clinicians from a broad range of health fields, including medicine, dentistry, nursing, social work, and other related fields. We train students to assume leadership roles as members of multidisciplinary public health teams.

**Global Health (GHLH)**

The M.P.H. in Global Health concentration is designed for public health students and professionals in low-to-middle income countries working in leadership positions, program implementation, monitoring and evaluation, and disease prevention and control. The proposed track is designed to respond to the unique workforce needs across different regions of the world. The program builds on the Core Public Health competencies (epidemiology, social and behavioral sciences, health policy, environmental health, and biostatistics) and a suite of other required courses relevant to global health practice including program implementation, monitoring, and evaluation, leadership and communication.

**Health Promotion, Education, and Behavior (HPEB)**

The Health Promotion, Education, and Behavior concentration is geared towards students interested in health promotion and behavior change and includes certification through the Certified Health Education Specialist (CHES) exam. This concentration exposes students to current and emerging theories in social determinants of health and behavior working with diverse populations on a variety of health topics at nonprofit organizations as well as government agencies.

**Generalist MPH**

**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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5410</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6000</td>
<td>Epidemiology for Public Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6300</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5050</td>
<td>Biostatistics for Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6150</td>
<td>Public Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6946</td>
<td>Internship in Public Health I</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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5123</td>
<td>Biological Basis of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Research Designs and Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Applied Data Analysis 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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5442</td>
<td>Global 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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5102</td>
<td>Principles of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5856</td>
<td>Bioterrorism</td>
<td>3</td>
</tr>
<tr>
<td>MCB 5273</td>
<td>Epidemiology of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6310</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6005</td>
<td>Disease Transmission in the Urban Environment</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Strategies for Prevention of Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5205</td>
<td>Public Health Preparedness</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6425</td>
<td>Healthcare Law</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5442</td>
<td>Global 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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Bioinformatics and Data Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6436</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></td>
</tr>
</tbody>
</table>

Choose one of the following:

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

**MPH in Global Health (GHLH)**

The MPH in Global Health concentration is designed for students and professionals interested in global health practice or working in various roles in population based health for health promotion, disease prevention and control including program implementation, monitoring, and evaluation; and health program entrepreneurship. The
concentration is designed to respond to the unique workforce needs across different regions of the world. The program builds on the core public health foundational sciences and competencies from epidemiology, social and behavioral sciences, health policy, environmental health, and biostatistics, and a suite of required courses relevant to global health practice, program implementation, monitoring and evaluation, leadership and communication for sustainable development.

**Foundational Core Courses:** All students seeking a Master of Public Health degree successfully complete ALL Foundational courses of the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5410</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6000</td>
<td>Epidemiology for Public Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6150</td>
<td>Public Health Policy</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><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**MPH Global Health Concentration courses.** All students seeking the MPH in Global Health must take the following required concentration courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5102</td>
<td>Principles of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5108</td>
<td>Monitoring and Evaluation in Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5123</td>
<td>Biological Basis of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5442</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6003</td>
<td>Chronic Diseases Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Applied Data Analysis in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Prevention of Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>21</strong></td>
</tr>
</tbody>
</table>

**MPH Culminating Experience.** All students are required to complete the 6-hour culminating project.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6945</td>
<td>Internship in Public Health I</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6946</td>
<td>Internship in Public Health II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**MPH in Health Education, Promotion and Behavior (HPEB)**

**Description:**

The MPH in Health Education, Promotion and Behavior offered by the Department of Public Health prepares students as professional health educators based on a curriculum that concentrates on the responsibilities and competencies developed by the national Commission for Health Education Credentialing (NCHEC). This professional preparation is designed to support students to become dynamic public health professionals with the skills to conduct needs assessment, implement, manage, and evaluate health promotion and education programs for the populations health for prevention and health promotion through behavior change. At present, eligibility for the CHES/MCHES examination is based on possession of a degree and/or academic preparation related to health education curricula that address the Seven Areas of Responsibility of Health Educators. However, accreditation of programs offering degrees in Health Education/Health Promotion is currently underway with the Council on Education for Public Health (CEPH) identified as the accrediting entity to provide a single coordinated accreditation mechanism for community/public health education/health promotion programs at the undergraduate and graduate levels. This transition will require students to graduate from an accredited program to be eligible to sit for the CHES/MCHES exam.

**Curriculum**

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

**MPH Required Courses (15 semester hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5410</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5050</td>
<td>Biostatistics for 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 6150</td>
<td>Public Health Policy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**HPEB Required Courses (18 semester hours)**

All students seeking an MPH in Health Promotion, Education and Behavior must take the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5102</td>
<td>Principles of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Research Designs and Methods</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6037</td>
<td>Philosophical Foundations of Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6587</td>
<td>Health Education Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6666</td>
<td>Health Education and Interactive Technology</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6667</td>
<td>Social Marketing in Health Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Public Health Practicum and Culminating Experience**

All students seeking a Master of Public Health degree must successfully complete 6 hours in the practicum and culminating experience.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6945</td>
<td>Internship in Public Health I</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6946</td>
<td>Internship in Public Health II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

**Electives: [ 3 credit hours]**

To be selected following consultation with your academic advisor:

Choose one of the following:

- PHC 5442  Global Health
- HSA 6521  Critical Analysis of Health
- HSC 6135  Health Guidance and Cultural Competency
Public Health/Emergency Management (HEM) Certificate

Department: Public health, Clinical and Health Sciences
Method of Instruction: Online
Semester Hours: 9

Students will gain an understanding of disasters and their consequences with a focus on the role of the public health response. The principles of disaster planning, prevention, mitigation as well as the structure and organization of disaster response will be covered. Risk assessment, raid health assessment, and surveillance will be covered. Topics include mental health issues, environmental services, ethical and legal issues, evaluation methods for assessing the mental and public health response, as well as discussion of complex humanitarian emergencies.

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

Public Health/Infection Control (CIC) Certificate

Department: Public health, Clinical and Health Sciences
Method of Instruction: Online
Semester Hours: 12

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

Choose four of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 5856</td>
<td>Bioterrorism</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Prevention of Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>MCB 5273</td>
<td>Epidemiology of Infectious Disease</td>
<td></td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>
Reading Education

The Reading Education Master's Degree is an innovative, educational program that links literacy research to practical classroom practices. This 36-semester hour program is offered online, nationwide as an advanced degree program for credentialed teachers. The curriculum for the program is based on the International Reading Association standards which also encompass the Florida Department of Education Reading Endorsement and certification requirements. This advanced program requires several field experiences which may be arranged through the Department of Teacher Education and Educational Leadership Graduate Advising Office. Upon program completion, candidates are encouraged to add the Reading Endorsement/ Certification to their teaching certificate. The program is approved for both the K-12 Reading Endorsement and K-12 Reading Certification by the Florida Department of Education. Reading is a critical shortage area in the state of Florida. The program is part of the NCATE accredited Professional Education Unit.

The M.Ed. in Reading Education is designed to prepare educators as reading teachers, reading coaches, district-level literacy specialists, and publishing industry consultants. New cohorts are admitted in the summer and fall of each year. The application deadline for summer admission is March 1. The application deadline for fall admission is June 1.

Based on the International Reading Association's Standards for Reading Professionals, this program integrates course work and clinical experiences to prepare graduates in the following areas:

- Foundations of reading and writing processes and instruction
- Instructional practices, approaches, methods, and curriculum materials to support reading and writing instruction
- Assessment tools and practices to plan and evaluate effective reading instruction
- Integration of foundational knowledge, use of instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) of the catalog, the applicant must meet the following minimum departmental admission requirements for provisional admission:

- Hold professional teaching certification
- Have earned a GPA of at least 3.0 on bachelor's degree*
- Submit a current (within five years) official Graduate Record Exam (GRE) verbal score or Miller Analogies Test (MAT) score**
- Submit a letter of intent that includes the following information: your background, short- and long-term goals, contributions you would like to make to your field of study, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references
- Demonstrate proficiency in ESOL via completion of an ESOL survey course or district in-service points
- Demonstrate proficiency of the Additional Elements of the Florida Uniform Core Curriculum (UCC)

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

- Purchase and activation of a subscription to the Department's assessment system, Tk20, within the first week of the first semester
- Completion of the Professional Education Applicant Disposition Scale by each person identified as a professional reference
- Completion of the Professional Education Applicant Disposition Self-rating Scale within Tk20
- Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program.

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

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

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

Department of Teacher Education and Educational Leadership students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies.

Degree Requirements

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAE 5345</td>
<td>Methods of Advanced Language Arts and Writing</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 Literacy Development</td>
<td>3</td>
</tr>
<tr>
<td>RED 6240</td>
<td>Differentiating Instruction</td>
<td>3</td>
</tr>
<tr>
<td>RED 6546</td>
<td>Identifying and Preventing Reading Difficulties</td>
<td>3</td>
</tr>
<tr>
<td>RED 6747</td>
<td>Research and Trends in Reading</td>
<td>3</td>
</tr>
<tr>
<td>RED 6866</td>
<td>Reading Practicum</td>
<td>3</td>
</tr>
<tr>
<td>RED 6701</td>
<td>The Organization and Administration of Literacy Programs</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Action Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 36

Students must also successfully pass Florida Teacher Certification Examinations:

- General Knowledge
- Professional
- Subject Area
- Reading
The Master of Social Work (M.S.W.) program prepares graduates to work with individuals, families, groups, communities, and organizations within medical and behavioral health settings, with a special focus on military populations. The Master of Social Work program at UWF develops advanced practitioners who can demonstrate clinical and critical thinking skills necessary to assist clients in a broad range of dilemmas and settings. Guided by a diverse faculty, the department is committed to promoting human rights, social and economic justice, and respect for diversity to improve the lives of the individuals and communities we serve.

The M.S.W. program at the University of West Florida is a clinical program that is accredited by the Council on Social Work Education. The UWF M.S.W. program is designed to meet the needs of students who wish to pursue a clinical social work license in the state of Florida.

The Department of Social work has two different options for earning the M.S.W. graduate degree. The Traditional M.S.W. program involves completion of 60 semester hours of graduate coursework and is intended for students who have earned an undergraduate degree in a field other than social work. The Advanced Standing M.S.W. program requires 30 semester hours of graduate coursework and is intended for students who have obtained a baccalaureate degree in social work from a CSWE accredited program within seven years of application. All coursework should be completed within a maximum of four years.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 11) 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:

University Requirements

- Submission of graduate application and processing fee
- Official transcripts
- International students may have additional requirements

Departmental Requirements

- Submission of one of the following graduate admission tests: Graduate Record Examination (GRE) Verbal and Quantitative score or Miller Analogies Test (MAT)
- Minimum undergraduate cumulative GPA of 3.0
- Academic preparation as demonstrated by quality and relevance of undergraduate degree major
- Submission of three letters of recommendation from individuals familiar with the applicant’s ability to succeed in a graduate program (Advanced Standing applicants must include one recommendation form from a supervisor who provided supervision during their undergraduate field experience)
- Submission of the MSW Criminal History Form (https://uwf.edu/media/university-of-west-florida/colleges/ceps/departments/social-work/msw-criminal-history.pdf)
- Professional resume

Tk20

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

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

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, two electives (6 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

Tk20

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

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

Foundation Curriculum (30 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 5105</td>
<td>Human Behavior in the Social Environment I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5106</td>
<td>Human Behavior in the Social Environment II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5218</td>
<td>Analysis of Social Service Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5305</td>
<td>Generalist Practice I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5324</td>
<td>Generalist Practice II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5404</td>
<td>MSW Research Foundations</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5532</td>
<td>Foundation Year Field Instruction and Integrative Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>SOW 5629</td>
<td>MSW Human Diversity and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5757</td>
<td>The History, Philosophy, and Theory of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>Elective in Advanced Clinical Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>30</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Concentration Curriculum (30 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6618</td>
<td>Clinical Practice I: Treatment of Individuals</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6125</td>
<td>Psychopathology for Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6535</td>
<td>Advanced Year Field Instruction and Integrative Seminar I</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6432</td>
<td>Evaluation of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6619</td>
<td>Clinical Practice II: Treatment of Families</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6548</td>
<td>Advanced Seminar in Clinical Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6536</td>
<td>Advanced Year Field Instruction and Integrative Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6846</td>
<td>Clinical Practice III: Treatment with Groups</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Advanced Clinical Practice</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td><strong>30</strong></td>
<td></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, two electives (6 sh), and two field placements (6 sh). The field placements are each 300 hours of agency field work that run consecutively beginning in fall through the end of spring semester. Students who are admitted with the advanced standing option complete this year of study.

Students must maintain a 3.0 GPA average in their graduate coursework. Students must satisfactorily complete field placement work to receive the M.S.W. degree. Students must complete their M.S.W. program course work within five years of admission to the program.

**Tk20**

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

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

**Advanced Curriculum (30 sh)**

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

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 36 hours of graduate level coursework and an optional 12-hour graduate 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. 11) 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 4.0
  - Miller Analogies Test (MAT) scaled score of at least 400
  - Graduate Management Admissions Test (GMAT) composite score of at least 400
- Minimum undergraduate cumulative GPA of 3.2 on a 4-point scale
- Undergraduate degree in related field
- Submission of Departmental Admission Application
- Submission of two letters of reference
- Submission of current curriculum vita (CV)/résumé

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

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

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

Degree Requirements

- No grade below a B may be applied toward degree requirements.
- Students earning a grade below B in one course may retake the course.
- Students earning a grade below B in two courses will be dismissed from the program.

Foundational Proficiencies

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5005</td>
<td>Introduction to Graduate Studies in Communication</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Total Hours: 1.5

Major Courses

Core Principles

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6207</td>
<td>Advanced Communication Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COM 6525</td>
<td>Strategic Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 6

Discovery Methods

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6312</td>
<td>Advanced Communication Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>JOU 6115</td>
<td>Interviewing and Information Gathering</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 6

Strategic Applications

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5206</td>
<td>Communication Training</td>
<td>3</td>
</tr>
<tr>
<td>SPC 6646</td>
<td>Strategic Approaches to Presentational Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 6

Strategic Communication Contexts (complete a total of 13.5 s.h.)

<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 5933</td>
<td>Special Topics in Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6024</td>
<td>Emerging Topics in Health Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 5527</td>
<td>Communication Agency</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6401</td>
<td>Communication Theory</td>
<td>1.5</td>
</tr>
<tr>
<td>SPC 6545</td>
<td>Persuasion</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 5146</td>
<td>Fundraising Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>PUR 6937</td>
<td>Emerging Topics in Public Relations</td>
<td>1.5</td>
</tr>
<tr>
<td>ADV 6215</td>
<td>Emerging Topics in Advertising</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6210</td>
<td>Emerging Topics in Organizational Communication</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Total Hours: 13.5

Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6930</td>
<td>Organizational Communication Project</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 3

Health Communications Leadership Certificate

Department: Communication

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.

Course List:

<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 6024</td>
<td>Emerging Topics in Health Communication</td>
<td>1.5</td>
</tr>
</tbody>
</table>
Choose 4.5 Semester hours from the following | 4.5
---|---
COM 5933 Special Topics in Communication
COM 6129 Assessing Organizational Dynamics
COM 6210 Emerging Topics in Organizational Communication
COM 6525 Strategic Communication
JOU 6010 Emerging Topics in Media Issues
JOU 6115 Interviewing and Information Gathering
PUR 6408 Emerging Topics in Public Affairs
SPC 6646 Strategic Approaches to Presentational Speaking

Total Hours | 12
## Course Information

### In this section:
- Course Descriptions (http://catalog.uwf.edu/courseinformation/courses)
- General Course Information (p. 128)
- Course Schedule by Semester (https://erpapp.banner.uwf.edu/PROD/bwckschd.p_disp_dyn_sched)
- Material & Supply and Equipment Fees (p. 130)

### General Information

**Florida Statewide Course Numbering System**

(Section 1007.24, Florida Statutes)

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and by participating nonpublic institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is at the SCNS website at http://scns.fldoe.org.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the “SCNS taxonomy.” Descriptions of the content of courses are referred to as “statewide course profiles.”

### Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC</td>
<td>English</td>
<td>Lower</td>
<td>Freshman</td>
<td>Freshman</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>(first digit)</td>
<td>(second digit)</td>
<td>(third digit)</td>
<td>(fourth digit)</td>
<td></td>
</tr>
</tbody>
</table>

**Example: ENC 1101**

In the SCNS taxonomy, “ENC” means “English Composition,” the century digit “1” represents “Freshman Composition,” the decade digit “0” represents “Freshman Composition Skills,” and the unit digit “1” represents “Freshman Composition Skills I.”

In the sciences and certain other areas, a “C” or “L” after the course number is known as a lab indicator. The “C” represents a combined lecture and laboratory course that meets in the same place at the same time. The “L” represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions.

For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

NOTE: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on the semester-term system. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

### The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

### 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.

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in Exceptions to the General Rule for Equivalency.

For example, a freshman composition skills course is offered by 84 different public and nonpublic postsecondary institutions. Each institution uses “ENC_101” to identify its freshman composition skills course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, “ENC” means “English Composition,” the century digit “1” represents “Freshman Composition,” the decade digit “0” represents “Freshman Composition Skills,” and the unit digit “1” represents “Freshman Composition Skills I.”
to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been excepted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

1. Courses not offered by the receiving institution.
2. For courses at nonregionally accredited institutions, courses offered prior to the established transfer date of the course in question.
3. Courses in the _900-999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations.
5. Graduate courses.
6. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999.
7. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Courses at Nonregionally Accredited Institutions

The SCNS makes available on its home page (http://scns.fldoe.org) a report entitled “Courses at Nonregionally Accredited Institutions” that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course’s transfer level and transfer effective date. This report is updated monthly. Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to the University of West Florida in the Office of the Registrar or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the SCNS office at (850) 245-0427 or at http://scns.fldoe.org.

How to Find Courses

Please consult the Course Descriptions (http://catalog.uwf.edu/courseinformation/courses) section of the catalog for specific course information.

Course Level

Lower Division Courses have a “1” or “2” as the first digit of the course number. Upper Division Courses have a “3” or “4” as the first digit of the course number.

Graduate Courses have a “5,” “6,” “7,” or “8” as the first digit of the course number.

Classification of Courses

The University course numbering system is as follows:

<table>
<thead>
<tr>
<th>Course Range</th>
<th>Open To</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000-2999</td>
<td>Freshman, sophomores, and non-degree students, unless otherwise noted</td>
</tr>
<tr>
<td>3000-4999</td>
<td>Open to freshmen, sophomores, juniors, seniors, and non-degree students</td>
</tr>
<tr>
<td>5000-5999</td>
<td>Open to all degree-seeking and non-degree graduate students. Juniors and seniors may register for 5000-level courses under certain conditions</td>
</tr>
<tr>
<td>6000-7999</td>
<td>Restricted to students enrolled in graduate programs and other post baccalaureate students who may be admitted at the discretion of the department chairperson. Non-degree students must have permission of the specific course instructor to register for 6000-level courses</td>
</tr>
<tr>
<td>8000-8999</td>
<td>Restricted to students enrolled in the doctoral program</td>
</tr>
</tbody>
</table>

Restricted Courses

Departments may restrict enrollment in specific courses to students in the major or other categories of students based on academic needs and requirements. These courses are noted in the online course search. Students should refer to the Registration Error Messages (https://confluence.uwf.edu/display/public/Registration/Error+Messages) guide if a registration error is encountered due to a course restriction.

Unassigned Course Numbers (XXX and —)

Courses listed in degree plans with XXX as the last three digits of a course number are pending assigned course numbers within the Statewide Common Course Numbering System. Information concerning these courses must be obtained from the offering department.

Hours

The number of credit hours follows each course listing. Directed study, internship, thesis, practicum, and some other courses are offered on a variable hours basis. For these courses, the minimum and maximum number of hours will be indicated. The number of hours will be determined in consultation with the instructor and advisor.
Semester Course Offered

Please consult the academic department offering a course for information concerning semester(s) in which a particular course is normally offered. Potential course offerings are subject to change based upon student enrollment, faculty availability, program changes, etc. Students should contact their advisor when developing schedules to ensure timely completion of prerequisites and courses required for graduation.

Course Prerequisites/Corequisites

It is the student’s responsibility to review the prerequisite and corequisite requirements included as part of the course search. Refer to Searching for Courses (https://confluence.uwf.edu/display/public/Searching+for+Course+Offerings) for step-by-step instructions on how to search for a course and view the prerequisites and/or corequisites. For further information about prerequisites and corequisites, please contact the offering department and review the information found in the Registration Policies & Procedures (p. ) section of this Catalog.

990-999 Course Numbers

Courses in the 990-999 series are not identified in the University catalog and are exceptions to the general rule for course equivalencies and may not be transferable. Transfer credit is at the discretion of the receiving institution. These courses are semester specific and may change in title, content, and credit hours.

Material & Supply Fees and Equipment Fees

Material and supply fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction. Equipment usage fees allow units to charge for courses that use equipment in the educational process, which is used to prepare students for their careers or professions and is used for instructional purposes only with direct use by students. A list of approved courses and fees is available on the Academic Affairs Budget Office Website (http://pages.uwf.edu/aabudget/fees/coursefees.cfm).
Descriptions

ACG - Accounting: General Courses

ACG 2021 Principles of Financial Accounting
3 sh (may not be repeated for credit)
Introduction to financial accounting as an information and decision support system for users of financial information.

ACG 2071 Principles of Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021
Role of accounting as a tool in decision making process within the economic framework of the firm.

ACG 3082 Accounting for Non-Majors
3 sh (may not be repeated for credit)
Coverage of financial, managerial, and cost accounting topics with an emphasis on uses of accounting information; available to non-business majors only.

ACG 3101 Intermediate Financial Accounting I
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570

ACG 3111 Intermediate Financial Accounting II
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101 AND FIN 3403
Continuation of ACG 3101.

ACG 3172 Financial Accounting Topics
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Explain/analyze complexities of leases, pensions, income taxes, long-term debt, long-term investments, stockholders' equity, accounting changes, and other financial components from a financial statement user perspective. Available to non-accounting majors only.

ACG 3180 Financial Statement Analysis
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Introduction to the study of financial statements, including interpreting accounting data and analyzing financial statements. Cross listed with FIN 3461. Prerequisites: FIN 3403 minimum grade of C.

ACG 3343 Cost Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570
Provides students with the skills to prepare accounting information for use in the management decision making process. Contains material on accounting system design, budgeting, standard costing, direct costing, performance evaluation, and use of accounting information.

ACG 3401 Accounting Information Systems
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Design of systems to capture, process and report accounting information.

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

ACG 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation, confirming educational and career goals, personal and professional development, early start in career, earnings toward self-support, and improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of the director of Cooperative Education is required.

ACG 4151 Accounting Theory
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111 AND GEB 3213
Critical evaluation of broad framework of financial accounting theory.

ACG 4201 Advanced Financial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111
Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with ACG 5205; graduate students will be assigned additional work.

ACG 4501 Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111
Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with ACG 5658; graduate.

ACG 4651 Auditing
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111 AND ACG 3401
Introduction to principles of auditing and other assurance services with an emphasis on attestation standards and ethical requirements promulgated by the American Institute of Certified Public Accountants.

ACG 4682 Forensic Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
The purpose is to acquaint the student with both the pervasiveness of and the causes of financial fraud in our society, and to explore in detail the methods in which financial fraud is perpetrated.

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

ACG 4941 Accounting Internship
1-6 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Supervised field practicum in accounting-related position. May include activities in professional accounting, accounting information systems, or controllership. Graded on satisfactory / unsatisfactory basis only. Permission is required.

ACG 5205 Advanced Financial Accounting
3 sh (may not be repeated for credit)
Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations and partnerships. Offered concurrently with ACG 4201; graduate students will be assigned additional work.
ACG 5658  Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with ACG 4501; graduate students will be assigned additional work.

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

ACG 5931  CPA Examination Review Financial Accounting and Reporting
1.5 sh (may not be repeated for credit)
This course is designed to cover the Financial Accounting and Reporting (FAR) topics tested on the Uniform CPA Examination. It will focus on topics related to Financial Accounting and Reporting as they relate to business enterprises, governmental entities, and not-for-profit organizations. This course and its sister courses, ACG 5932, ACG 5XX1-1, and ACG 5XX1-2 are designed to provide a review of topics tested on all sections of the CPA examination. This course will not satisfy Florida’s 150 semester hour requirement, or Florida’s upper level accounting requirement.

ACG 5932  CPA Examination Review of Regulation
1.5 sh (may not be repeated for credit)
This course is designed to cover the Regulation (REG) topics tested on the Uniform CPA Examination. It will focus on federal tax law, business law, ethics and a Certified Public Accountant’s professional and legal responsibilities. This course and its sister courses, ACG 5931, ACG 5933, and ACG 5935 are designed to provide a review of topics tested on all sections of the CPA examination. This course will not satisfy Florida’s 150 semester hour requirement, or Florida’s upper level accounting requirement.

ACG 5933  CPA Examination Review of Auditing and Attestation
1.5 sh (may not be repeated for credit)
This course is designed to cover the Auditing and Attestation (AUD) topics tested on the Uniform CPA Examination. It will will stress a proficiency in the professional skills assessed on the Auditing and Attestation section of CPA examination. This course and its sister courses, ACG 5931, ACG 5932, ACG 5935 are designed to provide a review of topics tested on all sections of the CPA examination. This course will not satisfy Florida’s 150 semester hour requirement, or Florida’s upper level accounting requirement.

ACG 5935  CPA Examination Review of Business Environment and Concepts
1.5 sh (may not be repeated for credit)
This course is designed to cover the Business Environment and Concepts (BEC) topics tested on the Uniform CPA Examination. It will focus on the general business environment and business concepts needed to understand the implications of accounting in business transactions, and the underlying business reasons for decisions made in the business environment as it deals with accounting principles. This course and its sister courses, ACG 5931, ACG 5932, and ACG 5933 are designed to provide a review of topics tested on all sections of the CPA examination. This course will not satisfy Florida’s 150 semester hour requirement, or Florida’s upper level accounting requirement.

ACG 6308  Advanced Managerial Accounting
3 sh (may not be repeated for credit)
Management control and behavior, control structures, responsibility accounting, cost / profit / investment centers, budgets and performance evaluation, control of projects, control in service, and non-profit organizations. Must have completed ACG 3343 or the equivalent with a grade of C (2.0) or better to enroll.

ACG 6309  Accounting for Decision Making
3 sh (may not be repeated for credit)
Upon completion of the course, students will gain knowledge about budgeting, profit planning, and controlling aspects of business decision making. This course covers three broad areas: fundamental financial and managerial concepts; revenue and cost accumulation techniques; and revenue and cost analysis. Available to non-accounting majors only.

ACG 6405  Advanced Accounting Information Systems
3 sh (may not be repeated for credit)
A seminar for the study of contemporary accounting system topics with an emphasis on internal controls. Primary emphasis is placed on an accounting system design project. Must have completed ACG 3401 or equivalent with C (2.0) or better to enroll.

ACG 6805  Seminar in Financial Accounting
3 sh (may not be repeated for credit)
A blend of traditional and contemporary accounting issues with focus on the development of financial accounting theory, the relationship of theory and research to standard setting, and discussion of current accounting standards. Examines the objectives, measurement models, controversies, and philosophy of financial accounting. Must have completed ACG 4151 or the equivalent with a grade of C (2.0) or better to enroll.

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

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

ADE - Adult Education Courses

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

ADV 2214  Advertising Graphics I
3 sh (may not be repeated for credit)
Provides an introduction to the use of computers in the communication professions. Students will get "hands-on" experience using selected Adobe Creative Suite applications (Photoshop, Illustrator, and InDesign) for advertising and publication design on a Mac platform. Some basic design principles will be introduced along with the use of software. Acceptable prerequisite for advanced computer-based Communication Arts courses. Course restricted to students in the Major or Minor in Communication Arts.

ADV 3000  Introduction to Advertising
3 sh (may not be repeated for credit)
Advertising as an institution, strategy development, and creative execution in the advertising media. Provides a basic understanding of the advertising process, advertising's role in society, its procedures and practices.

ADV 3101  Creative Strategy & Tactics I
3 sh (may not be repeated for credit)
Prerequisite: (ADV 3000 OR COM 3003) AND (ADV 2214)
Covers the strategy, conceptualization, and execution of effective advertising. Professional advertising writing and art direction for both print, broadcast and digital media 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 Strategy & Planning
3 sh (may not be repeated for credit)
Prerequisite: ADV 3000 OR COM 3003
Analysis and evaluation of advertising media, market analysis, media planning, media strategies, discussions, and costs. Credit may not be received in both ADV3300 and ADV 3300C.

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

ADV 4202  Creative Strategy and Tactics II
3 sh (may not be repeated for credit)
Prerequisite: ADV 3101
Advanced creative direction theory and execution. Course will build professional level portfolio. Students will learn how to find a job opening, create job search materials (including an advertising portfolio), acquire the skills needed to apply and interview for a job, and learn how to successfully negotiate getting hired. Students will also gain valuable experience learning to rely on themselves, and their own resourcefulness to succeed in class and life.

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

ADV 4802  Integrated Communication-Campaigns
3 sh (may not be repeated for credit)
Prerequisite: (ADV 3101 AND COM 4301*) OR MAR 4613*
The capstone experience for advertising and public relations majors. Prepare complete integrated communication campaign, including: research, strategy, design, copy, and presentation to client. Senior major or minor status in advertising or public relations required.

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

ADV 6215  Emerging Topics in Advertising
1.5 sh (may be repeated for up to 3 sh of credit)
Covers advanced theories and practices in advertising, with a focus on visual communication and brand communication. Principles of graphic communication, theories of semiotics, the concept of branding, brand positioning, brand image, and brand personality will be introduced. Students will evaluate advertising images, brand image, and brand personality using theories and principles covered in the course. They will also develop visual promotional materials and brand-based communication strategies by implementing those theories and principles.

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

AFH - African History Courses

AFH 4503  Africans in the Atlantic World
3 sh (may not be repeated for credit)
Africans comprised roughly two-thirds of 12 million migrants to the Americas between the 15th and 19th centuries. Course examines their experiences and their descendants in the making of the Atlantic world. Surveys critical time periods, institutions, individuals, and events, in the development of Creole societies throughout the Atlantic littoral. Emphasis placed on the construction of a “black Atlantic” identity among Africans and African-descended people throughout the Atlantic world. Special attention is paid to the history of West Africa. Story is told from an African point of view.
AFR- Aerospace Studies Courses

AFR 1000  Air Force ROTC Physical Training
0 sh (may not be repeated for credit)
A mandatory course for all AFROTC students. The purpose is to enhance the fitness level of cadets and prepare them to meet AFROTC and Air Force standards, motivate cadets to pursue a physically fit and active lifestyle, improve both the safety and efficiency of physical training within AFROTC. AFROTC-sponsored PT activities include, but are not limited to, conditioning exercises, calisthenics, 1.5 mile run (PFT), Warrior Runs, etc. The Cadet PT program is an essential component of Leadership Laboratory. In order to successfully complete the PT portion of Leadership Laboratory, cadets must meet the attendance requirements IAW AFROTCI 36-2017, paragraph 1.

AFR 1101  The Foundations of the United States Air Force I
1 sh (may not be repeated for credit)
Study of the Air Force in the contemporary world. Examines the U.S. Air Force mission and organization, officerhood 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)
Corerequisite: AFR 1101

AFR 1102  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)
Corerequisite: AFR 1102

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)
Corerequisite: 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)
Corerequisite: AFR 2132

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

AFR 3221  Air Force Leadership and Management I
3 sh (may not be repeated for credit)
Integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivation and behavioral processes, leadership, ethics, communication, and group dynamics provide a foundation for the development of the junior officer's professional skills as an Air Force officer. The basic managerial processes involving decision-making, and the use of analytic aids in planning, organization, and controlling in a changing environment are emphasized. Laboratory provides opportunities for practical application of leadership skills.

AFR 3221L  Air Force Leadership and Management I Lab
0 sh (may not be repeated for credit)
Corerequisite: AFR 3221

AFR 3222  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 3232  Air Force Leadership and Management II
3 sh (may not be repeated for credit)
Corerequisite: AFR 3222

AFR 3232L  Air Force Leadership and Management II Lab
0 sh (may not be repeated for credit)
Corerequisite: AFR 3232

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)
Corerequisite: AFR 4211
AMH 4140  Early American Republic  
3 sh (may not be repeated for credit)  
This course examines the major issues, events, and figures that defined the early American republic, the formative period of American history from the American Revolution to the War of 1812. All aspects of the early republic will be covered -- social, cultural, economic, political, constitutional, diplomatic, military, and biographical.

AMH 4144  The Era of Good Feelings  
3 sh (may not be repeated for credit)  
This course examines the major issues, events, and figures that defined the years between the end of the War of 1812 and the election of Andrew Jackson in 1828. All aspects of the ?Era of Good Feelings? will be covered -- social, cultural, economic, political, constitutional, diplomatic, and military.

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

AMH 4160  Jacksonian America  
3 sh (may not be repeated for credit)  
Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered - social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 4172  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 4182  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 4190  Disaster in North American History  
3 sh (may not be repeated for credit)  
Explores disaster as an analytical theme in the history of North America from the colonial era through the present.

AMH 4202  History of Florida  
3 sh (may not be repeated for credit)  
Pre-Columbian to present; social, economic, and political development.

AMH 4277  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.
20468  The American West
3 sh (may not be repeated for credit)
Seminar examines the complex relationships between history, myth-making, and national identity in the American West.

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 4644  Civil Rights and Hollywood
3 sh (may not be repeated for credit)
Through this Public History undergraduate course, we will use period films and television to explore the Civil Rights Movement and its affect on the course of events in United States history as well as its influence on aspects of American culture. We will conduct classes through a combination of lectures, film screenings, and discussions, as well as with individual and group projects. Offered concurrently with AMH 4646; graduate students will be assigned additional work.

AMH 4694  North American Seafaring
3 sh (may not be repeated for credit)
Explores the history of North American seafaring from the pre-Columbian era through the twentieth century.

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

AMH 5156  Lewis and Clark: Corps of Discovery
3 sh (may not be repeated for credit)
This course will research and create interpretive pieces on visitor sites from the travels of Meriwether Lewis, William Clark, and the Corps of Discovery from its inception with Thomas Jefferson through its travels from 1803 to 1806. Elements will focus on the conflicting perspectives of Turnerian ?Frontier? theory and New Western historical theory as well as the greater elements of change in the West including the progression of native populations, American expansion, environmental issues, cultural viewpoints, and the elements leading to current conditions. Classes will be conducted through a combination of lectures and discussions. From these concentrated sessions, students will then research selected visitor facilities across the United States and create interpretive narrative content on each for the Next Exit History? database. Offered concurrently with AMH 4153; graduate students will be assigned additional work.

AMH 5169  Jacksonian America
3 sh (may not be repeated for credit)
This course examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered -- social, cultural, economic, political, constitutional, diplomatic, and military. Offered concurrently with AMH 4160; graduate students will be assigned additional work.

AMH 5277  Cold War and Film
3 sh (may not be repeated for credit)
Period films are used to learn about the Cold War and its affect on the course of events in U.S. history as well as its influence on aspects of American culture. Classes conducted through a combination of lectures, film screenings, and discussions as well as with individual and group projects. Offered concurrently with AMH 4272; graduate students are assigned additional work.

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

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

AMH 6116  Colonial America
3 sh (may not be repeated for credit)
Seminar explores the major historiographical trends in Colonial American history (1585-1776). The course is more thematic than comprehensive and stresses breadth rather than depth.

AMH 6117  Seminar: History of The Atlantic World
3 sh (may not be repeated for credit)
This course explores the history of the Atlantic world from 1400-1800, with a special focus on the impact of Atlantic studies on the study of early American history.
AMH 6137  Revolutionary America
3 sh (may not be repeated for credit)
This course explores the causes, course and consequences of the revolution. We consider two dimensions of the revolution?as a war of independence and a social upheaval within the colonies. Topics include the commercial and political strands of empire; the nature of creole identity, culture and society; the imperial crises and opening of the war; the role of various fighting forces through the Peace of Paris; and the subsequent struggles over the character of new state and national governments.

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

AMH 6347  Materials Culture
3 sh (may not be repeated for credit)
Course Description: This course examines the use of material culture as a form of historical research. The objects people used are just as important as the documents they wrote, and reveal much about the past. Utilizing primary documents as well as material culture, students will expand on traditional research methodologies to incorporate the use of material objects to understand history.

AMH 6439  Seminar: The Southern Frontier
3 sh (may not be repeated for credit)
Research seminar focusing on the U.S. Southeastern frontier from 1750-1850.

AMH 6696  Seafaring in North America
3 sh (may not be repeated for credit)
Explores the history of North American seafaring from the pre-Columbian era through the twentieth century.

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

AML - American Literature Courses

AML 2010  American Literature I
3 sh (may not be repeated for credit)
Survey of major American literature from colonial times to the Civil War. Open to all students. Meets General Education requirement in Humanities. Meets Multicultural Requirement.

AML 2020  American Literature II
3 sh (may not be repeated for credit)
Survey of major American literature from the Civil War to the present. Open to all students. Meets General Education requirement in Humanities. Meets Multicultural Requirement.

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. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement.

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

AML 3604  African American Literature
3 sh (may not be repeated for credit)
This is a discussion and collaborative group work course in which students will explore African American literature, from the time of the Spanish conquest through the American Revolution and the early Republic. Topics vary according to faculty expertise and research interests.

AML 3624  Black Women Writers
3 sh (may not be repeated for credit)
Poetry, drama, and prose of black women writers in America. Emphasis on works from the Harlem Renaissance to the present. Meets Multicultural Requirement.

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

AML 4014  Topics in Early American Literature
3 sh (may not be repeated for credit)
Explores themes in nineteenth-century American literature, from the time of the Spanish conquest through the American Revolution and the early Republic. Topics vary according to faculty expertise and research interests.

AML 4054  Topics in Twentieth-Century and Contemporary American Literature
3 sh (may not be repeated for credit)
Explores themes in nineteenth-century American literature, from the Romantics through realism and early modernism. Emphasizes new critical approaches and the racial, ethnic and cultural diversity of American literature. Topics vary according to faculty expertise and research interests. Meets Multicultural Requirement.

AML 4055  Topics in Nineteenth-Century American Literature
3 sh (may not be repeated for credit)
Explores themes in nineteenth-century American literature, from the Romantics through realism and early modernism. Emphasizes new critical approaches and the racial, ethnic and cultural diversity of American literature. Topics vary according to faculty expertise and research interests. Meets Multicultural Requirement.

AML 4302  Single Author Seminar, American Literature, 1700 to the Present
3 sh (may not be repeated for credit)
Prerequisite: ENG 3010
This course is designed to give students an in-depth view into American Literature through detailed study of the work of a single canonical author. Extended study of the oeuvre of a single author gives students insight into not only specific moments of history and the overall scene of publishing/literature, but also how a specific author?s style and treatment of themes develop over time.
Ang - Anthropology: Graduate Courses

Ang 5001  Archaeological Field Survey
3 sh (may not be repeated for credit)
Instruction in archaeological field survey techniques for the identification, location, and documentation of both terrestrial and submerged cultural resources. Subjects include research methodologies, cultural resource management process and regulations, ethical concerns relating to archaeological sites, remote sensing methodologies, magnetometer and sonar applications in maritime archaeology, collection of archaeological and environmental data, use of mapping and surveying equipment, field survey strategies and research design, fundamentals of data collection and recording, FMSF survey forms, report writing and production. Permission is required. Offered concurrently with ANT 4820. Graduate students will be assigned additional work.

Ang 5080  Archaeological Field Survey
3 sh (may not be repeated for credit)
Instruction in archaeological field survey techniques for the identification, location, and documentation of both terrestrial and submerged cultural resources. Subjects include research methodologies, cultural resource management process and regulations, ethical concerns relating to archaeological sites, remote sensing methodologies, magnetometer and sonar applications in maritime archaeology, collection of archaeological and environmental data, use of mapping and surveying equipment, field survey strategies and research design, fundamentals of data collection and recording, FMSF survey forms, report writing and production. Permission is required. Offered concurrently with ANT 4820. Graduate students will be assigned additional work.

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 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  Pre-Columbian 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
archaeological 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 5321  Cultures of Mexico
3 sh (may not be repeated for credit)
Students will explore the key themes and elements of Mexican culture,
including the development of a distinct Mexican national culture from
Old World and New World roots, as well as the regional diversity of
Mexican culture today. As students examine the composition and
diversity of Mexican national and regional cultures, they will also
encounter topics of race and ethnicity, socioeconomic class, gender,
economic development, politics and social organization as they
relate to Mexican culture and Mexico's place in the world. Offered
concurrently with ANT 4321; graduate students will be assigned
additional work.

ANG 5408  Disease and Culture
3 sh (may not be repeated for credit)
Through lecture and discussion of readings we will explore the
relationships between disease and culture. Main topics will include
the basics of disease epidemiology in humans, human bio-cultural
adaptations to disease, and the effects and influences of disease
on human culture and society. Offered concurrently with ANT 4532;
graduate students will be assigned additional work.

ANG 5453  Anthropology of Human Rights
3 sh (may not be repeated for credit)
Examines contemporary debates, topics, and issues in human rights
cross-culturally, and focuses on the history of the concept of human
rights, universalism vs. particularism, gender, race, religion, social
justice movements, and current human rights conventions.

ANG 5472  Anthropology of Globalization
3 sh (may not be repeated for credit)
Critically analyzes globalization and the global processes and
connections operating in the world today. Examines the complex
interactions of people, ideas, economic systems, technologies,
commodities, media and other forms that encompass globalization in
the post-Cold War era. Offered concurrently with ANT 4473; graduate
students will be assigned additional work.

ANG 5514  Human Origins
3 sh (may not be repeated for credit)
Overview of the fossil evidence for human evolution, and hominin
behavioral reconstruction using ethnographic and primate models.
Offered concurrently with ANT 4586; graduate students will be
assigned additional work.

ANG 5516  Modern Human Physical Variation
3 sh (may not be repeated for credit)
Evolutionary perspective on function and adaptive nature of biological
variation in modern man. Offered currently with ANT 4516; graduate
students will be assigned additional work.

ANG 5520  Human Osteology
4 sh (may not be repeated for credit)
Co-requisite: ANG 5520L
Detailed examination of human skeletal and dental anatomy,
structure, and function. Techniques of osteological analysis, including
determination of age, sex, stature, ancestry, and pathology. Offered
concurrently with ANT 4525; graduate students will be assigned
additional work. Credit may not be received in both ANG 5520 and
ANG 5466.

ANG 5520L  Human Osteology Lab
0 sh (may not be repeated for credit)
Co-requisite: ANG 5520
Corresponding lab for Human Osteology,

ANG 5536  Bioarchaeology
3 sh (may not be repeated for credit)
Bioarchaeology is the study of human skeletal remains from
archaeological sites. It draws on techniques from archaeology,
anatomy, biology, chemistry, pathology, demography, and history
in order to reconstruct both individual lives and collective population
histories across the globe. Offered concurrently with ANT 4536;
graduate students will be assigned additional work.

ANG 5537  Food, Biology and Culture
3 sh (may not be repeated for credit)
This course is a biocultural examination of the relationship between
food, human health, and society in past and present populations.
Food is a fundamental link between human biology and culture; the
great diversity of human food preferences, aversions, and avoidance
is rooted in both of these domains. The objective of this course
is to consider some of this diversity, and to try to achieve some
understanding, within an evolutionary paradigm, of the causes and
consequences of our food habits. Offered concurrently with ANT 4537;
graduate students will be assigned additional work.

ANG 5550  Primatology
3 sh (may not be repeated for credit)
Overview of the taxonomy, evolutionary history, ecology, and behavior
of non-human primates, and the theoretical basis and methodology
of primate studies. Offered concurrently with ANT 4550; graduate
students will be assigned additional work.

ANG 5803  Ethnographic Research Methods
3 sh (may not be repeated for credit)
This course serves as an opportunity for students to conduct original
research, and to put anthropological theory and method into practice
for insight into a small part of the human experience. We will conduct a
semester-long research project, incorporating several of the methods
anthropologists use in the field, to better understand a cultural group:
behavioral observation, interviews and surveys. From the resulting
data, we will work together to analyze and interpret it, culminating in
an original written ethnography. Offered concurrently with ANT 4803;
graduate students will be assigned additional work.

ANG 5905  Directed Study
1-12 sh (may not be repeated indefinitely for credit)
AN 6002  Proseminar in Anthropology
3 sh (may be repeated up to 6 sh of credit)
Examines selected subjects in anthropology using the perspectives of all three sub-disciplines: cultural anthropology, biological anthropology, and archaeology. The seminar's goals are to introduce students to the subject, provide in-depth understanding of current issues, and examine the variety of theoretical and methodological approaches used by anthropologists. Contact department for specific topic each semester offered. No more than 6 semester hours credit may be received.

AN 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.

AN 6110  Advanced Method and Theory in Archaeology Seminar
3 sh (may not be repeated for credit)
Includes an overview of the history and development of American archaeology with an emphasis on methodological and theoretical topics. Class is an organized seminar with readings and discussions of specific topics.

AN 6183L  Advanced Laboratory Methods in Archaeology
3 sh (may not be repeated for credit)
Advanced training in the operation of an archaeological laboratory. Activities include laboratory organization and management as well as planning laboratory activities to meet deadlines, assignment of tasks, training, and supervising beginning students. Graduate students will instruct undergraduate students in artifact identification and documentation. Credit may not be received in both AN 6183L and AN 6823L.

AN 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.

AN 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.

AN 6583  Evolutionary Theory in Biological Anthropology
3 sh (may not be repeated for credit)
Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human bio-cultural evolution.

AN 6824  Advanced Archaeological Field Methods
3-6 sh (may not be repeated for credit)
Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

AN 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
Preparation of master's thesis which includes problem identification, review of literature, design, data collection, analysis, and results. Permission of Thesis Committee required. Graded on satisfactory / unsatisfactory basis only.

ANT-Anthropology Courses

ANT 1138  Introduction to Maritime Studies
1 sh (may not be repeated for credit)
Basic introduction to maritime studies designed to familiarize students with the dynamic cultural and natural resources of the maritime environment. Students will gain knowledge and understanding of maritime environments.

ANT 2000  Introduction to Anthropology
3 sh (may not be repeated for credit)
Introduction to subdivision of anthropology and anthropological thought, basic treatment of human evolution, origins of civilization, world archaeology and modern work cultures, stressing the continuities of human nature. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.

ANT 2100  Introduction to Archaeology
3 sh (may not be repeated for credit)
Basic introduction to archaeology; includes fundamental principles, field and laboratory methods, theories construction, special sites and conditions, and ethics. Information from all over the world is used. Field trips to local archeological sites are usually included. Meets General Education requirement in Social Sciences.

ANT 2400  Current Cultural Issues
3 sh (may not be repeated for credit)
Deals with the problems that confront American culture such as poverty, language, race, gender, and violence. Involves critical, analytical and objective thinking so that our own culture and values can be viewed more objectively and other cultures can be better understood and respected. An important element is to provide an understanding of the role of the individual in the continuation or amelioration of issues that afflict American society. Meets General Education requirement in Social Sciences.

ANT 2511  Biological Anthropology
3 sh (may not be repeated for credit)
Human evolution and variation with emphasis on principles of evolution, primate biology, fossil records, variability in living populations, and the biological foundations of human culture capacities. Meets General Education requirement in Natural Sciences.

ANT 2511L  Biological Anthropology Lab
1 sh (may not be repeated for credit)
Lab corresponding with ANT 2511.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits (may not be repeated for credit)</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ANT 2905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td></td>
</tr>
<tr>
<td>ANT 3015</td>
<td>Forensics in the Media</td>
<td>3 sh</td>
<td>Provides students with relevant learning experiences focusing on the standard methods and techniques of forensic science and how it is inaccurately portrayed in popular media. Dispels CSI related myths in popular media, while learning about the multidisciplinary science behind real crime scene investigations.</td>
</tr>
<tr>
<td>ANT 3101</td>
<td>Principles of Archaeology</td>
<td>3 sh</td>
<td>Detailed explanation of the principles and methodology of current archaeology in U.S.; includes a brief history and theoretical orientation development of American archaeology.</td>
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<tr>
<td>ANT 3117</td>
<td>Shipwreck Archaeology</td>
<td>3 sh</td>
<td>Introductory course in Underwater Archaeology with an emphasis on American Maritime History and New World Archaeology as they relate to Pensacola's maritime heritage. The format centers on assigned readings and classroom meetings with lectures, discussions, educational slides and videos, and workshops. An attempt is made to incorporate field activities on at least one occasion.</td>
</tr>
<tr>
<td>ANT 3141</td>
<td>Origins of Civilization</td>
<td>3 sh</td>
<td>Cultural processes leading toward civilization and theories explaining the emergence of civilization. Comparison of the early civilizations of Mesopotamia, Egypt, India, China, Mesoamerica, and Peru.</td>
</tr>
<tr>
<td>ANT 3153</td>
<td>North American Archaeology</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3158</td>
<td>Florida Archaeology</td>
<td>3 sh</td>
<td>Archaeology of Florida with emphasis on general patterns of development of Florida Indians. Field trips to area archaeological sites.</td>
</tr>
<tr>
<td>ANT 3212</td>
<td>Peoples and Cultures of the World</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3241</td>
<td>Anthropology of Religion</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3311</td>
<td>Indians of the Southeast: An Anthropological Perspective</td>
<td>3 sh</td>
<td>Southeastern Indians is a survey course of the Native American groups in the Southeastern U. S. and their culture. It begins with an overview of prehistory and continues into the early 19th century. Examines such key areas as sociocultural archaeology, archaeology, biological archaeology, and history. Credit may not be received in both ANT 3311 and ANT 3317.</td>
</tr>
<tr>
<td>ANT 3312</td>
<td>North American Indians</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3352</td>
<td>African Cultures</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3363</td>
<td>Japanese Culture</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3403</td>
<td>Cultural Ecology</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3520</td>
<td>Forensic Anthropology</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ANT 3610</td>
<td>Language and Culture</td>
<td>3 sh</td>
<td>Introduction to linguistic principles as they relate to the study of culture. Discussion of origins and nature of language. Direct applications of linguistic concepts in anthropological structure analyses and ethnography. Credit may not be received in both ANT 3610 and ANT 3620.</td>
</tr>
<tr>
<td>ANT 3905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td></td>
</tr>
</tbody>
</table>
ANT 4006  Anthropology of Human Rights
3 sh (may not be repeated for credit)
Examines contemporary debates, topics, and issues in human rights
cross-culturally, and focuses on the history of the concept of human
rights, universalism vs. particularism, gender, race, religion, social
justice movements, and current human rights conventions. Offered
concurrently with ANG 5453; graduate students will be assigned
additional work. Meets Multicultural Requirement.

ANT 4034  History of Anthropology
3 sh (may not be repeated for credit)
Development of anthropology with emphasis on the emergence of
modern American discipline; detailed treatment of the formation of
evolutionary, historical, functional and ecological orientations of the
discipline.

ANT 4115  Method and Theory in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
History and evolution of archaeological methods and theory in the
United States. Major schools of thought and currently developing
ideas are compared and contrasted: sampling theory, site formation,
geosciences. Permission is required.

ANT 4121  Combined Archaeological Field Methods
1-9 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Onsite training in maritime and terrestrial archaeology (6 weeks each).
Structured hands on experience including training in both field and
laboratory methods. Emphasized methods include site control grids,
setting up excavation units, basic excavation techniques, use of
hand tools, identification of ship structure and features, screening
techniques, field documentation, principles and procedures. A diving
certificate from a nationally recognized program and permission is
required. Material and Supply Fee will be assessed.

ANT 4155  Archaeology of the Southeastern United States
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Prehistory of the Southeastern United States including chronology,
ways of life and the evolution of cultural adaptations for the past
15,000 years. Field trips to archaeological sites and museums will be
conducted.

ANT 4172  Historical Archaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Principles and methodology of historical archaeology; includes history
of this specialty and theoretical development. Course is detailed
and is required for Historical Archaeology graduate students prior to
taking ANG 5172. Field trips to local historical archaeology sites and
museums and permission is required.

ANT 4180L  Laboratory Methods in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: (ANT 2000 AND ANT 3101) OR ANT 4824
Introduction to the basic methods of processing, classifying, coding
and analysis or archaeological material. Hands-on laboratory methods
are taught utilizing collections from recent field school and project
evacuations. 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 spread sheets, digital image development and manipulation,
map making, data base construction, management, and querying.
Geographic Information Systems (GIS) and computer assisted drawing
(CAD) will also be introduced. Windows applications for the personal
computer are used to perform these analyses.

ANT 4247  Anthropology of the Bible
3 sh (may not be repeated for credit)
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. Credit may not be received in both ANT 4247 and ANT
4174.

ANT 4302  Sex Roles in Anthropological Perspective
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Female and male behavioral, social and biological similarities and
differences viewed from a biological-cultural perspective. Emphasizes
upon evolution and cross-cultural comparison.

ANT 4315  Method and Theory in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Focuses on the methods and techniques of analysis of archaeological
resources in that system. Topics include historic preservation system, archaeological resource
management, and the contributions to the discipline of anthropology.
Permission is required.

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)
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 4522;
graduate students will be assigned additional work.

ANT 4451  Race, Ethnicity, and Culture
3 sh (may not be repeated for credit)
Explores race and ethnicity and their relationship to culture in a
cross-cultural, anthropological perspective. Will consider cultural
constructions of race and ethnicity in the United States, in other areas
of the Americas, and other areas of the world. Offered concurrently
with ANG 5451; graduate students will be assigned additional work.

ANT 4473  Anthropology of Globalization
3 sh (may not be repeated for credit)
Critically analyzes globalization and the global processes and
connections operating in the world today. Examines the complex
interactions of people, ideas, economic systems, technologies,
commodities, media and other forms that encompass globalization in
the post-Cold War era. Offered concurrently with ANG 5472; graduate
students will be assigned additional work.

ANT 4516  Modern Human Physical Variation
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Evolutionary perspective on function and adaptive nature of biological
variation in modern humans. Offered concurrently with ANG 5XX5
(Modern Human Physical Variation); graduate students will be
assigned additional work.

ANT 4523  Field Methods in Forensic Anthropology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101 AND ANT 4525/L
On-site training in forensic field methods for the location,
documentation, and recovery of human skeletal remains from surface
and buried contexts. Includes use of surveying equipment and hand
evacuation tool. Permission is required.

ANT 4525  Human Osteology
4 sh (may not be repeated for credit)
Prerequisite: ANT 2511
Co-requisite: ANT 4525L
Detailed examination of human skeletal and dental anatomy,
structure, and function. Techniques of osteological analysis, including
determination of age, sex, stature, ancestry, and pathology. Offered
concurrently with ANG 5520; graduate students will be assigned
additional work. Credit may not be received in both ANT 4525 and ANT
4466.

ANT 4525L  Human Osteology Lab
0 sh (may not be repeated for credit)
Co-requisite: ANT 4525
Corresponding lab for Human Osteology.

ANT 4532  Disease and Culture
3 sh (may not be repeated for credit)
Through lecture and discussion of readings we will explore the
relationships between disease and culture. Main topics will include
the basics of disease epidemiology in humans, human bio-cultural
adaptations to disease, and the effects and influences of disease
on human culture and society. Offered concurrently with ANG 5408;
graduate students will be assigned additional work. Credit may not be
received in both ANT 4532 and ANT 4408.

ANT 4536  Bioarchaeology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Bioarchaeology is the study of human skeletal remains from
archaeological sites. It draws on techniques from archaeology,
anatomy, biology, chemistry, pathology, demography, and history
in order to reconstruct both individual lives and collective population
histories across the globe. Offered concurrently with ANT 5536;
graduate students will be assigned additional work. Pre requisite:
ANT 2511/L minimum grade C.

ANT 4537  Food, Biology and Culture
3 sh (may not be repeated for credit)
This course is a biocultural examination of the relationship between
food, human health, and society in past and present populations.
Food is a fundamental link between human biology and culture; the
great diversity of human food preferences, aversions, and avoidance
is rooted in both of these domains. The objective of this course
is to consider some of this diversity, and to try to achieve some
understanding, within an evolutionary paradigm, of the causes and
consequences of our food habits. Offered concurrently with ANG 5537;
graduate students will be assigned additional work.

ANT 4550  Primatology
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Overview of the taxonomy, evolutionary history, ecology, and behavior
of non-human primates, and the theoretical basis and methodology
of primates studies. Offered concurrently with ANG 5550; graduate
students will be assigned additional work.

ANT 4586  Human Origins
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Overview of the fossil evidence for human evolution, and hominid
behavioral reconstruction using ethnoarchaeological and primate models.
Offered concurrently with ANG 5514; graduate students will be
assigned additional work.

ANT 4611  Anthropology of Globalization
3 sh (may not be repeated for credit)
Explores race and ethnicity and their relationship to culture in a
cross-cultural, anthropological perspective. Will consider cultural
constructions of race and ethnicity in the United States, in other areas
of the Americas, and other areas of the world. Offered concurrently
with ANG 5451; graduate students will be assigned additional work.

ANT 4651  Aesthetics & Critical Theory
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L
Experiential and anthropological/semiotic examination of the topic
of aesthetics as a central foundation of human culture. Students
meet with 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 4803   Ethnographic Research Methods
3 sh (may not be repeated for credit)
Prerequisite: ANT 3212
This course serves as an opportunity for students to conduct original research, and to put anthropological theory and method into practice for insight into a small part of the human experience. We will conduct a semester-long research project, incorporating several of the methods anthropologists use in the field? to better understand a cultural group: behavioral observation, interviews and surveys. From the resulting data, we will work together to analyze and interpret it, culminating in an original written ethnography. Offered concurrently with ANG 5803; graduate students will be assigned additional work.

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 4820   Archaeological Field Survey
3 sh (may not be repeated for credit)
Prerequisite: ANT 2000
Instruction in archaeological field survey techniques for the identification, location, and documentation of both terrestrial and submerged cultural resources. Subjects include research methodologies, cultural resource management process and regulations, ethical concerns relating to archaeological sites, remote sensing methodologies, magnetometer and sonar applications in maritime archaeology, collection of archaeological and environmental data, use of mapping and surveying equipment, field survey strategies and research design, fundamentals of data collection and recording, FMSF survey forms, report writing and production. Offered concurrently with ANT 5001. Graduate students will be assigned additional work. Permission is required.

ANT 4824   Terrestrial Archaeological Field Methods
1-9 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Onsite training in terrestrial field methods includes use of hand tools, surveying equipment, and some power equipment. Emphasized in the field are excavation techniques in a variety of situations, field scale drawings, and documentation. Field lab methods are often included. Permission is required. Material and Supply Fee will be assessed.

ANT 4835   Maritime Archaeological Field Methods
1-9 sh (may not be repeated for credit)
Prerequisite: ANT 3101
Onsite training in maritime archaeology. Structured hands-on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and use of field instruments, and field conservation procedures. A diving certificate from a nationally recognized program and permission is required. Credit may not be earned in both ANT 4135 and ANT 4835. Material and Supply Fee will be assessed.

ANT 4835C Geographic Information Systems in Archaeology
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Application of Windows-based Geographical Information Systems technology in anthropology, archaeology and cultural resource management. Credit may not be earned in both ANT 4076C and ANT 4853C.

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

ANT 4944 Anthropology Internship
1-3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: ANT 4190 AND ANT 4824
Placement in community agency or other social or organizational setting. Supervision by faculty and agency. Student participates in full range of services available in the setting. An internship paper is required. A maximum of 6 sh may be applied to the major requirements. Permission is required.

**APK-Applied Kinesiology Courses**

APK 2000 Introduction to Exercise Science
3 sh (may not be repeated for credit)
This course is an introduction to the discipline of Exercise Science and provides an overview of exercise physiology, sport and exercise psychology, biomechanics, motor behavior, sport nutrition, and other related topics. This course also provides information on career paths that stem from the Exercise Science discipline.

APK 2100C Applied Human Anatomy with Laboratory
4 sh (may not be repeated for credit)
Study of detailed anatomy of the human body from a systematic approach. Understanding anatomical terminology, gross structures, and locations of different body structures are primary concerns. Cells, tissues and organs of the integumentary, skeletal, muscular, nervous, circulatory, respiratory, digestive, urinary and reproductive systems are emphasized. Designed for students interested in pursuing study in the health professions.

APK 2105C Applied Human Physiology with Laboratory
4 sh (may not be repeated for credit)
Prerequisite: APK 2100C
Detailed examination of body functions at the cellular, tissue, organ, and systems level with emphasis on the mechanisms of operation. Designed for students interested in pursuing study in the health professions.

APK 3110 Exercise Physiology
3 sh (may not be repeated for credit)
Prerequisite: (CHM 2045/L) AND (APK 2105C OR BSC 1085/L OR PCB 3097/L) AND (MAC 1105 OR MAC 1105C OR MAC 1114 AND MAC 1114 OR MAC 1140 OR MAC 2311)
Co-requisite: APK 3110L
Application of physiological principles to the study of human physical performance related to health, sports, and leisure activities.

APK 3110L Exercise Physiology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: APK 3110
Student shall become familiar with instruments and test procedures used to gather data on the physiology of exercise. Material and Supply Fee will be assessed.
APK 3220 Biomechanical Basis of Movement
3 sh (may not be repeated for credit)
Prerequisite: (APK 3110/L AND (ATR 3132 OR PCB 3097/L))
Co-requisite: APK 3220L

The fundamentals of engineering (kinematics and kinetics) related to motor skills and human performance are introduced. Basic college mathematics and physics knowledge will be applied to problem solving in a classroom setting.

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

The fundamentals of engineering (kinematics and kinetics) related to motor skills and human performance are introduced. Basic college mathematics and physics knowledge will be applied to problem solving in a classroom setting. Experimental procedures and sport research techniques will be applied in the laboratory setting. Prerequisites: APK 3110/L and either MAC 1105 or completion of General Education Mathematics minimum grade C.

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

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

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

Application of measurement and evaluation principles to study of man and human performance related to health, leisure and sports activities. Instructional designs of physical fitness, sport skills and knowledge testing are examined.

APK 4114C Physiological Basis of Strength Development
3 sh (may not be repeated for credit)
Prerequisite: ((APK 4163 AND ATR 3132)) AND (APK 3220 OR PET 4310C)

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

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

Designed of exercise programs for individuals with special medical conditions such as rheumatoid arthritis, osteoporosis, spinal disorders, diabetes, obesity, heart disease, hypertension, and pregnancy. Credit may not be earned in both PET 4552 and PET 4691.

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

Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class.

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

Provides practical experience in body fat analysis, flexibility testing, basic exercise stress testing, the PWC - 170 Submaximal Aerobic Capacity test, and performance testing for 7 fitness parameters.

APK 4163 Sports Nutrition
3 sh (may not be repeated for credit)
Prerequisite: (HUN 2201) AND (APK 3110/L OR PET 3351C)

Understanding of fundamental principles of sports nutrition, with an emphasis on evidence-based nutritional strategies to optimize health, fitness, and athletic performance. Topics include human energy systems, optimal nutrient amounts and timing, and weight management strategies in sports.

APK 4200 Motor Development and Skill Learning
3 sh (may not be repeated for credit)
Prerequisite: PSY 4832 OR APK 3232 OR (APK 3110 AND APK 4050)

Human motor development and the learning of motor skills are surveyed and discussed. Emphasis is placed upon factors affecting these processes and the design and selection of activities appropriate to the various stages of development and learning. Material and supply fee will be assessed.

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

The acquisition and interpretation of both resting and exercise electrocardiograms is covered, as well as an overview of heart anatomy, function and electrophysiology. Students are taught to identify various cardiac dysrhythmias and to administer a graded exercise test according to the American College of Sports Medicine guidelines. Students will engage in laboratory hands-on assignments that will include prepping of subjects, conduction and interpretation of a resting and graded exercise test. Department Permission is required.

APK 4409 Success in Sports
3 sh (may not be repeated for credit)

Success in Sports (SIS) is an integration of cross-boundary research documenting the determinants of success in sports. Special emphasis will be placed on elite athletic performance. Will be organized around theoretical accounts for the attainment of elite performance. In addition, the themes of Who in which profiles characteristics of elite athletes will be presented. Why in which inherited and acquired capacities responsible for elite performance will be presented, and How in which selected techniques to maximize training effects will be examined.
APK 4600C  Aging and Physical Performance  
3 sh (may not be repeated for credit)  
Prerequisite: APK 3232 AND APK 4125/L  
Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of the physiological, psychological and social factors which affect movement capabilities, the assessment of physical performance, and the development of activity programs for the aging.

APK 4901  Research Methods in Exercise Science  
3 sh (may not be repeated for credit)  
Prerequisite: APK 2000* AND STA 2023  
This course examines the scientific method and the role of research in developing knowledge in the discipline of Exercise Science. Students will gain experience to become critical consumers of research.

APK 4941C  Senior Capstone Experience in Exercise Science  
3-6 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: APK 4114C AND APK 4119 AND APK 4944  
As a capstone experience for Exercise Science students, this 6-credit course will provide opportunities for students to put theory into practice through active participation in on-the-job related participation. Students are supervised by practitioners in an Exercise Science relevant field and by faculty academic support. Additionally, students are required to attend a series of five (5) online lectures on topics related to professionalism, management, legal and health behavior in the health and fitness industry. Departmental permission, attendance to initial internship meeting, and online lectures are mandatory.

APK 4944  Exercise Science Practicum  
3 sh (may not be repeated for credit)  
Prerequisite: APK 3110L AND APK 4114C AND APK 4119 AND APK 4125L  
A laboratory practicum course for evaluation, review, and mastery of the competencies required per ACSM guidelines and CAAHEP accreditation standards.

APK 5116C  Applied Physiology in Muscular Development  
3 sh (may not be repeated for credit)  
Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development.

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

APK 5601  Preventative Health in the Aging Population  
3 sh (may not be repeated for credit)  
Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of physiological, psychological, and social factors affecting movement capabilities, the assessment of physical performance, and the development of activity programs for the aging population.

APK 5702  Statistics in Exercise Science  
3 sh (may not be repeated for credit)  
This course covers statistical analysis methods for descriptive, correlational, and experimental designs. Descriptive statistics, linear regression, introduction to multiple regression, t-ratio, analysis of variance for independent and repeated measures designs, factorial designs (Independent Groups, Repeated Measures, and Mixed Factorials), Analysis of Covariance, MANOVA, Chi square, and Non-parametric measures are included. Discriminant Function Analysis, and Power Analysis. In addition, reliability and validity issues related to experimental designs are addressed. Students receive instruction in the use of SPSS.

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

APK 6127C  Clinical Exercise Testing and Interpretation  
3 sh (may not be repeated for credit)  
Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class. Course includes hands on experience in exercise testing with advanced equipment including hydrostatic weighing, environmental conditions, and blood glucose and lactate analysis. Course concludes with a student presentation of an exercise prescription based on testing results, medical and exercise history and risk stratification. Material and Supply fee will be assessed.

APK 6167C  Advanced Human Nutrition and Metabolism  
3 sh (may not be repeated for credit)  
An advanced study of the role of nutrition as a means to enhance performance in exercise and sport. Topics include principles of energy metabolism, nutrients in their use during exercise, regulation of metabolism by macro and micro nutrients and their role in weight control with athletes. The validity and safety of proposed ergogenic aids are also explored. This course will evaluate the role of nutrition and supplementation vis-à-vis exercise. Topics include: fat, carbohydrate, protein, vitamin, mineral and water needs of the active person; energy metabolism; nutritional and body composition issues; nutritional concerns for special groups; sports supplements; body composition issues. Prerequisites: An undergraduate exercise physiology class.

APK 6172C  Cardiac Electrophysiology  
3 sh (may not be repeated for credit)  
This course is designed to instruct students in the acquisition and interpretation of resting and exercise, normal and abnormal electrocardiograms. This course will acquaint students in identifying several supraventricular and ventricular dysrhythmias as well as the procedures for exercise testing and prescription in healthy and diseased populations.
**ARA-Arabic Language Courses**

**ARA 1120C  Beginning Arabic and Language Culture I**
3 sh (may not be repeated for credit)

Designed for students with no experience in the Arabic language to develop knowledge through listening, speaking, reading, and writing Modern Standard Arabic. Focuses primarily on cultural understanding of the Arabic world, and basic Arabic language pronunciation, comprehension, communication, and grammar. In addition to the scheduled activities, students are required to complete weekly laboratory assignments.

**ARA 1121C  Beginning Arabic and Language Culture II**
4 sh (may not be repeated for credit)

Prerequisite: ARA 1120C

Continuation of ARA 1120C emphasizing listening and speaking skills with continued practice in reading and writing. Basic grammatical structures will be reviewed and new grammar introduced. The cultural component consists of in-depth considerations of issues in the Arabic world.

**ARA 2200C  Intermediate Arabic Language and Culture I**
4 sh (may not be repeated for credit)

Prerequisite: ARA 1121C

Continuation of ARA 1101C with increased complexity of grammatical constructions, greater emphasis on reading and writing and increased use of authentic materials. Some of the cultural information will be given in Arabic.

**ARE-Art Education Courses**

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

**ARE 4316C  Special Methods in Art Education**
4 sh (may be repeated for up to 8 sh of credit)

Studio activity incorporating contemporary concepts in art education, instructional and resource materials, evaluation and development. Curriculum development and implementation into the concurrent practicum. Individual criticism, class discussion and classroom observation and participation in the public schools. (8hrs. observation and 8hrs. participation). Permission is required. Material and Supply fee will be assessed.

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

**ARE 4940  Art Education Internship**
6-12 sh (may not be repeated for credit)

Capstone course of the Art Education Specialization. Student elects an elementary school setting, a secondary art classroom or both. All internships are limited to Escambia and Santa Rosa counties. Credit hours may vary, depending on the length of the internship. Students who select the full 12-hour option should not enroll in additional coursework, or pursue employment during the Art Internship experience. Graded on Satisfactory / Unsatisfactory basis only. Permission is required.

**ARH-Art History Courses**

**ARH 1000  Art Appreciation**
3 sh (may not be repeated for credit)

Surveys the key monuments of Western art and architecture from the upper Paleolithic period to the modern era. Not open to art majors. Credit may not be received in both ARH1000 and ARH1010. Meets General Education requirement in Humanities. Meets Multicultural Requirement.

**ARH 2050  Western Survey I: Prehistory to the Medieval Period**
3 sh (may not be repeated for credit)

Analyzes the western aesthetic heritage within its cultural context from the birth of art through the Medieval period. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

**ARH 2051  Western Survey II: Renaissance to Contemporary**
3 sh (may not be repeated for credit)

Analyzes the Western aesthetic heritage within its cultural context from the fifteenth century to the present. Required of all art majors. Satisfies the lower division requirement, ARH 1000. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

**ARH 3590  Non-Western Art**
3 sh (may not be repeated for credit)

The changing interpretations of non western art will be examined in the context of contemporary opinion. Emphasis will be placed on the arts of Asia, Africa, Oceania, and the Americas. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

**ARH 3621  American Art**
3 sh (may not be repeated for credit)

A comprehensive survey of American painting, sculpture, and architecture from the seventeenth century to the third quarter of the twentieth century. Meets Gordon Rule Writing Requirement.

* This course may be taken prior to or during the same term.
ARH 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

ARH 4150  Etruscan and Roman Art and Architecture
3 sh (may not be repeated for credit)
Prerequisite: ARH 1010 OR ARH 2050
Covers the development of ancient art and architecture during both the Etruscan and Roman periods. Meets Gordon Rule Writing Requirement.

ARH 4302  Late Renaissance Art in Italy
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051
Examines the achievements of Italian artists and architects during the Cinquecento, including the art of Leonardo, Michelangelo, Raphael, Titian, Bramante and other noted masters. Offered concurrently with ARH 5314; graduate students will be assigned additional work. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 4305  Early Italian Renaissance Art
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051
Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 5315; graduate students will be assigned additional work. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 4412  The Age of Revolution to Romanticism
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051

ARH 4450  Modern Art: 1850-1980
3 sh (may not be repeated for credit)
Ideas and styles which shaped the course of avant-garde art from Realism to 1980. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 4470  Contemporary Art
3 sh (may not be repeated for credit)
ARH 5836 Museum and Gallery Studies
3 sh (may not be repeated for credit)
Examines in depth the theoretical and practical aspects of museum/gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 4830C; graduate students will be assigned additional work. Permission is required.

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

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

ART- Art Courses
ART 1015C Exploring Artistic Vision
3 sh (may not be repeated for credit)
Challenges the student to explore alternative modes of perception and interpretation, through lectures, discussion, and hands-on application. Material and Supply fee will be assessed. Meets General Education requirement in Humanities.

ART 1300C Drawing I - Fundamentals
3 sh (may not be repeated for credit)
Students will study several media and how to use them. Instruction in drawing still life, landscapes and other objects/subjects provided. Students develop perception of proportions along with black/white media compositional concepts. Invites all students. Material and supply fee will be assessed.

ART 1301C Drawing II - Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C
Continuation and further development of the studies in ART 1300C. Material and supply fee will be assessed.

ART 2203C 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 2201C Fundamentals of Sculpture
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2203C
Course explores a wide range of contemporary sculpture, and familiarizes students with current genres and issues. Assignments develop important foundational skills in 3-D design, construction and materials, while challenging the mind with compelling concepts. Material and Supply Fee will be assessed.

ART 2500C Painting I - Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 2201C
Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects/subjects. Some materials supplied. Primarily an introductory painting course for art majors. Credit may not be earned in both ART 2510C and ART 2500C. Material and supply fee will be assessed.

ART 2602C Introduction to Digital Studio Practice
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 2201C
A prerequisite for all courses in the Digital Practice Studio. Students gain a working knowledge of Apple Macintosh OS, are introduced to the basics of Adobe Photoshop and exposed to the myriad of programs and equipment available in the Department of Art Mac Lab. Material and Supply Fee will be assessed.

ART 2701C Fundamentals of Sculpture
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C
Course explores a wide range of contemporary sculpture, and familiarizes students with current genres and issues. Assignments develop important foundational skills in 3-D design, construction and materials, while challenging the mind with compelling concepts. Material and Supply Fee will be assessed.

ART 2821 Art and Visual Culture Today
3 sh (may not be repeated for credit)
Examines the cross-fertilization of visual forms via various media from painting and photography to film and advertising. Investigates social practices and institutions that produce images, and the power of images to shape our opinions and beliefs. Also addresses theories about modes of seeing. Meets General Education requirement in Humanities.

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

ART 3213C Advanced Ideas and Concepts
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C
A personal and group exploration of the artistic process, which harnesses the skills developed in the foundation art and media-based course to expand the creative potential. For advanced art majors and all BFA candidates in their junior year. Material and Supply fee will be assessed.

ART 3312C Drawing III: The Figure
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C
Requires essential education in drawing the human figure, whose accurate visualization remains a vital component of all artistic media and practice. Builds on the foundation art courses in drawing and two dimensional-design, which are necessary prerequisites. Material and Supply Fee will be assessed.
ART 3313C  Drawing for Non-Majors
3 sh (may not be repeated for credit)
Drawing for Non-Majors is for beginning artists who want to improve their drawing skills. Emphasizes composition, line, proportion, perspective, value, shading, and introduces color. Students will explore the technical handling of different types of materials through exercises and finished drawings. Material and Supply fee will be assessed.

ART 3442C  Advanced Printmaking: Intaglio
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C
Discussion and exploration into a variety of printmaking techniques unique to the intaglio process. The philosophical and functional aspects of the course will be cultivated. Material and Supply Fee will be assessed.

ART 3504C  Painting II-Intermediate
3 sh (may not be repeated for credit)
Prerequisite: ART 1301C AND ART 2500C
Includes fundamentals review. Develops individuality. Uses observational and conceptual experiences / project. Stresses understanding / perceiving color, using media and techniques appropriate to the student's personal development. Primarily for art majors. Credit may not be earned in both ART 3530C and ART 3504C. Material and Supply Fee will be assessed.

ART 3505C  Painting III-Advanced
3 sh (may not be repeated for credit)
Prerequisite: ART 3504C
Individual development in media, technique and concept will be stressed. Possibilities of painting other than easel painting will be presented. Investigation and experimentation responding to situations and projects is required. Credit cannot be received for both ART3505C and ART 3405C.

ART 3507C  Painting for Non-Majors
3 sh (may not be repeated for credit)
Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects / subjects. Some materials supplied. Primarily an introductory painting for majors outside of art. Invites all students. Material and Supply Fee will be assessed. Credit may not be received in both ART 3507C and ART 3500C.

ART 3613C  Digital Multimedia
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ART 2602C
Issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, emerging technology, installation, programming and / or robotics to be determined by instructor. Students work both individually and collaboratively on projects that can involve video, space, time, objects, film, robotics, programming, or any other appropriate media. Material and Supply Fee will be assessed.

ART 3618C  Introduction to Web-based Art
3 sh (may not be repeated for credit)
Prerequisite: ART 2602C
An introduction to the Internet as a platform for fine art practice. A study of the history of web-based interactive artworks, contemporary concepts and issues in interactive art are explored through regular critiques, readings, and screenings. Students will produce and critique artworks using HTML, scripting, and software-based site production for the web. Material and Supply Fee will be assessed. Credit may not be received in both ART 3618C and ART 4618C.

ART 3630C  Artist's Video
3 sh (may be repeated for up to 9 sh of credit)
An introduction to digital video using Final Cut Pro, iMovie, and After Effects. Focuses on video as an art medium, the history of video art and looking at examples from key artists of our time. Students must purchase a flash drive or a firewall external hard drive of at least 40GB for use in this class. Material and Supply Fee will be assessed.

ART 3660C  Digital Photo Exploration
3 sh (may not be repeated for credit)
Prerequisite: ART 2602C
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 New Genres
3 sh (may not be repeated for credit)
Prerequisite: ART 2701C
Reorganizes the open-ended nature of "sculpture" as a category in art practice today. Moves beyond the conventional definition of sculpture as concerned with volume and mass in space. Topics include how art is responsive to its context, and the issue of authorship, process, and vulnerability will be explored. Material and Supply Fee will be assessed.

ART 3737C  Advanced Sculpture: Non-Place
3 sh (may not be repeated for credit)
Prerequisite: ART 2701C
Theory-based studio course that addresses anthropologist Marc Auge's concept of the Non-Place. Course will examine what makes a space a non-place. Students will be challenged to think about the ways in which various kinds of art, architecture, and design can transform our everyday experiences of non-places into places that inspire. Material and Supply Fee will be assessed. Permission is required.
ART 3739C Advanced Sculpture: Site Specific Installation  
3 sh (may not be repeated for credit)  
Prerequisite: ART 2701C  
Course will examine strategies for work on site, gaining an understanding of the complex intersection of the social, cultural, built, and natural environment that are essential to the creation of an artist's intention, independently or in collaboration with others, in and out of the art world. Material and Supply Fee will be assessed.  
ART 3760C Ceramics  
3 sh (may not be repeated for credit)  
Variety of hand-forming processes including throwing on the potter's wheel. Deals with basic glazing and firing techniques. Invites all students. Material and Supply Fee will be assessed.  
ART 3762C Ceramics: Wheelthrowing  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3760C  
Intermediate course in throwing techniques. Deals with clay in terms of functional as well as sculptural considerations. Covers a broad range of technical information. Material and supply fee will be assessed.  
ART 3769C Sculptural Ceramics  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 2203C AND ART 3760C  
Designed to encompass all skill levels from beginning to advanced. Work will be focused on using the clay body and glazes to create non-utilitarian works of art. Wheel throwing, coil building and slab building methods will be employed as needed to realize this goal. The main firing method will be cone 10 gas firing to create long-lasting stoneware pieces. Material and Supply Fee will be assessed.  
ART 3827C Conceptual Research and Development  
3 sh (may not be repeated for credit)  
Course engages art majors as leaders in the creation of cultural products for a fabricated society, one whose structure bears an intended resemblance to today's society. Students learn to lead group discussions and activities, culminating in a public exhibition of the culture's "artifacts".  
ART 3905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
ART 3930 Special Topics in Painting and Drawing  
1-9 sh (may be repeated for up to 27 sh of credit)  
Unique topics concerning painting and drawing. Students should have background of fundamentals in painting and/or drawing. Assignments will vary.  
ART 4161C New and Mixed Media: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3213C  
Focused research in new and mixed media with attention to the development of a personal artistic statement. For advanced upper-level students only. May be designated a capstone experience. Permission is required. Material and Supply fee will be assessed.  
ART 4320C Painting IV - Advanced  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3312C  
While there is a continuation of the development of many of the concepts of drawing from ART 3312C, this course is dedicated to the study of life drawing concepts. The human figure will be the primary subject matter. Extensive experimentation and exploration of drawing media use in relation to the figure will be stressed. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both ART 4322C and ART 4320C.  
ART 4333C Drawing V - Advanced  
3 sh (may not be repeated for credit)  
Prerequisite: ART 4332C  
Use of classroom / studio situation to direct the student towards independent study. Student will be required to participate in the structuring of projects and experiences that demand individual investigation and development. Material and supply fee will be assessed. Credit may not be earned in both ART 4332C and ART 4333C.  
ART 4386C Drawing: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Topics tailored to the advanced drawing student's personal creative exploration. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.  
ART 4461C Printmaking: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 2400C AND ART 3442C  
Focused research in printmaking with attention to the development of a personal artistic statement. For advanced upper-level students only. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.  
ART 4506C Painting IV-Advanced  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3505C  
Use of the classroom / studio to direct the student in independent study. Students will be required to initiate the structuring of projects and experiences and to pursue them with individual development and investigation.  
ART 4520C Painting: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Unique topics concerning painting for the upper level or advanced student. Students should have an extensive background in the fundamentals of painting, drawing, and design, as well as an advanced knowledge of ideas / concepts in contemporary painting. May be designated a capstone experience.  
ART 4619C Advanced Digital Multimedia  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3613C  
Advanced issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, installation, programming and/or robotics to be determined by instructor. Students work both individually and in collaboration on projects that can involve video, sound, space, time, objects, film, robotics, programming or any other appropriate media. Material and Supply Fee will be assessed.
ART 4632C  Digital Design Studio Senior Project  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3618C  
Designed for seniors in the Graphic Design BA and Digital Art BFA programs pursuing self-initiated and self-directed projects. Projects may include the development of a single (or sequential) large-scale artwork, the further development of projects begun at the lower level for inclusion in the senior portfolio, and/or design and development of the senior exit show and/or senior design portfolio. Students' proposals must be approved by the instructor at least two weeks before the start of the semester. May be designated a capstone experience. Permission is required. Material and Supply Fee will be assessed.

ART 4633C  Interactive Electronic Art  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 2602C  
An exploration of the development of interactive objects and environments for artists and designers. Issues addressed include accessibility, usability, interface, and information design. A greater emphasis on prototyping techniques and software best suited to the contemporary marketplace.

ART 4712C  Sculpture: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Focused research into advanced specialized sculptural processes not normally covered within the normal sculpture course offerings. Processes covered are dependent upon direction of work. Contemporary art concepts are an integral part of this class. For advanced upper-level students only. May be designated a capstone course. Material Supply fee will be assessed.

ART 4787C  Ceramics: Personal Directions  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3764C  
Design and the development of individual expression in clay. Student has a choice of forming techniques. Covers advanced firing and glazing techniques. Material and supply fee will be assessed.

ART 4800  Portfolio  
3 sh (may not be repeated for credit)  
Provides the information, support, and technical ability needed to build a strong portfolio and prepare applications to graduate schools, residencies, and internships. Explains how to professionally enter the contemporary art market. Open to all art majors, but required of BFA students.

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

ART 4936C  BFA Professional Seminar I  
1 sh (may not be repeated for credit)  
Prerequisite: ART 4936C  
This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Professional Seminar I and BFA Professional Seminar II in regard to key critical terms and topics widely used and discussed in Art practice and theory. The course also provides a guided inquiry into each student's own art practice. Prerequisites: Departmental permission required.

ART 4937C  BFA Professional Seminar II  
1 sh (may not be repeated for credit)  
Prerequisite: ART 4936C  
This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Professional Seminar I and BFA Professional Seminar II in regard to key critical terms and topics widely used and discussed in Art practice and theory. The course also provides a guided inquiry into each student's own art practice.

ART 4938C  BFA Professional Seminar III  
1 sh (may not be repeated for credit)  
Prerequisite: ART 4937C  
This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Professional Seminar I and BFA Professional Seminar II in regard to key critical terms and topics widely used and discussed in Art practice and theory. The course also provides a guided inquiry into each student's own art practice.

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

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

ASH-Asian History Courses

ASL-American Sign Language Courses

ASL 1140C  American Sign Language I  
4 sh (may not be repeated for credit)  
Designed for students with no knowledge of ASL. Lays a foundation for ASL concepts and cultural understanding in formal and information contexts. One hour of lab work per week is required.

AST-Astronomy Courses

AST 1002  Descriptive Astronomy  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 1105 OR MAC 1114  
Introductory astronomy. Basic astronomical concepts; gravitation and other cosmic forces; planets, moons, and other components of the solar system; nature and evolution of the sun and of other stars; structure of galaxies and of the universe as a whole. Credit may not be received in both AST1002 and AST3033. Meets General Education requirement in Natural Sciences.

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

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

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

ATR 2000  Basic Care and Prevention Principles of Athletic Training  
3 sh (may not be repeated for credit) 
Designed to provide an overview of proper roles and responsibilities of the National Athletic Trainers' Association Board of Certification (NATABOC), Certified Athletic Trainer (ATC) in providing quality health care to the physically active individual, as well as other health care professionals that comprise the sports medicine team. In addition, specific skills related to athletic health care will be addressed. A grade of "B" or better is required. Credit may not be earned in both PET 2603, ATR 2000 and PET 2604.

ATR 2010  Advanced Prevention and Care of Injuries in Health, Leisure, and Sports  
3 sh (may not be repeated for credit) 
Fitness and health, prevention and care of injuries, and restoration and rehabilitation of the injured. Standard first aid, anatomy and physiology are required.

ATR 3104  Protective Methods in Sports Medicine  
3 sh (may not be repeated for credit) 
Principles in the selection, fabrication, and application of athletic equipment, orthotics, protective taping and bracing, and splints that are commonly used in various athletic training settings. Additionally, selection and application of selected emergency medical equipment and ambulation techniques/equipment will be addressed. Material and supply fee will be assessed. Permission is required.

ATR 3132  Functional Kinesiology  
3 sh (may not be repeated for credit) 
Prerequisite: BSC 1085/L 
Provides an in-depth, hands-on approach to learning the human skeletal and muscular anatomy and how it relates to motion and mechanism of injury, muscle origins, insertions, and actions will be learned through palpation.

ATR 3212  Evaluation Techniques of Athletic Injuries I  
3 sh (may not be repeated for credit) 
Prerequisite: ATR 2010 
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis. Credit may not be received in both APK 4305, ATR 3212 and PET 4609.

ATR 3302  Therapeutic Modalities in Athletic Training  
3 sh (may not be repeated for credit) 
Prerequisite: ATR 2010 
Co-requisite: ATR 3302L 
Principles and proper use of therapeutic modalities. Topics include indication, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Permission is required.

ATR 3302L  Therapeutic Modalities in Athletic Training Laboratory  
1 sh (may not be repeated for credit) 
Prerequisite: PET 2622 
Co-requisite: ATR 3302 
Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries.

ATR 3403  Applied Management in Athletic Training  
3 sh (may not be repeated for credit) 
Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications. Credit may not be earned in both PET 3484, ATR 3512 and PET 3660.

ATR 3512  Management Strategies in Athletic Training  
3 sh (may not be repeated for credit) 
Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications. Credit may not be earned in both PET 3484, ATR 3512 and PET 3660.

ATR 3812  Athletic Training Clinical I  
3 sh (may not be repeated for credit) 
Prerequisite: ATR 2000 AND BSC 1085/L 
Students will refine many of the athletic training skills which were introduced during other courses. These include injury surveillance, implementation of OSHA standards, pre-participation exams, environment illness, environmental illness prevention, etiology and prevention guidelines associated with the leading causes of sudden death during physical activity, emergency preparedness, and communication and education of coaches, parents, and athletes. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 3822  Athletic Training Clinical II  
3 sh (may not be repeated for credit) 
Prerequisite: ATR 3812 
Students will refine many of the athletic training skills which were introduced during other courses. These include using protective equipment and prophylactic procedures, emergency assessment procedures, and perform a comprehensive clinical evaluation on the spine and lower extremities. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4213  Evaluation Techniques of Athletic Injuries II  
3 sh (may not be repeated for credit) 
Prerequisite: ATR 3212 AND PET 4609 
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the upper extremity and neck, as well as analysis of the throwing arm.

ATR 4314  Rehabilitation of Athletic Injuries  
3 sh (may not be repeated for credit) 
Prerequisite: ATR 2010 
Co-requisite: ATR 4314L 
Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.
ATR 4314L  Rehabilitation of Athletic Injuries Laboratory
1 sh (may not be repeated for credit)
Prerequisite: ATR 2010
Co-requisite: ATR 4314
Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

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

ATR 4432  General Medical Conditions
2 sh (may not be repeated for credit)
Prerequisite: ATR 3212
A specialized course dealing with the pathology, signs and symptoms, and management/treatment of selected general medical conditions affecting the physically active individual.

ATR 4832  Athletic Training Clinical III
3 sh (may not be repeated for credit)
Prerequisite: ATR 3822
Students will refine many of the athletic training skills which were introduced during other courses. These include diagnostic techniques, assess and interpret clinical findings based on cardiovascular function, pulmonary functions, gastrointestinal function, as well as other body areas. Students will also improve skills in educating patients including home care, expanding rehabilitation skills, and perform comprehensive evaluations on upper extremities, the head, neck and thorax. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4842  Athletic Training Clinical IV
3 sh (may not be repeated for credit)
Prerequisite: ATR 4832
Students will refine many of the athletic training skills which were introduced during other courses. These include evidence based practices, general nutrition concepts, disordered eating intervention, drug use intervention, use clinical reasoning skills, perform a comprehensive clinical exam on all body parts and systems, psychological interventions, and establish a health baseline for patients. Clinical experiences are obtained in various athletic training settings, including the university’s athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4902  Directed Study
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: ATR 3212 AND ATR 3302 AND ATR 4213 AND ATR 4314 AND PET 4609
The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required. Credit may not be received in both APK 4113, ATR 4933 and PET 4621.

ATR 4940  Athletic Training Internship
3-6 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ATR 3822
Students will develop their knowledge, skills and attitudes by providing direct care of patients in an immersive setting and under the direct supervision of a certified athletic trainer; understand the medical and ethical aspects of practicing Athletic Training.

ATR 4933  Senior Seminar in Athletic Training
3 sh (may not be repeated for credit)
Prerequisite: ATR 3212 AND ATR 3302 AND ATR 4213 AND ATR 4314 AND PET 4609
Students will develop their knowledge, skills and attitudes by providing direct care of patients in an immersive setting and under the direct supervision of a certified athletic trainer; understand the medical and ethical aspects of practicing Athletic Training.

BCH-Biochem (Biophysics) Courses

BCH 3033  Biochemistry I
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND CHM 2210
A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they are derived. Conformational properties of biomolecules, enzyme kinetics and mechanisms, allosterism and cooperativity are surveyed. Material and supply fee will be assessed for corresponding lab.

BCH 3033L  Biochemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: BCH 3033*
A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they are derived. Conformational properties of biomolecules, enzyme kinetics, and mechanisms, allosterism and cooperativity are surveyed. Material and Supply Fee will be assessed.

BCH 3034  Biochemistry II
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033
This course builds on the knowledge gained in BCH 3033 or CHM 2210 / CHM 2211 and deals with the biochemical properties of biological membranes and the anaerobic and catabolic pathways of the major biological macromolecules.

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

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

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

* This course may be taken prior to or during the same term.
BCN-Building Construction Courses

BCN 2272  Blueprint Reading
3 sh (may not be repeated for credit)
Provides students with knowledge, skills and abilities to accurately interpret commercial construction documents. Addresses standards for construction drawings, drawing quality, drafting techniques and drawing literacy and information retrieval.

BCN 2405  Statics and Strength of Materials
3 sh (may not be repeated for credit)
Prerequisite: MAC 1114 AND PHY 2053
Analyze strength of structural elements for buildings, bridges and specialized structures that utilize steel and timber and concrete. Covers the statics of particles, rigid bodies, friction, strengths of materials such as wood, steel and concrete.

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

BCN 3224  Construction Materials and Method
3 sh (may not be repeated for credit)
Explores changing materials, methods and technologies in construction. Focuses on the most common and practical building materials and methods to provide students with knowledge, skills and abilities related to the means and methods of construction.

BCN 3281C  Construction Survey and Building Layout
3 sh (may not be repeated for credit)
Prerequisite: MAC 1114
Application of surveying skills required in the field of construction, including building layout, indirect determination of elevation and distance, referencing, establishment of grade, and topographic mapping. Instruments used will include transit and automatic level. Credit cannot be received for both BCN 3281C and BCN 3282C.

BCN 3561  Construction Mechanics
3 sh (may not be repeated for credit)
Introduction to building systems. Areas of study included in this course are heating and cooling, plumbing, and electrical systems.

BCN 3590  Sustainable Construction
3 sh (may not be repeated for credit)
Provides an overview of Sustainable Construction, the basic philosophical premises and concepts, the cutting edge in design and construction, methods of assessment, project delivery, economics, and green building evaluation systems, such as LEED and Green Globes. Students will learn the importance of sustainable construction and the emergence of green building concepts in the construction industry. Focuses on concepts and learning to facilitate application in real-world scenarios.

BCN 3731  Construction Safety
3 sh (may not be repeated for credit)
Addresses the principles of safety in construction and project management. Focuses on the OSHA 29 CFR 1926 Construction Industry Regulations, construction site risk aversion, insurance, site specific paperwork and documentation, maintenance of traffic, cost, scheduling and job hazard analysis.

BCN 3762  Building Codes
3 sh (may not be repeated for credit)
Covers the general requirements of the Florida Building Code for commercial construction, based on occupancy classification and construction type. Provides information about code agencies, organizations and resources related to the building construction approval process.

BCN 3767  CDT Prep Course: Construction Documents
3 sh (may not be repeated for credit)
Preparation for the National Construction Specification Exam for Construction Document Technician certification. Material and Supply fee will be assessed.

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

BCN 4258C  Building Information Modeling
3 sh (may not be repeated for credit)
Prerequisite: BCN 2272 AND BCN 3224
Introduction to 3D Modeling software for Building Information Modeling (BIM). Activities are designed to provide in-depth theory with the use of BIM information and the impact on construction contracts and processes. There is a downloadable free BIM program that will be used but the student must have their own computer to load the program and use it for this course.

BCN 4431  Structures I
3 sh (may not be repeated for credit)
Prerequisite: BCN 2405
Introduction to structural design using wood and steel. Structural behavior and properties of building materials will be covered as they apply to stresses in beams, columns, diaphragms, and structural connections.

BCN 4461  Structures II
3 sh (may not be repeated for credit)
Prerequisite: BCN 2405
Introduction to structural design of foundations and reinforced concrete elements. Structural behavior and properties of soils will be investigated as they apply to building foundations. Properties of reinforced concrete will be covered as they apply to stresses in beams, columns, and foundations.

BCN 4564  Construction Mechanics II
3 sh (may not be repeated for credit)
Prerequisite: BCN 3561
Introduction to electricity, power supply and distribution, communications, life safety, and security systems, electrical design and wiring, light and lighting, lighting equipment and systems, and calculations of illumination.

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)
Provides fundamental concepts of scheduling techniques, applications and software packages. Students will be provided hands on experience with appropriate software.
BCN 4773  Construction Finance and Controls
3 sh (may not be repeated for credit)
Prerequisite: MAC 2233 OR MAC 2311
Examines application of construction ownership and business management, and the principles and techniques needed for making economic decisions about building systems and subsystems. Covers various aspects of construction management, financing, risk management, labor law, and worker’s compensation. Basic accounting practices are also covered. Students will also explore decision making techniques pertaining to cost and value engineering. Emphasis will be placed on the time-value of money and equivalence, replacement analysis, uncertainty and life cycle costing.

BCN 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
BCN 4940  Construction Internship/Senior Project
3 sh (may not be repeated for credit)
Field-based experience where students work in real-world situations with industry professionals. Students unable to locate an internship complete a complex problem solving project under the direction of the instructor. Permission is required.

BME-Biomedical Engineering Courses

BME 4007  Biomechanics
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500
Mechanics of the musculoskeletal system with an emphasis on the control of human movement. Topics include kinetics, kinematics, anthropometry, mechanical work, energy and power.

BOT-Botany Courses

BOT 2010  General Botany
3 sh (may not be repeated for credit)
Co-requisite: BOT 2010L
Introduction to the basic concepts which apply to all plants including cell theory, biosynthetic processes, physiological response, development and reproduction, as well as consideration of plant morphology, systematics and evolution. Material and supply fee will be assessed for corresponding lab. Meets General Education requirement in Natural Sciences.

BOT 2010L  General Botany lab
1 sh (may not be repeated for credit)
Co-requisite: BOT 2010

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

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

BOT 4374  Plant Developmental Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4374L
Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5376; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 4374L  Plant Developmental Biology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: BOT 4374
Is designed to accompany BOT 4374. Features experiments that demonstrate and reinforce developmental processes presented in the lecture. Topics include cell division and elongation, phototropism, gravitropism, photoperiodism, seed germination, senescence, and plant tissue culture. Offered concurrently with BOT 5376L; graduate students will be assigned additional work. Material and supply fee will be assessed.

BOT 4404C  Aquatic Botany
4 sh (may not be repeated for credit)
Morphology, taxonomy, physiology and ecology of aquatic plants, especially freshwater and marine algae. Material and supply fee will be assessed for corresponding lab.

BOT 4503  Plant Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4503L
Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5506; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 4503L  Plant Physiology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: BOT 4503
Designed to accompany BOT 4503 and features experiments that demonstrate and reinforce physiological and biochemical principles presented in the lecture. Topics include plant nutrition, enzymology, photosynthesis, respiration, transpiration, plant hormones, and seed germination. Material and supply fee will be assessed. Offered concurrently with BOT 5506L; graduate students will be assigned additional work.
BOT 4734  Plant Biotechnology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4734L

Provides students with a foundation in the molecular biology and
genetic manipulation of plants. Model plant systems are used to
illustrate current concepts and methodologies used in a modern
plant biotechnology laboratory. Case studies illustrate commercial
applications of products derived from plant biotechnology and
introduce students to ethical issues arising from the use of plant
biotechnology. The accompanying laboratory provides students with
the opportunity to perform basic manipulations required in a plant
biotechnology laboratory and reinforces the principles presented in
lecture. Material and supply fee will be assessed for corresponding
lab. Offered concurrently with BOT 5735; graduate students will be
assigned additional work.

BOT 4734L  Plant Biotechnology Lab
1 sh (may not be repeated for credit)
Co-requisite: BOT 4734

Corresponding Lab for Plant Biotechnology.

BOT 4850  Medicinal Botany
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Pharmacognosy, the knowledge of drugs, grew out of the old herbal
remedies passed down by tradition. Plant natural products continue
to form the basis of many new therapeutic treatments in modern and
alternative medicines. Provides a survey of phytochemicals that have
proven useful for improving human health beyond the basic use of
plants as a food source. Offered concurrently with BOT 5852 graduate
students will be assigned additional work.

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

BOT 5376  Plant Developmental Biology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5376L

Examines the succession of changes that occurs in plants as they
progress from a simple embryo to a complex mature plant and
through senescence. Plant growth, differentiation, organogenesis,
morphogenesis, and environmental influences such as light,
temperature, and gravity will be explored emphasizing the cellular
and molecular events that control developmental processes.
The accompanying laboratory features experiments selected to
demonstrate and reinforce important principles discussed in lecture.
Offered concurrently with BOT 4374; graduate students will be
assigned additional work. Material and supply fee will be assessed to
the corresponding lab.

BOT 5376L  Plant Developmental Biology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: BOT 5376

Is designed to accompany BOT 5376. Features experiments that
demonstrate and reinforce developmental processes presented in
the lecture. Topics include cell division and elongation, phototropism,
gravitropism, photoperiodism, seed germination, senescence, and
plant tissue culture. Offered concurrently with BOT 4374L; graduate
students will be assigned additional work. Material and supply fee will
be assessed.

BOT 5506  Plant Physiology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5506L

Examines the basic physiological and biochemical processes that
determine and govern plant function. Topics include photosynthesis,
mitochondrial metabolism, energetics, transport systems, water
relations, cell walls, phytohormones, gene expression, and selected
aspects of secondary plant metabolism. The accompanying laboratory
features experiments selected to demonstrate and reinforce important
principles discussed in lecture. Offered concurrently with BOT 4503;
graduate students will be assigned additional work. Material and
supply fee will be assessed for corresponding lab.

BOT 5506L  Plant Physiology Lab
1 sh (may not be repeated for credit)
Co-requisite: BOT 5506

Corresponding lab for Plant Physiology.

BOT 5735  Plant Biotechnology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5735L

Provides students with a foundation in the molecular biology and
 genetic manipulation of plants. Model plant systems are used to
 illustrate current concepts and methodologies used in a modern
 plant biotechnology laboratory. Case studies illustrate commercial
 applications of products derived from plant biotechnology and
 introduce students to ethical issues arising from the use of plant
 biotechnology. The accompanying laboratory provides students with
 the opportunity to perform basic manipulations required in a plant
 biotechnology laboratory and re-enforces the principles presented in
 lecture. A material and supply fee will be assessed for corresponding
 lab. Offered concurrently with BOT 4734; graduate students will be
 assigned additional work.

BOT 5735L  Plant Biotechnology Lab
1 sh (may not be repeated for credit)
Co-requisite: BOT 5735

Corresponding lab for Plant Biotechnology.

BOT 5852  Medicinal Botany
3 sh (may not be repeated for credit)
Pharmacognosy, the knowledge of drugs, grew out of the old herbal
remedies passed down by tradition. Plant natural products continue
to form the basis of many new therapeutic treatments in modern and
alternative medicines. Provides a survey of phytochemicals that have
proven useful for improving human health beyond the basic use of
plants as a food source. Offered concurrently with BOT 4850; graduate
students will be assigned additional work.

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

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

BSC-Biological Sciences Courses

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

BSC 1050  Fundamentals of Ecology
3 sh (may not be repeated for credit)
Intended for non-majors who have an interest in nature and how they interact with nature. Gives general overview of ecological principles and how these principles influence the outside world around us. Imbedded are several activities that are associated with each chapter. The activities were developed so that the student will gain a respect for ecology as well as show how ecological principles affect your daily life. Meets General Education requirement in Natural Sciences.

BSC 1085  Anatomy and Physiology I
3 sh (may not be repeated for credit)
General introduction to form and function of the human body. Review of basic anatomical / physiological attributes of integumentary, skeletal, muscular, nervous and sensory organ systems. Designed for students with little or no previous anatomy or physiology experience. Lab optional. Meets General Education requirement in Natural Sciences.

BSC 1085L  Anatomy and Physiology I Laboratory
1 sh (may not be repeated for credit)
Optional lab associated with course. Anatomical dissection and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. Material and supply fee will be assessed.

BSC 1086  Anatomy and Physiology II
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085
Continuation of Anatomy and Physiology I. Reviews basic anatomical / physiological attributes of endocrine, cardiopulmonary, digestive, reproductive and immune systems. Lab optional. Meets General Education requirement in Natural Sciences.

BSC 1086L  Anatomy & Physiology II Laboratory
1 sh (may not be repeated for credit)
Optional lab associated with course. Anatomical dissections and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. Material and supply fee will be assessed.

BSC 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

BSC 2010  Biology I
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010L*
Introduction to the cellular processes of living organisms, including subcellular structures, biochemical and genetic regulation of function and growth, reproduction, heredity, and evolution. Material and supply fee will be assessed for the corresponding lab. Meets General Education requirement in Natural Sciences.

BSC 2010L  Biology I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: BSC 2010*
Introduction to the science method, reading, and writing, microscopy, and science measurement. Cellular processes of prokaryotic and eukaryotic organisms, including subcellular structures, biochemical and genetic regulation of function and growth, reproduction, heredity, and evidence of evolution. Material and supply fee will be assessed for this lab.

BSC 2011  Biology II
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2011L*
Explores the diversity of life including bacteria, protists, fungi, plants and animals at the introductory level designed for students starting a major in biology. The course will outline the tree of life in illustrating the evolutionary relationships among organisms. The course will also cover basic functional morphology and physiology at the organismal level, and provide an introduction to ecological interactions at the population and community level. Meets General Education requirement in Natural Sciences.

BSC 2011L  Biology II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2011*
Explores the diversity of life including bacteria, protists, fungi, plants and animals at the introductory level designed for students starting a major in biology. The course will outline the tree of life in illustrating the evolutionary relationships among organisms. The course will also cover basic functional morphology and physiology at the organismal level, and provide an introduction to ecological interactions at the population and community level.

BSC 2311  Introduction to Oceanography and Marine Biology
3 sh (may not be repeated for credit)
An introduction to the chemical, physical and geological features of the world ocean and the major groups of living marine organisms that inhabit it. Physical chemical and biological interrelationships will be emphasized. Credit not granted toward a major in Biology. Meets General Education requirement in Natural Sciences.

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. Material and Supply Fee will be assessed.

BSC 2844  Biology Skills
1 sh (may not be repeated for credit)
A professional development course for students in the Biology and Pre-professional curriculum plan. It will introduce the students to necessary skills for upper division biology courses, including reading and interpretation of scientific publications, scientific writing styles, ethics, and critical thinking.

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

BSC 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
Permission is required.

A health care entity will be met. Students will be expected to invest a.

Clinical experience in select health care locations within the region prior to taking this course.

Prerequisite: Completion of 90 hours of college course work is required

3 sh (may not be repeated for credit)

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

BSC 6002L Contemporary Laboratory Skills
4 sh (may not be repeated for credit)

A review of contemporary laboratory protocols and techniques necessary for the modern biologist to succeed in the professional, academic, or intellectual biology community. Provides students with a theoretical understanding of various techniques, their application, and the opportunity to master basic essential techniques in the laboratory. Topics include good laboratory practices, cell culture techniques, nucleic acid manipulation, macromolecular separation and detection, DNA analysis, chromatographic separations, spectrophotometry, microscopy, and radioisotope usage. Material and Supply Fee will be assessed.
BSC 6840  Professional Development in Biology
3 sh (may not be repeated for credit)
A review of contemporary protocols, techniques, and methods needed
to succeed in the professional, academic, or intellectual biology
community. Topics include 1) organization of the professional and
academic biology environment, 2) reading, interpreting, organizing
and publishing biological literature, 3) biological project development,
presentation, and funding, 4) locating and securing positions in the
biological sciences.

BSC 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
BSC 6941  Internship in Biomedical/Pharmaceutical Industry
6 sh (may not be repeated for credit)
The student will be placed with a regional biotech / biomed /
pharmaceutical company where they will be assigned to a lower or
middle-level administrator and be engaged in the daily conduct of
business in the industry. The industry mentor, in consultation with
the faculty advisor, will assign a specific project to the student which
engages information from one or more of the topics covered in the
Professional Development course which must be completed in the
time allotted. The student will be required to produce a written report
describing their project and the project outcome in which they draw
and defend conclusions and make and defend recommendations. Student performance will be assessed by the industry mentor in
cooperation with the faculty advisor.

BSC 6971  Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is
required.
*  This course may be taken prior to or during the same term.

BTE-Business Teacher Ed Courses

BTE 4401  Special Methods of Teaching Business Education
4 sh (may not be repeated for credit)
Provides opportunities to become proficient in using special methods
and procedural activities in business technology education classes.
Credit may not be received in both BTE 4401 and EVT 4381.

BUL-Business Law Courses

BUL 3130  Legal Environment of Business
3 sh (may not be repeated for credit)
Background of law and legal environment of business, including
administrative, social, political and ethical aspects. Coverage of law
includes contracts, sales under Uniform Commercial Code, negotiable
instruments and personal and real property.

BUL 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
BUL 4244  Commercial Law
3 sh (may not be repeated for credit)
Study of selected topics in law pertaining to business transactions,
business environment and associations, and financial securities. Offered concurrently with BUL 5831; graduate students will be
assigned additional work.

BUL 4514  Intellectual Property Law
3 sh (may not be repeated for credit)
Patents, trademarks, copyrights, and trade secrets are the four building
blocks of a secure Intellectual Property protection plan for a business. This course introduces these topics using classroom discussion,
readings, presentations from local businesses. Students will apply the
concepts in a paper which focuses on intellectual property protection
for an imaginary business. Offered concurrently with BUL 5378. Graduate students will be assigned additional work.

BUL 4602  Legal Fundamentals of Healthcare and Public Health
3 sh (may be repeated for up to 6 sh of credit)
An overview of the laws most affecting the provision of healthcare and
public health practices. The legal basis for government involvement in
the public’s health is examined with an analysis public health authority.
A general overview of the laws controlling the provision of private
sector healthcare including industry and professional regulation,
prohibited payment schemes, Bioethics, end-of-life issues, informed
medical consent, and patient privacy.

BUL 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
BUL 5378  Intellectual Property
3 sh (may not be repeated for credit)
Patents, trademarks, copyrights, and trade secrets are the four building
blocks of a secure Intellectual Property protection plan for a business. This course introduces these topics using classroom discussion,
readings, presentations from local businesses. Students will apply the
concepts in a paper which focuses on intellectual property protection
for an imaginary business. Offered concurrently with BUL 4514. Graduate students will be assigned additional work.

BUL 5831  Commercial Law
3 sh (may not be repeated for credit)
Study of selected topics in law pertaining to business transactions,
business environment and associations, and financial securities. Offered concurrently with BUL 4244; graduate students will be
assigned additional work.

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

CAP-Computer Applications Courses

CAP 4053  AI Programming for Intelligent Environments
3 sh (may not be repeated for credit)
Prerequisite: COP 3530
Introduction to the use of AI methods and programming for the
development of intelligent systems, including game AI systems, robotic
applications, and educational environments. Students will identify an
appropriate AI project topic of interest to them, and work individually or
as teams to design, develop, and evaluate an AI system for that topic.

CAP 4136  Malware Analysis
3 sh (may not be repeated for credit)
Prerequisite: CDA 3101C
This course covers software reverse engineering of executable code
(or malware) to determine its function and affects or to recover the
source code implementation.
CAP 4138  Reverse Software Engineering - Malware Analysis
3 sh (may not be repeated for credit)
Prerequisite: CDA 3101C
This course covers software reverse engineering of executable code (or malware) to determine its function and affects or to recover the source code implementation.

CAP 4601  Artificial Intelligence
3 sh (may not be repeated for credit)
Prerequisite: COP 3411 OR COP 3530
Introduction to Artificial Intelligence principles and techniques. Students will learn about core AI techniques for solving complex problems, including search strategies, knowledge-based techniques, and agent-based systems. Overview of AI topics such as intelligent agents, machine learning, as well as AI applications.

CAP 4710  Computer Graphics and Simulation
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND MAS 3105
This course provides foundational concepts in computer graphics and simulations that enable students to develop new interactive 2D and 3D computer visualizations. Students will be able to develop and evaluate their programs in state of the art computing and virtual reality labs at the School of Science & Engineering.

CAP 4770  Data Mining
3 sh (may not be repeated for credit)
Prerequisite: COP 4710
Exposes students to data mining concepts and techniques and different data mining software. Covers data pre-processing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining, classification algorithms, and cluster analysis. Offered concurrently with CAP 5771; graduate students will be assigned additional work.

CAP 4786  Big Data Analytics
3 sh (may not be repeated for credit)
Prerequisite: ((COP 4710 AND STA 4321)) AND (COP 3530 OR COP 3022)
This course introduces students to the handling of Big Data on Hadoop's MapReduce environment. Advanced Data Mining/Machine learning applications created using Spark.

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

CAP 5600  Introduction to Artificial Intelligence
3 sh (may not be repeated for credit)
Introduction to basic Artificial Intelligence theories and methods for solving complex and difficult problems using computers; goal-oriented procedures, search problems, knowledge representation and machine learning. Topics will include intelligent systems such as expert systems, intelligent agents and robots. Will be conducted within a cognitive science framework.

CAP 5701  Computer Graphics and Simulation
3 sh (may not be repeated for credit)
Prerequisite: COP 3530 AND MAC 2312 AND MAS 3105
This course provides foundational concepts in computer graphics and simulations that enable students to develop new interactive 2D and 3D computer visualizations. Students will be able to develop and evaluate their programs in state of the art computing and virtual reality labs at the School of Science & Engineering.

CAP 5771  Data Mining
3 sh (may not be repeated for credit)
Prerequisite: COP 5725
Exposes students to data mining concepts and techniques and different data mining software. Covers data pre-processing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining, classification algorithms, and cluster analysis. Offered concurrently with CAP 4770.

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

CAP 6722  Data Warehousing
3 sh (may not be repeated for credit)
Prerequisite: COP 5725
The primary focus of this course is on Data Warehousing and its applications to business intelligence. Some areas of concentration are: requirements gathering for data warehousing; data warehouse architecture; dimensional model design for data warehousing; physical database design for data warehousing; extracting, transforming, and loading strategies; introduction to business intelligence; design and development of business intelligence applications; expansion and support of a data warehouse. Prerequisites: COP5725, minimum grade of C.

CAP 6777  Web Data Mining
3 sh (may not be repeated for credit)
Prerequisite: CAP 5771 AND COP 5725
The primary focus of this course is on Web usage mining and its applications to e-commerce and business intelligence. We will consider techniques from machine learning, data mining, text mining, and databases to extract useful knowledge from Web data which could be used for site management, automatic personalization, recommendation, and user profiling. The first half of the course will focus on a detailed overview of the data mining process and techniques, specifically those that are most relevant to Web data mining. The second half will concentrate on the applications of these techniques to Web and e-commerce data, and their use in Web analytics, user profiling and personalization.

CAP 6782C  Big Data Analytics in the Cloud
3 sh (may not be repeated for credit)
Prerequisite: COP 5007 AND COP 5725
This course examines how to perform big data analytics in a cloud environment using currently accepted practices. The course will also examine how to load, query and visualize data in the cloud, along with topics on the architecture, security concerns and cost management in a cloud environment.

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

CBH-Comp Psych Animal Behav Courses

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

CCJ-Crimin Criminal Justice Courses

CCJ 2002  Survey of Crime and Justice
3 sh (may not be repeated for credit)
Provides an introduction to the issues of crime and justice in the United States. Discusses the complexities of studying crime and evaluates the role of various criminal justice subsystems. Meets General Education requirement in Social Sciences.
CCJ 3014 Criminology
3 sh (may not be repeated for credit)
Examines the causes, types, and patterns of crime in society. Major schools of thought and current research are introduced, compared, and contrasted in the study of crime and its social context.

CCJ 3024 Criminal Justice System
3 sh (may not be repeated for credit)
Introductory analysis of the American criminal justice system. Structure, organization and process of the criminal justice system, the roles and responsibilities of criminal justice professionals, and the dynamics of the justice system in a democratic society. Additional focus will be on academic writing, APA formatting, searching and using scholarly references. Meets Gordon Rule Writing Requirement.

CCJ 3060 Ethics and the Justice System
3 sh (may not be repeated for credit)
Identification and analysis of ethical issues in the American justice system.

CCJ 3450 Criminal Justice Management and Organization
3 sh (may not be repeated for credit)
Acquaints student with the basic management processes affecting criminal justice agencies, develops the student's ability to analyze management problems and apply effective interventions to those problems in police departments, courts, and corrections agencies.

CCJ 3553 Family Crime and Violence
3 sh (may not be repeated for credit)
Survey of major issues related to family relationships and criminal activity, including theoretical explanations for family violence, patterns of family violence in the United States, and how family relationships during childhood can affect long-term behavior. This course will help to elucidate some of the most important elements of the connection between family relationships and crime.

CCJ 3654 Drugs, Crime, and Criminal Justice
3 sh (may not be repeated for credit)
Explores the interactions between drugs, crime, and society. Relevant history, theory, and research related to drug use, prevention, rehabilitation, and the drug-crime link will be explored critically. Additionally, this course will examine the pharmacology of drugs and the prevalence of usage. As such, this course aims to provide a foundation for a better understanding of the relationship between drugs, crime, and the criminal justice system.

CCJ 3666 Victimology
3 sh (may not be repeated for credit)
The study of the interrelationships between crime, criminals, victims, and the criminal justice system. Areas of emphasis include victim's rights, restorative justice, as well as the psychological, financial, and medical needs and problems of the victim.

CCJ 3678 Race, Gender, Ethnicity, and Crime
3 sh (may not be repeated for credit)
Analysis of the demographic state of affairs in criminal justice in the United States. Designed to elicit discussion regarding the interrelationships between race, gender, ethnicity, and the criminal justice system. Meets Multicultural Requirement.

CCJ 3691 Sex Offenses and the Offender
3 sh (may not be repeated for credit)
Comprehensive overview of psychological, sociological and legal issues related to sex offenses. Additionally, the sexual offenders and different typologies of the sex offender will be discussed.

CCJ 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
CCJ 4026 Contemporary Issues in Criminal Justice
3 sh (may not be repeated for credit)
Examines the nature and extent of crime in modern Western society. Emphasis placed on issues selected from, but not limited to, emerging patterns of violence, organized crime, white-collar crime, victimless crime, corruption, and those crime strategies deemed appropriate in a democracy.

CCJ 4141 Restorative Justice
3 sh (may not be repeated for credit)
Introduces the philosophy of restorative justice. Students critically analyze and compare retributive justice with restorative justice. Explores various restorative justice methodologies and evaluation of those methodologies. Hands on instruction in the use of restorative practices will be given.

CCJ 4461 Organized Crime
3 sh (may not be repeated for credit)
An exploration of major issues related to organized crime. Topics include historical aspects, theoretical perspectives, and criminal actions commonly associated with organized crime activities.

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. Meets Gordon Rule Writing Requirement.

CCJ 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
CCJ 4931 Special Topics in Criminal Justice
3 sh (may be repeated for up to 18 sh of credit)
The study of special issues in criminal justice. Subject matter will vary each semester to reflect an in-depth study of particular issues (e.g. gangs) or fields of criminology (e.g. corrections and theories of punishment) being examined. This includes grounding course content in criminological theory, as well as related theoretical frameworks.
CCJ 4939  Criminal Justice Seminar  
3 sh (may not be repeated for credit)  
Prerequisite: (CCJ 3014 AND CCJ 3024 AND CCJ 4700) OR CJC 4010 OR CJE 4110 OR CJL 3510  
This capstone class is a comprehensive and critical review of the criminal justice curriculum with a focus on contemporary issues. This seminar will help students explore and prepare for a career in criminal justice and/or graduate education. Students are provided the opportunity to explore current criminal justice issues and criminal justice careers through an integration of knowledge gained in the criminal justice curriculum. Students will demonstrate oral and written communication skills.

CCJ 4940  Criminal Justice Internship  
1-6 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ((CCJ 3014 AND CCJ 3024 AND CCJ 4700)) AND (CJC 4010 OR CJE 4110 OR CJL 3510)  
Internship in field of criminal justice intended to give field observation and experience. This internship is a cooperative effort between the criminal justice program at the University of West Florida and public or private community agencies. The purpose of the internship is to give students the opportunity to apply their education to actual work situations. The student works under the supervision of an agency professional. A 3 credit hour internship may be used to satisfy the capstone experience in the criminal justice core requirements.

CCJ 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 5689  Race, Ethnicity, Gender, and Criminal Justice  
3 sh (may not be repeated for credit)  
Dissects the pervasive links between crime, justice, race, ethnicity, and gender. Analyzes the challenges posed by rendering justice in a multicultural society.

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

CCJ 6006  Criminal Justice Administration  
3 sh (may not be repeated for credit)  
This course focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. The course includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

CCJ 6008  Criminal Justice Theory  
3 sh (may not be repeated for credit)  
Analyzes the theoretical perspectives associated with the policies, organizations, decisions, and operations of criminal justice systems, agencies, and individuals. Examines classical and contemporary research in criminal justice.

CCJ 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  Offender Rehabilitation and Reentry  
3 sh (may not be repeated for credit)  
Critical analysis of issues related to offender reentry and recidivism, and the rehabilitative ideal of corrections. Restorative justice will also be discussed as a viable alternative offender treatment option. The role victims and community members play in the successful treatment and re-integration of offenders back into society will additionally be examined.

CCJ 6247  Issues in Contemporary Criminal Justice  
3 sh (may not be repeated for credit)  
An in-depth study of issues confronting 21st Century criminal justice systems. Topics include those associated with current events and controversies.

CCJ 6704  Research Methodology  
3 sh (may not be repeated for credit)  
Covers issues related to research methods and data analysis as they are applied in the field of criminal justice and criminology. Explores scientifically acceptable inquiry and how to conduct empirical research in criminology and criminal justice. Evaluates methodological and ethical issues related to crime and criminal justice research.

CCJ 6705  Analysis of Quantitative and Qualitative Data  
3 sh (may not be repeated for credit)  
Prerequisite: CCJ 6704  
Methods and techniques for diagnostics, management, and analysis of criminological and criminal justice data in both quantitative and qualitative nature. Statistical theory and research design issues specific to criminological and criminal justice analyses are covered along with hands-on computer experience using computerized statistical programs such as SPSS.

CCJ 6745  Policing and Society  
3 sh (may not be repeated for credit)  
Analysis of classical and contemporary readings designed to examine the unique position, organization, and challenges of policing a complex society. Also explores the future of policing.

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

CCJ 6910  Criminal Justice Area Paper  
3 sh (may not be repeated for credit)  
Under the direction of the faculty, the student prepares a comprehensive analysis of a topic within criminal justice. The paper will include a critical and comprehensive review of the literature related to the chosen topic. The paper may include a research proposal and/or presentation of research findings.
CCJ 6930  Seminar: Special Topics in Criminal Justice  
3 sh (may be repeated for up to 12 sh of credit)

Designed to provide students with specialized knowledge in a particular field of criminal justice such as juvenile justice/ corrections or on a cutting edge topic of relevance to criminal justice practitioners such as restorative justice or homeland security.

CCJ 6946  Criminal Justice Internship  
3 sh (may not be repeated for credit)

Internship in field of criminology and criminal justice intended to give field observation and experience. This internship is a cooperative effort between the criminal justice program at the University of West Florida and public or private community agencies. The purpose of the internship is to give students the opportunity to apply their education to actual work situations. The student works under the supervision of an agency professional. Course requirements include a research component.

CDA-Computer Design/Archit Courses

CDA 3101  Introduction to Computer Organization  
3 sh (may not be repeated for credit)  
Prerequisite: COT 3100

Introduction to the organization and operation of a digital computer including the internal representation of data and instructions, processor design and execution along with bus and I-O subsystems and assembly language programming.

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

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

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

CEN-Computer Engineering Courses

CEN 3031  Software Engineering I  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3022 OR COP 4331

Preparation of software planning, specifications, design, coding, testing and maintenance. Familiarization with the team approach to large software system development with an emphasis on software process and methodology.

CEN 3032  Software Engineering II  
3 sh (may not be repeated for credit)  
Prerequisite: (COP 4331 OR COP 3022) AND (CEN 3031)

Focus on software design, implementation, and testing. Students will work in teams to develop software systems using the design principles discussed in class.

CEN 4053  Software Engineering Management  
3 sh (may not be repeated for credit)  
Prerequisite: CEN 3032

Reviews concepts and principles related to the management of software engineering projects. Focus is on both heavyweight and lightweight processes.

CEN 4078  Secure Software Development  
3 sh (may not be repeated for credit)  
Prerequisite: (COP 3022 OR COP 4331) AND (COP 3530)

Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles.

CEN 4083  Cloud Computing  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2253 OR COP 4710 OR COP 4610 OR COP 4634 OR COP 4007

An introduction to Infrastructure as a Service (IaaS) Cloud Computing for large applications. Deployment of software to a public or private cloud. Implementation, configuration and analysis of appropriate security controls to protect the deployed application. Offered concurrently with CEN 5096. Graduate students will be assigned additional work.

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)  
Prerequisite: COP 3022* OR COP 4331*

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. Students will discuss issues and tradeoffs in interaction design, propose effective designs, conduct user studies, and evaluate alternative solutions to design problems.

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

CEN 4910  Undergraduate Computer Science Research  
1-4 sh (may be repeated for up to 7 sh of credit)

Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.
CEN 5003 Software Engineering Foundations: Operating Systems and Networks
3 sh (may not be repeated for credit)
Prerequisite: COP 5007
A course in the Software Engineering Foundation Series on principles/concepts of modern operating systems and networks used in developing high-quality software systems. Permission is required.

CEN 5079 Secure Software Development
3 sh (may not be repeated for credit)
Prerequisite: COP 5007
Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles. Prior to taking this course students should have knowledge and skill in software development. Offered concurrently CEN 4078; Graduate students will have additional work.

CEN 5096 Cloud Computing
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016 AND COP 5007 AND COP 5725
An introduction to Infrastructure as a Service (IaaS) Cloud Computing for large applications. Deployment of software to a public or private cloud. Implementation, configuration and analysis of appropriate security controls to protect the deployed application. Research on specific topics in cloud computing and security. Offered concurrently with 4XX1. Graduate students will be assigned additional work.

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

CEN 5915 Graduate Computer Science Research
1-4 sh (may be repeated for up to 2 sh of credit)
Graduate research is conducted with a faculty advisor or mentor. The student’s research project is typically based on the faculty mentor’s research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report is required upon completion of the course. Can be used for research leading to master's thesis. Permission is required.

CEN 6016 Software Engineering Process
3 sh (may not be repeated for credit)
Prerequisite: COP 5007*
CEN6016 is a professional practice course in which the students will create several software engineering design documents. Students will also critique and debate current topics and trends in software engineering. Finally, prominent software engineering approaches, methods, and processes (e.g., CMMI, Agile processes) are examined and compared.

CEN 6027 Software Engineering Process Improvement
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016
This course examines concepts and methods related to performing process improvement for improving the quality of software systems developed/maintained within organizations. Various process improvement models will be considered with an emphasis on the Capability Maturity Model Integration model. Offered Fall Semester only.

CEN 6064 Software Design
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016
Examination of the design principles/methodologies appropriate for developing complex software systems. Goals include comparative analysis of existing design methods, object-oriented design paradigms, and the extensions of modern design techniques and principles to the design of software with distributed implementations in mind.

CEN 6070 Software Testing and Verification
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016
Introduction to the main concepts and methods used to produce correct software. Focuses on software quality assurance through systematic software testing. Students learn to create test sets that exercise software to specified coverage standards and to conduct software inspections. Other verification and validation methods selected by the instructor are also introduced.

CEN 6074 Software Assurance and Security
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016
Concepts and principles related to developing and maintaining secure software systems with no exploitable vulnerabilities with high levels of integrity and reliability.

CEN 6095 Software Engineering Practice and Tools
3 sh (may not be repeated for credit)
Prerequisite: CEN 6016 AND COP 5007
Practicum course simulating best practices used in the software industry for maintaining software systems. Emphasis on the use of modern software methods and tools. Permission is required.

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

CET-Computer Engineering Tech Courses

CET 3450 Data Visualization
3 sh (may not be repeated for credit)
Students will develop skills to efficiently and effectively display data, using a variety of tools that can be used to prepare and present the data in visually compelling manners. Data visualization tools have wide applicability in a wide variety of settings and environments in documentation and presentations.
Students will develop skills and abilities to effectively design, operate and manage a networked system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include in-depth examination and appropriate applications in each functional area. Hardware and software tools that.

CET 4772  Cloud Computing Operations and Security
3 sh (may not be repeated for credit)
Prerequisite: CET 4743 AND CGS 3763

Students will develop skills and abilities to effectively design, operate and manage a networked system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include discussion on implementing infrastructure and applications as a service, virtualization on the cloud, and securing applications and services on the cloud.

CET 6666  NOPS Project
3 sh (may not be repeated for up to 6 sh of credit)

Students enrolled in the MSIT/NOPS degree program are required to complete a two course, six-credit hour, capstone project. Students will work in consultation with their instructor and an identified industry host to identify and complete a complex project related to their program of study. Students synthesize and apply knowledge developed during the academic program to identify, propose and develop solutions to meet the complex networking needs of the host organization. This is the first course in the two course sequence.

CET 6790C  Network Infrastructure and Operations
3 sh (may not be repeated for credit)

Explores the workings related to computer communications, formation of networks, various networking operations and implementation strategies, and recent trends in networking. COP 2253 is a concurrent prerequisite for this course. Students must have completed the course with a minimum grade of B prior to enrollment or be enrolled in the course concurrently.

CET 6882C  Network Performance Monitoring and Security
3 sh (may not be repeated for credit)

Examines network performance, strategies to optimize network performance and protocols related to network security. COP 2253 is a concurrent prerequisite for this course. Students must have completed the course with a minimum grade of B prior to enrollment or be enrolled in the course concurrently.
CGS 3763 Operating Systems Concepts
3 sh (may not be repeated for credit)
Prerequisite: (COP 2253 OR COP 2334) AND (CGS 2920)

Presents basic and applied skills/abilities to effectively utilize computer operations systems and analyze operating system performance.

CGS 3853 Web Page Design
3 sh (may not be repeated for credit)

Techniques for the creation of web sites that are flexible, scalable, and that take advantage of the World Wide Web. Topics include: FTP, HTML tags and web servers. Requires some research and project development. May not be taken for credit by CS / CIS majors. Credit may not be received in both CGS 3853 and CGS 3823.

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

CGS 4912 Undergraduate Research in Information Technology
1-3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: CGS 2920

Students will propose, design, and perform a research project in consultation with a UWF professor, who will serve as research supervisor. Research will be summarized and presented within the department and University. Permission is required.

CGS 4935 Senior Seminar in Information Technology
1 sh (may not be repeated for credit)
Prerequisite: Completion of 90 hours of college course work is required prior to taking this course.

Students will meet with Information Technology professionals and faculty to learn about professional issues and responsibilities, employability skills and careers in Information Technology. This will help students understand the job market so they will be able to transfer skills to future job positions.

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

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

**CHI-Chinese Courses**

**CHI 1100 Chinese Language I**
4 sh (may not be repeated for credit)

Chinese I is a semester-long course designed for non-native Chinese learners. It introduces students to the official Chinese language-Mandarin (or Putonghua). The course aims to help students obtain an adequate mastery of basic language skills in both spoken and written Chinese and lay a good foundation for further study of this language. Throughout the semester, this class will also introduce the Chinese culture and tradition to students. Students will learn the Chinese phonology, vocabulary and grammar, and sentence patterns; they will also learn how to read and write Chinese characters. Specifically, through such activities as vocabulary-in-context, sentence pattern practice, listening and reading comprehension, dialogue and role-play, students will learn to use Chinese in speech and writing in common, real-life scenarios.

**CHI 1101 Chinese Language II**
4 sh (may not be repeated for credit)
Prerequisite: CHI 1100

This semester-long course, as a continuation of Chinese Language I is designed for non-native Chinese speakers with one semester (or less than one year) of Chinese; it continues to emphasize the basic skills of listening, speaking, reading, and writing. In this course, students will learn more vocabulary and grammar while consolidating what they have learned of Chinese in the first semester; students will learn a new vocabulary of more than 300 Chinese characters. At the end of this second semester of Chinese, students should be able to converse on more daily topics with relative ease and effectiveness while developing further reading and writing abilities. In this course, students will continue to develop and integrate the skills of listening, speaking, reading, and writing in Chinese and will learn more about Chinese culture and traditions.

**CHI 2200 Chinese Language III**
4 sh (may not be repeated for credit)
Prerequisite: CHI 1101

Chinese III is a semester-long course designed for non-native Chinese learners. This course aims to help students gain further listening, speaking, reading and writing skills in the official Chinese language? Mandarin (or Putonghua), laying a foundation for students to take HSK Level I,II and III. Throughout the semester, students will learn Chinese vocabulary, grammar and sentence patterns; they will also learn how to write and use these Chinese characters. This course will introduce to students more Chinese culture and traditions. Specifically, through such activities as vocabulary-in-context, sentence pattern practice, listening and reading comprehension, dialogue and role-play, practical reading and writing tasks, students will learn to use Chinese in speech and writing in more specific and professional scenarios.

**CHM-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. Meets General Education requirement in Natural Sciences.

**CHM 1020L Concepts in Chemistry Lab**
1 sh (may not be repeated for credit)
Prerequisite: CHM 1020

Introduction to laboratory safety, experimental techniques. Laboratory experiments on polymers, radioactivity, toxic chemicals, energy, etc. Material and supply fee will be assessed. 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. Meets General Education requirement in Natural Sciences.
CHM 1032L: Fundamentals of General Chemistry Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 1032*

Laboratory experiences illustrating the fundamental principles of CHM 1032. Students taking CHM 1032 concurrently are required to withdraw from CHM 1032L if they withdraw from CHM 1032. A grade of "C-" or higher is required in prerequisite courses. Material and supply fee will be assessed.

CHM 1905: Directed Study
1-12 sh (may be repeated indefinitely for credit)

CHM 2045: General Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1140* OR MAC 2311*

Chemical and physical properties, relationship between observables and concepts and the development of a theoretical framework. Topics will include atomic and molecular structure, theories of bonding, properties of the elements and periodicity. A grade of "C-" or higher is required in prerequisite courses. Meets General Education requirement in Natural Sciences.

CHM 2045L: General Chemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2045*

Introduction to laboratory safety, experimental techniques, graphing of data, chemical reactivity and separations, calorimetry and volumetric analysis. Material and supply fee will be assessed. Students taking CHM 2045 concurrently are required to withdraw from CHM 2045L if they withdraw from CHM 2045. A grade of "C-" or higher is required in prerequisite courses.

CHM 2046: General Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

Continuation of CHM 2045 with emphasis on chemical calculations and problem solving. Topics include thermodynamics, equilibria, kinetics and an introduction to transition metal complexes. A grade of "C-" or higher is required in prerequisite courses. Meets General Education requirement in Natural Sciences.

CHM 2046L: General Chemistry II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046*

Experiments based on colligative properties, qualitative analysis, solution equilibria, kinetics, electrochemistry, radioactivity and synthesis. Material and supply fee will be assessed. Students taking CHM 2046 concurrently are required to withdraw from CHM 2046L if they withdraw from CHM 2046. A grade of "C-" or higher is required in prerequisite courses.

CHM 2210: Organic Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: CHM 2046

Nomenclature, structure, fundamental reactions, mechanistic interpretation of reactions, and spectroscopy.
CHM 3410  Physical Chemistry I  
5 sh (may not be repeated for credit)  
Prerequisite: CHM 2211 AND MAC 2312 AND PHY 2049/L*  
Properties of gases, kinetic theory, chemical thermodynamics, heterogeneous equilibria, electrochemistry. A grade of "C-" or higher is required in prerequisite courses.

CHM 3411  Physical Chemistry II  
4 sh (may not be repeated for credit)  
Prerequisite: CHM 3410  
Atomic, molecular structure, spectroscopy, introduction to quantum theory and statistical mechanics. A grade of "C-" or higher is required in prerequisite courses.

CHM 3740L  Advanced Laboratory Techniques  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 2211L AND CHM 3230*  
Experimental work including advanced laboratory techniques for the synthesis and purification of organic, organometallic and inorganic complexes. Training in the use of instrumentation (chromatographic techniques, NMR, GC / MS, IR, UV-Vis, ORD / CD, etc.) for the purification and characterization of these materials. Students will be introduced to the use of the chemical literature, as well as record keeping and report writing. Material and supply fee will be assessed.

CHM 3741L  Physical Chemistry Laboratory  
2 sh (may not be repeated for credit)  
Prerequisite: CHM 3411* AND CHM 3740L  
Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3801  Responsible Conduct of Research  
1 sh (may not be repeated for credit)  
A wide range of topics will be discussed, including (but not limited to) mentoring, authorship and peer review, ownership and professional standards of data of data collection, handling, and analysis, use of animals and humans in research, and conflict of interest.

CHM 3905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

CHM 4130L  Instrumental Analysis lab  
1 sh (may not be repeated for credit)  
Prerequisite: (CHM 3120) AND (CHM 3400C OR CHM 3411)  
Co-requisite: CHM 4130  
Corresponding lab for Instrumental Analysis lab.

CHM 4455  Introduction to Polymer Science  
2 sh (may not be repeated for credit)  
Prerequisite: ((CHM 2210/L AND CHM 2211/L)) AND (CHM 3400C OR CHM 3410)  
Intended to introduce students to some of the major concepts Polymer Science: An Introduction to Macromolecules - Terms and Definitions; Structure and Bonding in Polymers; Step Growth Polymerization; Chain Growth Polymerization; Ionic Polymerization and Living Polymers; Copolymers; Chain Configurations, the Theta State and Chi Parameter; The Glass Transition Temperature; Biological Polymers; and Plastics Recycling.

CHM 4455L  Introduction to Polymer Science Laboratory  
1 sh (may not be repeated for credit)  
Prerequisite: (CHM 2210/L AND CHM 2211/L)) AND (CHM 3400C OR CHM 3410)  
Co-requisite: CHM 4455  
Laboratory to accompany CHM 4455. Will provide fundamental laboratory skills in polymer synthesis and analysis. Material and supply fee will be assessed.

CHM 4610L  Inorganic Synthesis  
1 sh (may not be repeated for credit)  
Prerequisite: CHM 4611*  
Modern techniques in the synthesis, separation, purification and characterization of inorganic compounds. Material and Supply fee will be assessed.

CHM 4611  Inorganic Chemistry  
4 sh (may not be repeated for credit)  
Prerequisite: CHM 3400C OR CHM 3411  
The structure, reactivity, kinetics and reaction mechanisms of inorganic and organometallic compounds.

CHM 4912  Undergraduate Chemistry Research  
1-4 sh (may be repeated for up to 12 sh of credit)  
Prerequisite: CHM 3400C OR CHM 3411  
Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CHM 4930  Seminar: Special Topics in Advanced Chemistry  
3-4 sh (may be repeated for up to 12 sh of credit)  
Prerequisite: CHM 3400C OR CHM 3411  
Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 5932; graduate students will be assigned additional work.
CHM 4931  Seminars in Chemistry
1 sh (may not be repeated for credit)
The course will include seminars by visiting scientists, university faculty and students on current research in chemistry, as well as scientific literacy, professional ethics, hazard waste regulations, resume writing, and presentation skills.

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

CHS-Chemistry: Specialized Courses

CIS-Compt Sci Inform Syssts Courses

CIS 2352  Introduction to Ethical Hacking
3 sh (may not be repeated for credit)
Prerequisite: CTS 1120
This course provides a basic understanding of how to effectively protect computer networks by understanding how a system can be exploited. The course provides a discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber-attacks as well as an overview of computer crime laws. Students will be provided a basic overview of tools and penetration testing methodologies used by ethical hackers to gathering information, identify flaws and vulnerabilities, and exploit those flaws.

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

CIS 3325  Information Technology Infrastructure Analysis and Recommendation
3 sh (may not be repeated for credit)
Prerequisite: (COP 2253 OR COP 2334) AND (CGS 2920)
Students will develop the knowledge, skills and abilities necessary to analyze technology infrastructure needs of various types and sizes of organizations and provide appropriate solution recommendations to solve complex problems.

CIS 3512  Software Documentation
3 sh (may not be repeated for credit)
Prerequisite: ENC 1102
Introduction to major concepts of software documentation. Emphasis on construction of software system artifacts that support team development and evolution of software systems (e.g., memos, letters, project proposals, progress reports, requirements, specifications, design, test plans, test reports, project reports). MLA, APA, and LaTex publication standards will be applied. Open to all majors Meets Gordon Rule Writing Requirement.

CIS 3949  Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

CIS 4361C  IT Security
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2830
Introduction to skills, knowledge, techniques, and tools required by information-technology security professionals. Topics include security and risk management, physical security, access control, cryptography, security architecture and design, security for networks and telecommunications, application security, and legal considerations.

CIS 4368  Introduction to Database Security
3 sh (may not be repeated for credit)
Prerequisite: COP 4710
The Database Security course follows guidelines set forth by the National Security Agency/Department of Homeland Security Centers of Academic Excellence in Information Assurance and Cyber Defense. This course is considered a core knowledge unit for institutions to be considered a Center of Academic Excellence. Database Security is designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This undergraduate course is a requirement for the B.S. in Cybersecurity and will be an elective for all other undergraduate Computer Science programs. Prerequisites: COP 4710, minimum grade of C-.

CIS 4385  Ethical Hacking and Penetration Testing
3 sh (may not be repeated for credit)
Prerequisite: (COP 3022 OR COP 3530) AND (CNT 4007)
This course provides a understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. The tools and methodology will focus on gathering information and identifying flaws and vulnerabilities in documentation, software and computer systems, and exploiting those flaws. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will be provided with an overview of computer crime laws. This course is 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 Project
3 sh (may not be repeated for credit)
Prerequisite: CEN 3031 AND COP 4534 AND COP 4634
This course follows up on Software Engineering I requiring students to apply the developed skills to design, implement, and evaluate a software product that addresses a complex, real-world problem. The course provides additional software engineering concepts and skills that students learned in Software Engineering I focusing on best practices and methods for building software. Students will work individually or as teams to develop a project plan, multiple prototypes, and a final software system for the project topic. Students will be required to prepare a final presentation on their project and a report that describes their achievements and provides a critical assessment of their work and final product.
University of West Florida - Graduate

CIS 4905 Directed Study
3 sh (may be repeated indefinitely for credit)
Prerequisite: (COP 4710 OR CEN 3032) AND ((COP 4610 AND COP 4710))

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 4941 Computer Science Internship
1-3 sh (may not be repeated for credit)
Supervised field practicum in computer-related position. May include activities in computer programming, database administration, web development, systems administration, network security, etc. Graded on satisfactory / unsatisfactory basis only. Juniors or seniors with minimum cumulative GPA of 3.00 will be eligible. Permission is required.

CIS 4947 Internship/Practicum in Information Technology
1-3 sh (may be repeated for up to 6 sh of credit)
Practical and significant Information Technology professional work experience under approved industrial supervision. Graded on a satisfactory / unsatisfactory basis only.

CIS 5396 Ethical Hacking and Penetration Testing
3 sh (may not be repeated for credit)
Prerequisite: CDA 6415 AND COP 6025
This course provides a understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. The tools and methodology will focus on gathering information and identifying flaws and vulnerabilities in documentation, software and computer systems and exploiting those flaws. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will be provided with an overview of computer crime laws. Offered concurrently with CIS 4385; graduate students will be assigned additional work. Credit may not be received in both CIS 5396 and CIS 4385.

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

CIS 6376 Database Security
3 sh (may not be repeated for credit)
Prerequisite: COP 5725
Database Security is designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This course will cover various methods to ensure information confidentiality, integrity and availability on an assortment of data storage systems. This graduate course is a requirement for the M.S.A. in Cyber Security and will be an elective for all other graduate Computer Science programs. Prerequisites: COP 5725 minimum grade of C.

CIS 6379 Applied Information Security
3 sh (may not be repeated for credit)
This course covers a variety of topics which range from information security fundamentals to the management and planning aspects of information security. Students in this course will learn to design and create information security policies, disaster recovery and risk analysis & mitigation plans. Students will also learn about security models and various physical and technical security controls.

CIS 6394 Digital Forensics
3 sh (may not be repeated for credit)
This course will cover basic concepts and provide a solid foundation for performing a digital forensic examination; introduces tools and techniques required for conducting a forensic analysis on systems and data pertaining to evidences in civil, criminal or administrative cases. It introduces systematic problem-solving techniques and applies them to digital investigations. The theories directly correlate to methods used to recover/restore data for various requirements, ranging from litigation to fraud based investigations.

CIS 6415 Advanced Computer Systems and Networks
3 sh (may not be repeated for credit)
Examines current advancements in computer hardware, operating systems and networks, their relation to each other, and programming practices that takes advantage of them. Topics include pipelined, hyperthreaded, multcore and multiprocessor architectures, scheduling methods, distributed and real-time systems, high-speed networks, routing, congestion and flow control, and quality of service.

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

CIS 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

CJC-Corrections Courses

CJC 4010 Corrections
3 sh (may not be repeated for credit)
Basic analysis of correctional systems in the United States. Focus is on widely held conceptions of punishment, physical design and organizational structures of prison facilities, community based correctional options, the death penalty and the evaluation of correctional research. Other topics of interest include sentencing policy, key issues faced by prison administrators and prisoners as well as the role of the victim in corrections.

CJC 4167 Community Corrections
3 sh (may not be repeated for credit)
Introduces the student to the subject of community corrections including social, political, and economic conditions that have contributed to the development of community corrections. Identifies the types of community corrections and the effectiveness of such options. The needs of special offender populations for corrections alternatives are also explored.

CJC 6021 Penology
3 sh (may not be repeated for credit)
Examines classical and contemporary readings in corrections. Uses historical and philosophical contexts to critically assess contemporary correctional issues and introduces students to the importance of data-driven policy promoting critical evaluation and debate.
CJE-Law Enforcement Courses

CJE 3174 Comparative Criminal Justice
3 sh (may not be repeated for credit)
The evolution and operation of criminal justice systems in other nations and cultures including the development of criminal justice in response to social, historical, and political factors. Includes a brief history of the world's legal systems and an analysis of key procedural and substantive similarities and differences. Associated topics include: administration and function of police, courts, and corrections, and a study and analysis of the increasing internationalization of both the incidence of crime and the administration of criminal justice.

CJE 3444 Crime Prevention
3 sh (may not be repeated for credit)
Provides a foundation of various methods of community crime prevention (prevention outside the traditional confines of the CJS) and their effectiveness. Relevant theory and research related to neighborhood efforts at crime prevention, community policing, school crime prevention, and other situational prevention measures will be explored critically.

CJE 3617 Cold Case Investigations
3 sh (may not be repeated for credit)
An examination of investigative methods and efforts to solve crimes previously deemed closed or pending development of evidence; cold cases.

CJE 3674 Introduction to the Forensic Sciences
3 sh (may not be repeated for credit)
Forensic Science is the application of scientific disciplines and principles to the legal system, particularly the litigation in court of contested factual disputes. Examines the distinct fields of education and study that collectively comprise the forensic sciences. These fields include among others forensic psychiatry and psychology, forensic anthropology, forensic pathology, forensic toxicology, serology and DNA typing, questioned documents, crime scene investigation, forensic engineering, fingerprint evidence, polygraph and other investigative devices, and forensic chemistry including drug analysis. Credit may not be received in both CJE 3674 and CJE 3670.

CJE 3694 Cybercrime
3 sh (may not be repeated for credit)
Cybercrime is a course for students with a beginning interest in studying crimes committed using digital technology. The course explores the etiology of cybercrime, the various types of cybercrime, law enforcement response, and the prevention of digital crime.

CJE 4110 Policing
3 sh (may not be repeated for credit)
Analysis of the role of and challenges to policing in a democratic society. Examination of contemporary and historical influences on police policy, personnel, and organization. Discussion of police function within society.

CJE 4161 Crime and Media
3 sh (may not be repeated for credit)
Analysis of the depiction of crime and the criminal justice system presented through the major mass media within America. Forms of media may include, but are not limited to: crime movies, television crime dramas, television news, the internet, and newspaper crime coverage. This course uses media as a learning tool to allow students to more deeply examine how the criminal justice system works and how society's reaction to crime is influenced by the media.

CJE 4610 Criminal Investigation
3 sh (may not be repeated for credit)
An introduction to criminal investigation. Topics will include investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation. Credit may not be received in both CJE 4610 and CCJ 4239.

CJE 4613 Homicide
3 sh (may not be repeated for credit)
An examination of homicide and its investigation. Includes types of homicide as well as death by natural and accidental causes. Reviews and expands on investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation.

CJJ-Juvenile Justice Courses

CJJ 4010 Juvenile Justice
3 sh (may not be repeated for credit)
Examines the nature and extent of delinquency in the United States and the system response to juvenile crime. Particular attention is given to theoretical explanations of juvenile delinquency and examination of how politics, courts, and correctional agencies respond to juvenile offenders, and the effectiveness of these responses. Credit may not be received in both CJJ 4010 and CCJ 4501.

CJJ 6020 Criminal Justice and the Juvenile
3 sh (may not be repeated for credit)
Explores the nature and extent of juvenile delinquency and examines explanatory models and theories of juvenile delinquency. Topics related to the juvenile justice system and the process, such as juvenile waiver to the adult court, diversion and deinstitutionalization, police interaction, and community intervention.

CJL-Law and Process Courses

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

CJL 6521 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; and explores the impact of courts within society and the criminal justice system.
CLP-Clinical Psychology Courses

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

CLP 3144  Abnormal Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Broad overview of psychological disorders of children and adults including history of abnormal human behavior, research methods, theories and causes, and contemporary treatment. Typical topics include adjustment, mood, anxiety, somatoform, factitious, dissociative, substance-related, personality, and psychotic disorders (including schizophrenia).

CLP 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
CLP 4314  Health Psychology
3 sh (may not be repeated for credit)
Survey of contributions of the discipline of psychology to the promotion and maintenance of health and prevention and treatment of illness. Application of biopsychosocial model to health. Credit cannot be received in both CLP 4314 and PSY 4820.

CLP 4390  Introduction to Forensic Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
This upper-level undergraduate course is designed to be an exciting and intellectually challenging introduction to the study of Forensic Psychology. Forensic Psychology deals with the interplay between the disciplines of psychology and law. Specifically, this class examines the legal system through the use of psychological concepts, methods, and research results. Although the course covers both criminal and civil aspects of the legal system, the primary focus will be on the role of psychologists in those areas pertaining to the criminal legal system. Class content focuses on theory but also has a strong experiential component as well. Specifically, the class learning experience culminates in the production of a Mock Trial.

CLP 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
CLP 5166  Psychopathology
3 sh (may not be repeated for credit)
Students must take CLP 3144 before enrolling in this course. In depth analysis of child and adult psychological disorders focusing on practical application of the current diagnostic manual in developing diagnostic formulations. Emphasis on an integrative theoretical approach and the empirical foundation for theory, causes, and treatment of psychological disorders.

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

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

CNT-Computer Networks Courses

CNT 1000  Introduction to Networking
3 sh (may not be repeated for credit)
Prerequisite: COP 1000*
Introduction to networking concepts and technologies. Topics include network topologies, popular network protocols, network devices and components, cabling, switching, data transfer and flow control, routing and forwarding, multiple access techniques.

CNT 1401  Cybersecurity Fundamentals I
3 sh (may not be repeated for credit)
Prerequisite: CNT 1000 AND COP 1000
This course provides an overview of information systems security, malicious attacks and aspects of information security risk management in today’s business environments. Topics include definition of terms, concepts, elements, and goals incorporating industry standards and practices with a focus on access controls availability, vulnerability, integrity, and confidentiality aspects of information systems.

CNT 2402  Cybersecurity Fundamentals II
3 sh (may not be repeated for credit)
Prerequisite: CNT 1401
This course provides an overview of security challenges and strategies of countermeasure in the IT infrastructure environment. Topics include cryptography, network principles and layered architecture, attack methods, defense mechanisms, technologies and U.S compliance laws protecting information systems security.

CNT 4007  Theory and Fundamentals of Networks
3 sh (may not be repeated for credit)
Prerequisite: (MAC 2233 OR MAC 1147) AND ((COP 2334 AND COT 3100))
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 3530 OR COP 3022) AND (CNT 4007)
This course provides students with an understanding of the concepts of computer and network security using currently available technology. The course provides students with an understanding of the options available to mitigate threats within a system and teach students the techniques that can be taken to protect a network and communication assets from cyber threats.
Every organization, whether part of the government or the private sector, needs battle-tested IT personnel in order to defend its networks against attack. The most effective way to provide this experience is to recreate the exact scenarios, no matter how nefarious, they will see in the real world. This course provides exercises that use different specialties (network, security, visualization, software, etc.) into color-coded red and blue teams that perform specific roles in attacking and defending IT infrastructures.

INTRODUCES COMMON WIRELESS TECHNOLOGIES AND WIRELESS NETWORK ARCHITECTURES INCLUDING COMMON CARRIER CELLULAR NETWORKS. LEARNERS WILL EXAMINE CHARACTERISTICS OF THESE TECHNOLOGIES AND IDENTIFY THEIR ROLES IN ENTERPRISE-CLASS INFORMATION TECHNOLOGY OPERATIONS. LEARNERS WILL IDENTIFY COMMON TOOLS AND APPLICATIONS ASSOCIATED WITH THESE TECHNOLOGIES AND EXPLAIN THEIR ROLES IN DESIGN, DEPLOYMENT AND MANAGEMENT OF THEM. WIRELESS TECHNOLOGIES STRENGTHS AND WEAKNESSES ARE DESCRIBED IN THE CONTEXT OF THEIR EFFECT ON ENTERPRISE SECURITY, PERFORMANCE AND COST MANAGEMENT.

THE OBJECTIVE OF THE COURSE IS TO STUDY AND UNDERSTAND THE SECURITY AND RESEARCH CHALLENGES OF EXISTING AND EMERGING WIRELESS NETWORKS. STUDENTS WILL LEARN ABOUT VARIOUS SECURITY ISSUES SUCH AS KEY MANAGEMENT, PRIVACY, AUTHENTICATION AND SECURE DATA AGGREGATION AND THE ALGORITHMS USED TO RESOLVE THESE ISSUES.

* THIS COURSE MAY BE TAKEN PRIOR TO OR DURING THE SAME TERM.

COM-Communication Courses

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

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

Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education, and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 5025; graduate students will be assigned additional work.
COM 4103  Leadership Communication
3 sh (may not be repeated for credit)
Promotes leadership development through study of leadership theory and concepts and practical application of leadership laboratory experience. Based on a servant leader philosophy, focuses on building leadership competencies in interpersonal communication, public presentations, team building, working in multicultural environments, mentoring, problem solving and influence strategies used in interpersonal and public forums to bring about community and organizational change. Leadership skill-building opportunity to all participants. Credit may not be received in both COM 4103 and COM 4103C.

COM 4110  Business and Professional Communication
3 sh (may not be repeated for credit)
Prerequisite: SPC 3301
Practical understanding of communication practices affecting the workplace. Emphasis on managing work relationships, listening, organizational interviews, professional presentations, communication technologies and multi-cultural diversity.

COM 4120  Organizational Communication
3 sh (may not be repeated for credit)
Examines the dynamics of communicating within organizations and with stakeholders. Students analyze case studies of actual organizations and build skills related to teamwork, motivation, morale-building, leadership, decision-making, and more.

COM 4250  Strategic Communication for the Sciences
3 sh (may not be repeated for credit)
Prerequisite: (COM 2713 AND SPC 2608) OR COM 3003 OR JOU 3100) AND (GIS 3000* OR GLY 3000* OR MCB 3000* OR OCB 3000* OR OCC 3000* OR OCE 3000* OR OCG 3000 OR PCB 3000* OR PHY 3000* OR PHZ 3000* OR BCH 3000* OR ZOO 3000* OR BOT 3000* OR BSC 3000* OR CHM 3000* OR ESC 3000* OR EVR 3000* OR EVS 3000* OR GEA 3000* OR GEO 3000*)
This course presents students with the knowledge, strategies and tactics for effectively communicating STEM research and emerging issues to a general or mass audience. The course explores the opportunities and constraints of varying media outlets and the social, cultural and political challenges of science communication.

COM 4301  Communication Research
3 sh (may not be repeated for credit)
This course will examine primary and secondary research methods useful to comprehensive communication investigation and integrated public relations/advertising campaigns.

COM 4620  Communication Ethics
3 sh (may not be repeated for credit)
Guides students in examining ethical considerations in business and public life. Includes diverse ethical perspectives, critical methods of analysis, and greater awareness of the role ethics plays in everyday life.

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

COM 4940  Internship in Communication
1-3 sh (may be repeated for up to 6 sh of credit)
Supervised field practicum in a communication-related position, to include advertising, broadcast and print journalism, telecommunications and film, organizational communication and public relations. Senior standing and a 2.7 overall GPA is required. Graded on a Satisfactory / Unsatisfactory basis only. Permission is required.

COM 5005  Introduction to Graduate Studies in Communication
1.5 sh (may not be repeated for credit)
Designed to introduce graduate students to critical elements of graduate studies in communication. Central topics include mastering the basics of APA style, honing analytic writing skills related to the study of communication, instructional resources, academic integrity issues unique to communication, and the history of the communication discipline.

COM 5025  Health Communication
3 sh (may not be repeated for credit)
Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 4022; graduate students will be assigned additional work. Graduate standing is required.

COM 5146  Fundraising Communication
1.5-3 sh (may be repeated for up to 3 sh of credit)
Fundraising Communication introduces students to the principles and practice of fundraising in the United States. The theoretical underpinnings of fundraising are approached from a public relations perspective. Students will have the opportunity to demonstrate mastery of relevant skills worthy of a professional fundraising campaign.

COM 5206  Communication Training
3 sh (may not be repeated for credit)
Prepares students to design and conduct communication skills training for professionals. Emphasizes adult learning, conducting needs assessments, establishing training objectives, using communication technology and evaluating training efforts. Involves a hands-on student learning project in which students conduct needs assessments and present two-hour workshops for local professional organizations. Other majors must confer with instructor regarding comparable prerequisites. Offered Fall of every other year.

COM 5527  Communication Agency
1.5 sh (may not be repeated for credit)
Guides students through the development and implementation of a series of strategic and organizational communication projects utilizing an "agency-style" team based format. Permission is required.

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

COM 5933  Special Topics in Communication
1.5-3 sh (may be repeated for up to 9 sh of credit)
Designed to provide students with specialized knowledge in a particular field of communication such as organizational communication, media criticism, rhetorical criticism, or visual communication.
COM 6024  Emerging Topics in Health Communication
1.5 sh (may be repeated for up to 3 sh of credit)
Highlights how communication issues in health care are interwoven with community well-being, civic life, professional development, and opportunities for collaboration and mutual gain. Topics may include health care reform, leadership in health care settings, patient and family satisfaction, privacy issues, and burnout among health professionals. Utilizes current research, theoretical foundations, and local health care experts to explore relevant and emerging issues. Uses health care case studies to develop effective leadership and strategic communication strategies.

COM 6129  Assessing Organizational Dynamics
3 sh (may not be repeated for credit)
Applying systems thinking to analyze the dynamics of communication within an actual organization. Emphasis on deep-level analysis to reveal who talks to whom, when, why, and about what. Goals are (1) to reveal communication patterns and assumptions that make it either easy or difficult to achieve high quality organizational production and (2) to help organizational members design processes that foster the creation of high-performance, high-capacity teams.

COM 6207  Advanced Communication Leadership
3 sh (may not be repeated for credit)
Based on a hands-on leadership project informed by the study of leadership communication theory, research, and case studies. Emphasis is on developing communication skills, strategy, and awareness to enhance leaders’ effectiveness. Permission is required.

COM 6210  Emerging Topics in Organizational Communication
1.5 sh (may be repeated for up to 3 sh of credit)
Explores current communication issues and challenges facing today’s organizations. Emphasizes the development of strategies to address these issues through case studies, course readings, and by studying the communication challenges of actual organizations.

COM 6312  Advanced Communication Research Methods
3 sh (may not be repeated for credit)
This course addresses the philosophy of scientific research including the origins, nature, and effects of communication processes. Focuses on both theoretical and applied research. Primary emphasis is on quantitative investigation and applied research. Primary emphasis is on qualitative investigation with some consideration of qualitative methods. Focus is on achieving a solid understanding of the strengths and weaknesses of different methodological approaches (i.e., experiments vs. surveys vs. interviews) in order to determine the most effective methods for research questions or hypotheses. Students are expected to have completed at least one introductory college level statistics course preceding enrollment in this course.

COM 6401  Communication Theory
1.5-3 sh (may be repeated for up to 3 sh of credit)
Examines the process of theory creation, development, application, and evaluation. Theories focus on human decision making, organizational communication, and industry best practices. Oriented toward professional application.

COM 6525  Strategic Communication
3 sh (may not be repeated for credit)
Provides a conceptual framework for strategic communication, sharpens analytical and critical thinking, and provides a unifying function for the Strategic Communication & Leadership Program. Addresses all aspects of the development and execution of communication programs. Offers “real world” experience through the analysis of case studies. Case studies and coursework will be drawn from the profit, non-profit, product, and service sectors. Particular attention will be paid to sociopsychological, legal, and ethical issues as they relate to the decision-making process.

COM 6528  Team-Based Project
1.5 sh (may not be repeated for credit)
Guides a team of students in applying the principles of strategic communication, leadership, and project management to a community-based project. Permission is required.

COM 6625  Emerging Topics in Communication Law and Ethics
1.5 sh (may not be repeated for credit)
An advanced seminar covering legal issues such as the First Amendment, political speech, defamation, emerging technologies, and access to information; and ethical issues such as taste and editorial content.

COM 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
COM 6930  Organizational Communication Project
1-6 sh (may not be repeated for credit)
Advanced research project for a major corporate or organizational client. Working with a client organization, students will identify a problem for study, perform an extensive review of issues related to the project, develop several testable research questions or hypotheses about the problem, gather and analyze qualitative and/or quantitative data, and write an extensive report, including summary conclusions based on the study. May enroll for more than one term, minimum of 6sh required for M.A. degree. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

COP-Computer Programming Courses

COP 1000  Introduction to Programming
3 sh (may not be repeated for credit)
Introduction to algorithms and basic programming. Topics include variables, control and looping constructs, parameter passing. Emphasizes developing fundamental programming skills and software engineering principles to solve problems in a secure and robust manner.

COP 2253  Programming Using Java
3 sh (may not be repeated for credit)
Introduction to algorithms and object-oriented programming. Topics include control constructs, looping constructs, parameter passing, and arrays. Emphasizes developing fundamental programming skills and software engineering principles in the context of an object-oriented language to solve complex problems in a secure and robust manner.
**COP 2334  Programming Using C++**  
3 sh (may not be repeated for credit)  
Introduction to computers and algorithms. Programming in a high level language. Topics include structured programming techniques, procedural and data abstraction. Students will learn the fundamentals of developing coherent, expressive programs.

**COP 2830  Script Programming**  
3 sh (may not be repeated for credit)  
Introduction to the essential skills of programming with scripting. Topics include use and manipulation of variable, design and validation of forms, and writing scripts for systems calls and command line arguments.

**COP 3014  Algorithm and Program Design**  
3 sh (may not be repeated for credit)  
An introduction to advanced computational and problem solving techniques. Emphasis on the use of basic programming constructs to create correct, efficient algorithms. Secondary focus on the basic structure and decomposition of programs. This course will include several laboratory projects.

**COP 3022  Intermediate Computer Programming**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2334  
An intermediate course in object-oriented programming. Topics include object-oriented modeling, algorithms, inheritance, polymorphism, input/output. Emphasis 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. The focus will be on developing skills in program design as a necessary prerequisite to effective implementation.

**COP 3530  Data Structures and Algorithms I**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3014  
A first course in Data Structures and Algorithms. Topics will include traditional data structures with a major focus on design and analysis of algorithms and will include projects that stress mathematics and science.

**COP 3665  Mobile Programming**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3022  
Concepts and skills related to programming mobile devices, with specific emphasis on at least one modern mobile programming language or framework.

**COP 3813  Server-Side Programming**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2334 OR COP 2253 OR COP 3014  
A course in principles of server-side technologies that form the core of classical three-tier applications. This course provides a solid foundation for the concepts of server-side programming, using a current server-side programming/scripting language.

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

**COP 4020  Programming Languages**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3530 AND COP 4027  
Programming language theory and practice, including language design and implementation, theoretical foundations, language translation, and exposure to a variety of programming paradigms.

**COP 4027  Advanced Computer Programming**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3022  
Addresses advanced topics in computer programming including advanced tools and IDEs, user interface design and implementation, user validation, network programming, data communication, enterprise programming principles, multi-tier systems, and concurrent programming. Emphasis will be developing skills in program design as necessary prerequisite to effective implementation.

**COP 4331  Object Oriented Programming**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 3530  
Prerequisite: (COP 2253 OR COP 2334) AND (COP 4710)  
Exploration of the fundamental ideas behind object-oriented programming, including encapsulation, inheritance, and polymorphis. Applications will focus on extracting objects from a problem domain, designing problem solutions based on message-passing between objects, and documenting object-oriented design. Implementations will be done in a current object-oriented language.

**COP 4534  Data Structures and Algorithms II**  
3 sh (may not be repeated for credit)  
Prerequisite: COP 2253 or COP 2334 AND COP 4710  
A second course in Data Structures and Algorithms. Topics include mathematical properties of algorithms (complexity, correctness), heaps, height-balanced trees, graphs, greedy algorithms, dynamic programming, and proof techniques pertaining to computational complexity. Emphasis on issues of correctness and efficiency. Students entering this course are expected to have a solid knowledge of programming.

**COP 4610  Theory and Fundamentals of Operating Systems**  
3 sh (may not be repeated for credit)  
Prerequisite: CDA 3101  
A functional systematic examination of the key components and theories of a modern operating system, including process, thread management, synchronization, I/O, and memory management. Emphasizes using several modern operating systems and writing programming scripts to manipulate these operating systems.
COP 4634  Systems & Networks I
3 sh (may not be repeated for credit)
Prerequisite: (CDA 3101 OR EEL 3701) AND (COP 3530)
This course reviews fundamental principles of modern operating systems and relates them to computer programming. Students learn about the design of various components of operating systems and the services they provide to end users and application developers. The role of security in operating systems is covered.

COP 4635  Systems & Networks II
3 sh (may not be repeated for credit)
Prerequisite: (STA 4321 OR EGS 3441) AND ((COP 4534* AND COP 4634))
This course is a continuation of topics discussed in System & Networks I, focusing on fundamental principles of modern computer networks and network programming. The course will study the structure of networks, networking devices, network protocol stacks, congestion and flow control analysis and algorithms, network routing algorithms and protocols, and network traffic analysis. The course also covers client/server and peer-to-peer network programming and the role of security in networks.

COP 4710  Database Systems
3 sh (may not be repeated for credit)
Prerequisite: COP 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.

COP 4856  Distributed Software Architecture
3 sh (may not be repeated for credit)
Prerequisite: COP 3022 AND COP 4710
Software aspects of distributed architecture, with emphasis on database integration and interoperability of distributed components.

COP 4864  Client-Side Programming
3 sh (may not be repeated for credit)
Prerequisite: COP 3813
A course in principles of client-side technologies that form the complement of server-side applications. This course provides a solid foundation for the concepts of client-side programming and an introduction into client-side frameworks.

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

COP 5007  Software Engineering Foundations: Java Programming
3 sh (may not be repeated for credit)

A course in the Accelerated Software Engineering Foundations Series in which students will gain a comprehensive understanding of principles/concepts of Java programming and how to apply those principles/concepts in conjunction with principles of software engineering to design and develop object-oriented software systems. Students taking this course should have an understanding of programming language fundamentals including variables, constants, selection, iteration, arrays, and functions or methods.

COP 5518  CS Foundations: Operating Systems and Networks
3 sh (may not be repeated for credit)

This course reviews fundamental principles of modern operating systems and computer networks and relates them to computer programming. The course covers topics such as the design of various components of operating systems and services they provide to users and application developers, network structures & devices, network protocol stacks, network performance metrics, network routing algorithms, and network traffic analysis. The role of security in systems and networks will also be covered.

COP 5725  Database Systems
3 sh (may not be repeated for credit)
Prerequisite: COP 5007*

Introduction to database systems and database management system architectures. Various database models are discussed with emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL, are included.

COP 5775  Database Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 5725
Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemas, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance.

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

COP 6025  Advanced Programming Languages
3 sh (may not be repeated for credit)

Theory and practice of programming language design. Topics include: advanced language constructs, an overview of parallel programming, formal specification of programming languages, the analysis/synthesis model of program translation, code optimization, and compiler construction tools. Students will design and implement a small programming language. Knowledge of COP4020 or COT4420 is necessary for success in this course.

COP 6727  Advanced Database Systems
3 sh (may not be repeated for credit)
Prerequisite: COP 5725

Advanced topics in database management systems will be covered, for example, further dependencies and higher normal forms, transaction processing, concurrency control, backup and recovery, indexing, replication, managing large databases, and contemporary issues and topics in databases.
COT 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

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

COT-Computer Science Courses

COT 3100  Discrete Structures
3 sh (may not be repeated for credit)
Prerequisite: (COP 2253 OR COP 2334 OR COP 3014) AND (MAC 2233 OR MAC 2311)

Foundations of Discrete Math with applications to modeling, programming and data structures. Propositional and predicate logic, sets, functions, sequences, summations, algorithms, analysis of algorithms, combinatorics, graphs. Emphasis is on developing programming skills. Can also be taken by CIS majors. Prerequisites: (COP 2253 or COP 2334 or COP 3014) and (MAC 2233 or MAC 2311) minimum grade of C-.

COT 4420  Theory of Computation
3 sh (may not be repeated for credit)
Prerequisite: COT 3100


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

COT 5205  Theory of Computation
3 sh (may not be repeated for credit)

Theoretical foundations of computer science. Classification of formal languages, grammars and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Insolvability of the halting problem. Dual-listed with COT 4420; graduate students will be assigned additional work. Students cannot receive credit for COT 5205 and COT 4420.

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

COT 5930  Computer Science Seminar
3 sh (may be repeated for up to 6 sh of credit)

A seminar-style course that provides graduate students with an overview of trends in Computer Science research and development, as well as prepares students for conducting independent research. Specific topics include trends in CS research, software development, and research methods. Permission is required.

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

COT 6931  Computer Science Project
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: COP 5007 AND COP 5725; Completion of 15 hours of college course work is required prior to taking this course.

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 15 semester hours of their graduate coursework. Permission is required.

CPO-Comparative Politics Courses

CPO 2002  Comparative Politics
3 sh (may not be repeated for credit)

Examination of political processes and political institutions in selected foreign countries such as Britain, France, Germany, USSR, Japan and India. Methods of cross-national political analysis. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.

CPO 3055  Dictatorships
3 sh (may not be repeated for credit)

The course will carry out a comparative analysis of dictatorships across time and space, with special attention paid to 20th century totalitarian regimes, including those of Hitler, Stalin, and Mao. The analysis will focus on some of the causes for the rise and fall of these dictatorships, their ruling personalities and methods, the costs imposed on their subject populations, and their long-term effects on the politics of their representative countries. The course will begin with selections from classic writings on tyranny from Plato, Aristotle, Suetonius, and Machiavelli. Then, using scholarly texts, novels, and films, we will examine historical cases from several continents, drawing parallels and contrasts across them. Meets Multicultural Requirement.

CPO 3103  Politics of Western Europe
3 sh (may not be repeated for credit)

Political processes and institutions of selected European political systems. Meets Multicultural Requirement.

CPO 3322  Cuba, Castro and the USA
3 sh (may not be repeated for credit)

The course will carry out an analysis of Cuban politics, domestically and in relation to the USA, from the outbreak of the Spanish-American War to the present, with special emphasis on the Castro era (i.e., 1959 to the present). The analysis will compare Cuba’s standard of living, nature and structure of standing before Fidel Castro seized power in the early years of the Cuban Revolution and at different times during his nearly 50-year reign. Some attention will be paid to how Cubans who came to the USA after Castro have fared, especially politically. Meets Multicultural Requirement.

CPO 3513  Politics of the Far East-Japan and China
3 sh (may not be repeated for credit)

Political systems of China and Japan offer striking comparisons to each other and to the United States. They provide two non-Western cultural contexts within which some Western political ideas and institutions operate. Meets Multicultural Requirement.

CPO 3614  Politics of Eastern Europe
3 sh (may not be repeated for credit)

This course follows the transition from communism to democratization through democratic consolidation in Eastern Europe. It explores the question: how democratic are they today, nearly a decade and a half after the collapse of communism? Emphasis is on the changes in post-Soviet states, their organization and political culture and identity, and contemporary issues. Several countries will be considered 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 4074 Political Economy
3 sh (may not be repeated for credit)

This course has two objectives in mind. One is to inquire into methods of analysis that borrow certain ideas from economics, such as self-interest and incentives, to the study of politics. One might call this the methodological objective. The other objective is to examine the reciprocal relations between government and the domestic economy. Specifically, it surveys what political scientists and public intellectuals have said about the effect of economic conditions on regime survival and elections, on the one hand, and on the other the impact of regime type and public policy on various measures of the general welfare as economic growth, human development, and income or wealth inequality. We shall begin with excerpts from ancient and modern thinkers, then proceed to analyze scholarship by contemporary political scientists and political economists.

CPO 4303 Politics of Spain, Portugal, and Latin America
3 sh (may not be repeated for credit)

The politics of Spain, Portugal, and the largest Latin American countries (Argentina, Brazil, Mexico) and, as time permits, other countries of particular concern to the United States. Meets Multicultural Requirement.

CPO 4314 Democracies
3 sh (may not be repeated for credit)

This course examines what it means to be a 21st century democracy. It explores institutional variants of democracy, including different structures of government and electoral systems. It considers the promise and the problems that democracy holds. In the course we will explore democratic variants examining factors such as accountability, competitiveness, transparency, representation. We will examine democratization and how to build and sustain democracy. We will consider preconditions for democracy and discuss the complex relationship between democracy and economics. Offered concurrently with CPO 5315; graduate students will be assigned additional work.

CPO 4774 Radicalism and Extremism
3 sh (may not be repeated for credit)

Political radicals and political extremists reside outside of the boundaries of mainstream politics because they diverge sharply in their ideological orientation strategy and tactics relative to the parties of the political center. This course focuses on the ideology, discourse, goals and actions of certain parties and groups on the fringe of politics. Emphasis is placed on conceptualizing the terms radical? and extremist? to develop an understanding of how these groups stand apart from the mainstream. Comparative cases will be examined ranging from consideration of a wide variety of American radicals on both the political right and political left, European radical right political parties, religious radicals and fundamentalism, and Middle Eastern radical Islam. We will characterize various extremist groups, discuss strategies and tactics, explore factors that catalyze such groups, and consider their impact and significance on policy but also on governance and society. The course is offered concurrently with CPO 5779; graduate students will have additional work.

CPO 4792 Geopolitics
3 sh (may not be repeated for credit)

Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold war period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relates to the larger issue of state power and US national policy. Offered concurrently with CPO 5797 graduate students will be assigned additional work. Meets Multicultural Requirement.

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

CPO 5315 Democracies
3 sh (may not be repeated for credit)

This course examines what it means to be a 21st century democracy. It explores institutional variants of democracy, including different structures of government and electoral systems. It considers the promise and the problems that democracy holds. In the course we will explore democratic variants examining factors such as accountability, competitiveness, transparency, representation. We will examine democratization and how to build and sustain democracy. We will consider preconditions for democracy and discuss the complex relationship between democracy and economics. Offered concurrently with CPO 4314; graduate students will be assigned additional work.

CPO 5779 Radicalism and Extremism
3 sh (may not be repeated for credit)

Political radicals and political extremists reside outside of the boundaries of mainstream politics because they diverge sharply in their ideological orientation strategy and tactics relative to the parties of the political center. This course focuses on the ideology, discourse, goals and actions of certain parties and groups on the fringe of politics. Emphasis is placed on conceptualizing the terms radical? and extremist? to develop an understanding of how these groups stand apart from the mainstream. Comparative cases will be examined ranging from consideration of a wide variety of American radicals on both the political right and political left, European radical right political parties, religious radicals and fundamentalism, and Middle Eastern radical Islam. We will characterize various extremist groups, discuss strategies and tactics, explore factors that catalyze such groups, and consider their impact and significance on policy but also on governance and society. This course is offered concurrently with CPO 4774; graduate students will have additional work.

CPO 5797 Geopolitics
3 sh (may not be repeated for credit)

Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold war period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which 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.

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

**CRW-Creative Writing Courses**

CRW 2001 Introduction to Creative Writing
3 sh (may not be repeated for credit)
Overview and introduction to three genres of creative writing: poetry, fiction, and creative nonfiction. Will be taught as part lecture/discussion and part writing workshop. Credit cannot be received in both CRW 2001 and CRW 2000. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

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

CRW 3110 Fiction Writing
3 sh (may be repeated for up to 6 sh of credit)
Workshop in narrative fiction. Practice in developing plot and character and establishing point of view. Emphasis on writing for publication in specific markets.

CRW 3110 Poetry Writing
3 sh (may be repeated for up to 6 sh of credit)
Workshop in writing poetry. Practice in traditional forms and extensive work in contemporary free verse.

CRW 3244 Playwriting
3 sh (may be repeated for up to 6 sh of credit)
Playwriting is devoted to the analysis and creation of literary drama. Introduces the student to the dramatic elements of plot, scene, character development and motivation, and dramatic action through the study of established playwrights and plays. Students will also submit their own original creative work for discussion and analysis by the professor and class.

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

CRW 4211 Creative Non-Fiction
3 sh (may be repeated for up to 6 sh of credit)
Writing workshop in which students explore the personal essay through the process of reading and writing about autobiography, travel, science, politics, and art.

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

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

CRW 6130 Workshop in Fiction Writing
3 sh (may not be repeated for credit)
Writing, editing, and evaluating fiction. Students will be expected to write original publishable fiction and critique writing produced in class. Permission is required.

CRW 6331 Workshop in Poetry Writing
3 sh (may not be repeated for credit)
Writing, editing, and evaluating poetry. Students will be expected to familiarize themselves with both traditional forms and free verse. Permission is required.

CRW 6806 Workshop in Teaching Creative Writing
3 sh (may not be repeated for credit)
The teaching of workshop methods used in poetry, fiction, and creative non-fiction writing classes. Emphasis on writing standards, resources, evaluation methods, publishing, and course planning. Permission is required.

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

CRW 6934 Special Topics in Creative Writing
3 sh (may be repeated for up to 12 sh of credit)
A writing workshop with a central theme such as autobiography, nature writing, the persuasive essay, biography, or studies of place. Topics change each term. See department or instructor for specific topic.

**CTS-Computer Tech Skills Courses**

CTS 1120 Introduction to Network Security
3 sh (may not be repeated for credit)
Prerequisite: CNT 1000
Introduction to concepts of computer and network security and currently available technologies, mitigating threats, asset protection techniques against threats.

CTS 3159 End User Support
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 2830
An applied course pertaining to the usual activities that are involved in supporting end users of computers. Addresses the technical capabilities a support specialist needs and the "soft skills" necessary when dealing with clients. Topics include computer facility management, customer service skills, user needs analysis, installing and troubleshooting computer systems, help desk organization, product evaluation, and user training.

CTS 4348 Linux System Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 4634 OR COP 4610
This course focuses on the installation, configuration, and maintenance of modern, open-source operating systems in individual and corporate environments including computer networks that host a variety of servers and workstations. Through hands-on experience, students will learn how a Linux operating system works and how it can be put to use to serve computing needs. Students will also learn how to configure network environments to test the networking capabilities of the operating system.

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.
CYP-Community Psychology Courses

CYP 6005  Community Psychology
3 sh (may not be repeated for credit)
Introduces the student to the field of community psychology which is the branch of psychology that seeks to understand relationships between environmental conditions and the development of health and well-being of all members of a community. Students will study the development of the field of community psychology and its theories and paradigms of research and action. Additionally, students will concentrate on the practice of community psychology.

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

DAA-Dance: Emphs on Activity Courses

DAA 1300  Ballroom Dance
3 sh (may not be repeated for credit)
This course is designed to teach beginner level ballroom dancing steps in the Foxtrot, Waltz, Jitterbug, Cha Cha, Tango, Merengue, Mambo, and the Charleston. In addition, the fitness benefits of social dance, the application of fitness to dance, and a brief history of each dance will be presented.

DAA 2000  Dance Fundamentals
3 sh (may not be repeated for credit)
Dance foundation course for Music Theatre performance. Course focus is on the proper technique needed for dance in the theatre and will cover dance kinesiology, proper warm-up, and foundations of ballet and jazz dance.

DAA 2500  Jazz Dance I
3 sh (may not be repeated for credit)
Instruction and practice in beginning jazz technique comprising of several different jazz styles, basic dance terminology, dance history, and current status of jazz dance in society. Emphasis includes dance as a physical activity as well as an art form.

DAA 2750  Ballet Conditioning and Fitness I
3 sh (may not be repeated for credit)
A beginning level ballet technique class that focuses on building fitness through the medium of dance. Teaches the fundamentals of classical ballet, and is designed to strengthen and develop technique at a beginning level through barre and centre practice. Emphasis is on correct body placement and alignment, strength and flexibility, vocabulary, musicality and movement quality. Designed for non-dancers, dancers, and athletes.

DAA 2751  Modern Dance for Conditioning
3 sh (may not be repeated for credit)
Introduces the student to the principles of modern dance techniques. Emphasis is on correct placement and body alignment, strength and flexibility, movement vocabulary, rhythmic and creative skills.

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

DAA 3004  Dance Styles I
1 sh (may be repeated for up to 2 sh of credit)
Dance styles for the music theatre student in the area of ballet and classical forms of dance.

DAA 3005  Dance Styles II
1 sh (may be repeated for up to 2 sh of credit)
Dance styles for the music theatre student in the area of modern dance, jazz, and tap.

DAA 3006  Dance Styles III
1 sh (may be repeated for up to 2 sh of credit)
Dance styles for the music theatre student in the area of non-western dance.

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

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

DAE-Dance Education Courses

DAN-Dance Courses

DAN 3744  Dance Fitness
3 sh (may not be repeated for credit)
Combines basic fitness and movement principles applied to movements in jazz dance and low-impact elements of ballet. Progressive daily knowledge and skills for dance learning and performance. Also provides the opportunity for students to enhance health and fitness through the medium of dance.

DEP-Development Psychology Courses

DEP 2004  Human Development Across the Lifespan
3 sh (may not be repeated for credit)
Survey of major themes and recent findings in the area of human development across the life span. Emphasis will be on the major transitions from fetal development through death in the physical, cognitive, social, and emotional domains. The impact of ethnic, gender, and cultural factors on development will be examined. Meets General Education requirement in Social Sciences.

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

DEP 3103  Child Development
3 sh (may not be repeated for credit)
Development and behavior of children from infancy to adolescence from two viewpoints: age periods (prenatal, infancy, preschool, school) and areas (physical, intellectual, personality, etc.).
DEP 4222 Autism Spectrum
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 OR CLP 3144 OR DEP 3103
The autism course provides an opportunity for students to learn about autism spectrum disorders (ASD), research methods, the diagnostic process, and programs for assisting individuals identified as having ASD, their families, and professionals who work with them. The course counts three semester hours and is fully online.

DEP 4305 Psychology of Adolescence
3 sh (may not be repeated for credit)
Social, emotional, biological, and intellectual elements of adolescence. Addresses the transitions from childhood to adolescence and from adolescence to adulthood. Application of theories is stressed. Option for partial credit via field experiences.

DEP 4404 Adulthood and Aging
3 sh (may not be repeated for credit)
Physiological, psychological, sociological and economic aspects for young, middle and old adulthood presented within a multidisciplinary perspective. Lifespan objectives are emphasized, including development as a life-long process, with multiple determinants of change, and correspondingly, multiple alternatives for change. Successful aging is also emphasized. Credit may not be received for DEP 4404 and either DEP 4402 or DEP 4401.

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

DEP 5055 Developmental Psychology
3 sh (may not be repeated for credit)
Representative theories of development; methodological issues in developmental research; study of research knowledge in selected areas of developmental psychology. One undergraduate or graduate course in the area of developmental is required.

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

DIG - Digital Media Courses

DIG 3309C 4D Design
3 sh (may not be repeated for credit)
Prerequisite: PGY 2801C
An introduction to the four-dimensional fundamentals of time-based media design. Exercises and projects will introduce to basic concepts of art and design in time. Students will be introduced to the attributes of time and movement, elements of the moving image, serial, sequential, and narrative ordering, moving image editing, sound and image relations, and object and event analysis. Students will be introduced to time-based media as an expressive and communicative art form. Aesthetic, technical, historical, and conceptual issues will be addressed through lectures, demonstrations, exercises, projects, screenings, research, and readings.

DSC-Domestic Security Courses

DSC 3012 Terrorism
3 sh (may not be repeated for credit)
Introduction to terrorism, which examines the history and evolution of terrorism in both international and domestic arenas. Topics will include the causes, motives, means, and organization of terrorism and terrorist groups. Finally, the course will explore governmental and law enforcement responses and programs aimed at terrorism and threats.

DSC 4013 Homeland Security
3 sh (may not be repeated for credit)
Concepts of homeland security in theory and practice; the history and development of the U.S. Department of Homeland Security and its components; terrorism and other threats to U.S. National Security and the issues associated with achieving national security in a free society. The course will also examine the components of Critical Infrastructure, Emergency Management and Preparedness, and Policing, related to the practical application of homeland security initiatives.

DSC 5020 Terrorism
3 sh (may not be repeated for credit)
Critical analysis of major issues related to the study of terrorism. From initially critiquing the numerous conceptualizations of terrorism, the course will then evaluate theories of terrorist activity, the organizational and financial structure of terrorist cells, and the different tactics terrorists adopt in order to fulfill their objectives. The course will explore the contentious and oftentimes violent history of the Middle East and how this part of the world has spawned the development of multiple terrorist groups. Scientifically-based methods of inquiry will be utilized in the study of the extent and impact of terrorism on society.

DSC 6026 Issues in Homeland Security
3 sh (may not be repeated for credit)
This course focuses on topical issues associated with homeland security and terrorism. Topics include the use of intelligence and technology for homeland security and to combat terrorism, the importance of a critical infrastructure for homeland security, emergency management, preparedness, and response and recovery. Describes and critiques current resources and initiatives related to homeland security and terrorism. Offered only in the Fall Semester.

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

EAB-Exper Analy of Behavior Courses

EAB 4704 Introduction to Behavior Modification
3 sh (may not be repeated for credit)
Principles and practical application of behavior modification techniques in a wide variety of settings: school, home, medical and business. Especially appropriate for non-psychology majors.

EAB 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EAB 5705  Advanced Behavior Modification
3 sh (may not be repeated for credit)

Students must take EXP 4404, or have an undergraduate degree in Psychology before enrolling in this course. Experimental psychology literature surveyed for relevant theories and techniques for dealing with problems in human behavior in a variety of settings including home, school, business and clinic.

EAB 5738  Behavioral Medicine
3 sh (may not be repeated for credit)

Application of psychological expertise to problems in medicine. Emphasis primarily on role of behavioral principles and techniques in the treatment of medically related complaints and traditional psychosomatic disorders.

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

EAS-Aerospace Engineering Courses

EAS 4020  Introduction to Flight
3 sh (may not be repeated for credit)
Prerequisite: EML 3016

Basic aerodynamics, airfoil design and characteristics, and flight control surfaces.

ECO-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. Meets General Education requirement in Social Sciences.

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 3106  Behavioral Economics
3 sh (may not be repeated for credit)
Prerequisite: (ECO 2013 AND ECO 2023) OR (ECO 3003 AND MAR 3023)

The study of many situations where and consequences from human decisions that deviate from basic economic theory, often in predictable ways. From a consumer standpoint, understanding this behavior helps us avoid outcomes we regret. From a business perspective, the same understanding teaches us how some firms profit from the behavior.

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 3504  Public Policy
3 sh (may not be repeated for credit)

This course examines the role of the public sector in the economy. The aim of the course is to provide an understanding of the reasons for government intervention in the economy, the extent of that intervention, how government actions affect the economy including the response of private agents to these actions, and how the government finances its operations through taxation.

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

ECO 4401  Introduction to Mathematical Economics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

ECO 4431  Business and Economic Forecasting
3 sh (may not be repeated for credit)
Prerequisite: (ECO 2013 AND ECO 2023 AND STA 2023) OR ECO 3003

Provides the student with alternative forecasting techniques with applications to processes that occur in business and economics. Students will learn what are the typical forecasting techniques 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.
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<th>Course Code</th>
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<td>ECO 4905</td>
<td>Directed Study</td>
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<tr>
<td>ECO 4941</td>
<td>Economics Internship</td>
<td>1-6 sh</td>
<td>(may not be repeated for credit)</td>
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<tr>
<td>ECP 3301</td>
<td>Principles of Environmental Economics</td>
<td>3 sh</td>
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<tr>
<td>ECP 3530</td>
<td>Health Economic Policy</td>
<td>3 sh</td>
<td>ECO 2023</td>
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<tr>
<td>ECP 4302</td>
<td>Environmental Economics and Policy</td>
<td>3 sh</td>
<td>(ECO 2013 AND ECO 2023) OR ECO 3003</td>
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<tr>
<td>ECP 4314</td>
<td>Natural Resources Economics</td>
<td>3 sh</td>
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<td>ECP 4413</td>
<td>Industrial Economics</td>
<td>3 sh</td>
<td>ECO 2023</td>
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<tr>
<td>ECP 4414</td>
<td>Natural Resources Economics</td>
<td>3 sh</td>
<td>ECO 2023</td>
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<tr>
<td>ECP 4613</td>
<td>Urban and Regional Economic Development</td>
<td>3 sh</td>
<td>(may not be repeated for credit)</td>
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<tr>
<td>ECP 4704</td>
<td>International Trade and Commercial Policy</td>
<td>3 sh</td>
<td>(ECO 2013 AND ECO 2023) OR ECO 3003</td>
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<tr>
<td>ECP 5905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
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<td>ECP 6005</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>ECP 6905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
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**ECP-Economic Problems Policy Courses**

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<tr>
<td>ECP 4403</td>
<td>ECONOMIC PROBLEMS POLICY COURSES</td>
<td>1-12 sh</td>
<td>(may be repeated indefinitely for credit)</td>
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<tr>
<td>ECS 6905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>(may be repeated indefinitely for credit)</td>
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**ECS-Econ Systems Development Courses**

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<tbody>
<tr>
<td>ECS 6905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>(may be repeated indefinitely for credit)</td>
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ECT-Education: Career/Tech Courses
ECT 3004 Principles of Career and Technical Studies
4 sh (may not be repeated for credit)
Provides an opportunity to develop philosophy of career and technical
studies through the understanding of basic concepts and principles
underlying education of occupational competency. Credit may not be
received in both ECT 3004 and EVT 3065.
ECT 3183 Course Construction for Career and Technical Training
3 sh (may not be repeated for credit)
Organization of instruction for career and technical teaching.
Evaluation of career and technical philosophy in determining objectives
and constructing course materials in career and technical studies
programs. Credit may not be received in both ECT 3183 and EVT
3165.
ECT 3367 Career and Technical Instructional Evaluation
3 sh (may not be repeated for credit)
Testing and evaluating career and technical instruction. Methods
of evaluating student progress in all levels of career and technical
instruction; emphasis on principles, preparations, administration, and
evaluation of picture, performance, oral, and written exams. Credit may
not be received in both ECT 3367 and EVT 3367.
ECT 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
ECT 3945 Problem-based Investigations in CTE
3 sh (may not be repeated for credit)
Students will identify, research and provide solutions for problems in
industrial-vocational environment.
ECT 4380 Special Methods in Career and Technical Studies
4 sh (may not be repeated for credit)
Provides an opportunity to become proficient in using special methods
and procedures in career and technical studies classes. Credit
may not be received in both ECT 4380 and EVT 4380.
ECT 4560 Selection and Guidance of Career and Technical Studies
3 sh (may not be repeated for credit)
Methods of selecting and guiding students into career and technical
education programs. Emphasis on career selection and placement
procedures. Credit may not be received in both ECT 4560 and EVT
4560.
ECT 4562 Introduction to Career and Technical Special Needs
Education
3 sh (may not be repeated for credit)
Introduces historical evolution, legislative development and
instructional methodologies in career and technical special needs
education. Credit may not be received in both ECT 4562 and EVT
4562.
ECT 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
ECT 4930 Seminar
3 sh (may not be repeated for credit)
ECT 5566 Career and Technical Special Needs Education
3 sh (may not be repeated for credit)
Historical developments, legislation, instructional strategies and
problems associated with instructing special needs students in career
and technical studies related environments. Credit may not be received
in both ECT 5566 and EVT 5565.
ECT 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
ECT 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EDA-Educational Administration Courses
EDA 3905 Directed Study
1-12 sh (may be repeated for up to sh of credit)
EDA 5191 Leadership in Education: School Improvement Theory and
Practice
3 sh (may not be repeated for credit)
Leadership theories and planning models which have been developed
through studies in education, business, industry, and the military
will be examined. Application of these will be made to educational
practices with a focus on continuous improvement and on the school
improvement process.
EDA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EDA 6063 Introduction to Educational Leadership
3 sh (may not be repeated for credit)
An introduction for graduate students to the educational leadership
program. Major topics will be leadership, William Cecil Golden
Modules, Code of Ethics, communication—both verbal and nonverbal,
and interpersonal skills. Permission is required.
EDA 6222 Administration of School Personnel
2-3 sh (may not be repeated for credit)
Focus is on the improvement of educational programs through
the proper management of human resources. Emphasis is upon
recruitment, selection placement, and evaluation of school personnel.
EDA 6232 Law and Education
3 sh (may not be repeated for credit)
Examines law and its relationship to education. Students study
constitutional law, legislative enactments, school policies, and the
relationships among these aspects of school law as they pertain
to administration. Tort liability, due process for students, corporal
punishment, teacher contracts, and other law relating to authority and
responsibility of teachers and administrators are included.
EDA 6240 Introduction to School Finance
3 sh (may not be repeated for credit)
Focus is on principles, trends, and practices in financing public
education, including federal, state, and local financial support
programs. School finance as related to taxation and other areas of
school finance is included. Fiscal policies, planning, and management
as related to the total education program are central themes.
EDA 6503  The Principalship  
3 sh (may not be repeated for credit)  
Prerequisite: EDA 6063  
Students will focus on problems, practices and theories pertinent to the success of building level administrators in elementary, middle and high schools. This course includes planning, staffing, implementation and evaluation techniques necessary to administer an effective school program. Practicum experiences are designed to provide a clinical setting for the demonstration of theory applied to practice and will be an integral part of the course.

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

EDA 7905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

EDA 7931  Seminar with High Performing Educational Leaders  
3 sh (may not be repeated for credit)  
Provides exposure for educational leadership students to high performing educational leaders. Students will interact with high performing leaders, study current research in educational leadership, develop group experiences in theoretical problems and solutions, and spend observation time in the work site of a high performing educational leader.

EDA 8103  Theories of Administration and Leadership  
3 sh (may not be repeated for credit)  
This course will address theories and theorists focused in the areas of administration, management and leadership. The course will include completing a literature review, developing a theoretical framework, and examining foundational constructs of multiple theorists.

**EDE-Educational: Elementary Courses**

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

EDA 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.

EDA 4201  Planning and Curriculum II  
3 sh (may not be repeated for credit)  
Prerequisite: ((EDA 4200 AND SCE 4310*) AND (LAE 3314* OR MAE 4310* OR SSE 4113))  
This course is designed to assist prospective teachers to use their knowledge of content and pedagogical methods as a basis for developing skills in planning integrated elementary curriculum. Students will implement the knowledge gained through lower division content-specific courses and upper division methods courses to create interdisciplinary units of instruction that are designed to facilitate elementary children’s learning across all content areas.

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

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

**EDF-Edu: Found Policy Study Courses**

EDF 1005  Introduction to Education  
3 sh (may not be repeated for credit)  
Consideration of career opportunities in the field of education, including clinical experiences in selected agencies / institutions.

EDF 2085  Teaching Diverse Populations  
3 sh (may not be repeated for credit)  
Provides students with the opportunity to explore personal values and attitudes toward cultural diversity. The theoretical component will examine the issues of education in a culturally diverse society. Attention will be given to skills necessary to deal with people from various cultural, economic, and philosophical backgrounds. In our global society, it is imperative that students in various fields understand multiculturalism and the impact of exceptionalities, culture, family, gender, sexual identity, socioeconomic status, religion, language of origin and ethnicity on human interactions especially as this applies to an educational setting. Meets Multicultural Requirement.

EDF 3234  Applied Foundations of Education  
3 sh (may not be repeated for credit)  
The course focuses on principles of growth, development and learning in the context of teaching in contemporary schools, and may include observation/participation in educational settings. Methods of formal and informal assessment, measurement, and evaluation are addressed, as is the analysis of educational phenomena in America and other countries from interpretive, normative and critical perspectives.

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

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

EDF 6218  Psychological Foundations for Education: Learning and Instruction  
3 sh (may not be repeated for credit)  
Examines current theories of learning, behavior, cognitive development, and instruction and their practical application in educational practice. Beyond theories and their application they 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.

EDF 6222  Concepts of Applied Behavior Analysis  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226  
Concepts of Applied Behavior Analysis using B.F. Skinner's writings as a primary source in addition to other historical contributors to the field. The course may be organized around a given theme.
EDF 6223  Applied Behavior Analysis and System Support
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225 AND EDF 6226
This course provides information on the fundamental elements of behavior change and specific behavior change procedures. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Fourth Edition Task List. This course serves as the third in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the third in a series of four courses that prepares students to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6224  Supervision and Management Fluency
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226
This course provides students with the applied knowledge for personnel supervision and management when implementing Applied Behavior Analysis. Students will be able to establish clear procedures and approaches to personnel management using Applied Behavior Analysis methods and improved client outcomes via precise data collection. The content is based on the Behavior Analyst Certification Board (BACB) Fifth Edition Task List in its entirety. This course is part of a verified course sequence that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the Board Certified Associate Behavior Analyst (BCaBA) exam.

EDF 6225  Foundations of Applied Behavior Analysis in Education
3 sh (may not be repeated for credit)
This course serves as a basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts. The content is based on the Behavior Analyst Certification Board (BACB) Foundational Knowledge Companion to the BACB Fourth Edition Task List in its entirety. This course serves as the first in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or the first in a series of four courses that prepares students to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6226  Behavioral Assessments, Interventions, and Outcomes in Education
3 sh (may not be repeated for credit)
Prerequisite: EDF 6225
Participants learn to identify behaviors appropriate for change using behavioral assessment, selecting behavioral outcomes, selecting behavioral strategies, and ethical and professional issues relevant to the practice of behavioral assessment and choosing behaviors to change. Content is drawn from the Behavior Analyst Certification Board (BACB) Fourth Edition Task List. This course serves as the second in a series of courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam.

EDF 6227  Experimental Analysis of Behavior
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226 AND EDF 7437 AND EDF 7944
Foundational knowledge and concepts of experimental analysis of behavior to include demonstrating the operations of principles of behavior in the context of basic research in multiple areas of investigation such as schedules of reinforcement, stimulus control, conditioned reinforcement choice, and establishing/motivating operations.

EDF 6437  Measurement and Single Case Design
3 sh (may not be repeated for credit)
Prerequisite: EDF 6222 AND EDF 6225 AND EDF 6226
This course provides students with concepts in measurement and design of single case methodology to establish reliable intervention procedures, positive behavior change, systems support, while adhering to management, supervision, and ethical and professional issues relevant to the practice of behavioral intervention and research design. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Task List. This course serves as the fourth in a series of courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam or to apply for the Board Certified Associate Behavior Analyst (BCaBA).

EDF 6460  Foundations of Measurement
3 sh (may not be repeated for credit)
Provides an understanding of the nature of instrument and test development and focuses on the information and skills needed to design, develop, analyze, and interpret tests and instruments; the use of testing or instrument results in planning, monitoring, and evaluating instruction or programs; and to evaluate student or program progress. Intended to provide a foundation in testing and instrument development skills for those who work in a variety of applied settings.

EDF 6464  Applied Program Evaluation
3 sh (may not be repeated for credit)
Provides an introduction to program evaluation design, development, and implementation. Students will become familiar with a wide range of evaluation strategies, as well as how to interpret, use and communicate formative and summative evaluation results. These skills will be practiced through an applied research focus on using qualitative and quantitative data collection and analysis strategies to develop organizational accountability systems.

EDF 6481  Educational Research
3 sh (may not be repeated for credit)
Develops skills for evaluating and for conducting applied research studies in an appropriate area of emphasis. Includes strategies of research appropriate for particular area of emphasis and methods appropriate for those strategies. Students are required to select a problem, perform a review of the research literature, plan a research study, and write a research proposal.

EDF 6557  Ethics in Applied Behavior Analysis
3 sh (may not be repeated for credit)
Prerequisite: EDF 6222 AND EDF 6225 AND EDF 6226
In this course, participants learn the issues relevant to ethical and professional conduct in applied behavior analysis including consent, conflict of interest, assessment, behavior change, monitoring, reporting, and applicable law. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Professional and Ethical Compliance Code for Behavior Analysts. This course serves as one of the final courses in a series of six courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam. Students requiring additional hours in ethics for the Board Certified Associate Behavior Analyst (BCaBA) exam are also welcome to take this course.
EDF 6602  Trends and Issues in Education: Social, Multicultural, Historical and Philosophical Analysis  
3 sh (may not be repeated for credit)  
Enables students to develop skills as empowered persons and professionals and use critical and analytical thinking skills to demonstrate an understanding of the history and philosophy of education and an increased awareness of multicultural and other critical issues in education.

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

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

EDF 6905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
EDF 6943  Supervised Experience in Single Case Design  
1-3 sh (may be repeated for up to 9 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 6944  Advanced Single Case Design  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226 AND EDF 7437  
This course provides students with an applied environment to practice measurement and design of single case methodology using reliable intervention procedures, positive behavior change, systems support, while adhering to management, supervision, and ethical and professional issues relevant to the practice of behavioral intervention and research design. The content is based on specific topics via the Behavior Analyst Certification Board (BACB) Task List. This course serves as one in a series of courses that prepares students to apply for the Board Certified Behavior Analyst (BCBA) exam.

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. 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. Theories to be studied include Behaviorism, Cognitive Development Theory, Ecological Theory, Information Processing Theory, Motivation Theory, Psycho-social Theory, and Social-Cognitive Theory.

EDF 7404  Quantitative Methods and Educational Statistics I  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 7938  
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. This course presumes an understanding of basic statistics. Thus, students should complete the online statistics tutorial before enrolling.

EDF 7407  Quantitative Methods and Educational Statistics II  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 7404  
This course is designed as an intermediate statistics course for students who work in applied settings in education and the social sciences.

EDF 7468  Advanced Program Development and Evaluation  
3 sh (may not be repeated for credit)  
Focusing on leading evaluation approaches and providing an in-depth examination of evaluation theory, this course will encourage students to critically examine and discuss current and emerging variations in theoretical evaluation development. These relationships will be analyzed through an applied research perspective designed to illuminate and evaluate the effectiveness of organizational program strategies dealing with societal concerns. Grant funding methods will be introduced as an intervention tool in this process.

EDF 7475  Qualitative Research I - Methods  
3 sh (may be repeated for up to 6 sh of credit)  
This course is to prepare doctoral students for the process of designing scholarly research in general and their dissertation in particular. This course will guide students in constructing a qualitative design methodology section and developing the necessary skills required for critical evaluation of published research in their area of expertise. In addition, this course will provide insight to conducting ethical research and will guide students in identifying and designing a study using qualitative methods approach. The course focuses on the design and implementation of research that utilizes qualitative data collection and analysis.

EDF 7476  Survey Research  
3 sh (may not be repeated for credit)  
Designed as an entry level course in survey research and includes design and selection of questionnaires and interviews as data collection instruments in both quantitative and qualitative research that is conducted in applied settings. Topics to be discussed include: introduction to survey research; sampling strategies in survey research; methods of data collection in survey research; survey measures and interviewing; data analysis in survey research; and ethical issues in survey research.

EDF 7478  Advanced Qualitative Research  
3 sh (may not be repeated for credit)  
This course includes a review of the types of qualitative research methodologies and extends these concepts to an advanced level. Also, the course establishes a baseline of advanced qualitative research skills and methodologies in preparation for moving from face-to-face toward virtual environments.
EDF 7489  Mixed Methods Research Design  
1-3 sh (may not be repeated for credit)  
Identify a potential dissertation topic, analyze and synthesize research on the topic, and produce a concept paper for the dissertation to be presented to the dissertation committee. Study the application of both qualitative and quantitative research methodologies towards addressing a research problem. Apply concepts from educational research in synthesizing current research articles for the development of a research project. Gain expertise in educational research that will facilitate student research agendas for action research, thesis research, and dissertation research.

EDF 7536  Cultural Competence and Education of Marginalized Ethnic Groups  
3 sh (may be repeated for up to 6 sh of credit)  
This course presents students with cultural-specific information about marginalized groups within an educational setting. The course sheds light on how important it is in educating marginalized groups to be culturally sensitive, and the need to accept and respect the differences of the worldview particularly of those on the fringes of society.

EDF 7537  Education and Marginalization: Gender, Sexuality, Aging and Disabilities  
3 sh (may be repeated for up to 6 sh of credit)  
The course provides an overview of issues affecting marginalized students in K-12 institutions. Topics include gender, sexuality, ageism, disability, and the emergence of institutions that serve special populations. A critical review of research on the above topics and the policies and discourse regarding gender, sexuality, ageism and disabilities will also be conducted.

EDF 7538  Education and Marginalization: Second Language Acquisition, Socioeconomic status  
3 sh (may be repeated for up to 6 sh of credit)  
The course gives an overview of issues related to second language acquisition, socioeconomic status and immigration. This course will help students be knowledgeable about different practices and policies related to the education of students in marginalized communities in the United States and other places in the world.

EDF 7539  Theoretical Perspectives Underpinning Marginalization  
3 sh (may be repeated for up to 6 sh of credit)  
This course provides theoretical and philosophical overviews on poverty in the United States and other countries, as well as policies used to eradicate poverty. While education is important with regard to understanding and fighting poverty, the course will also draw from different fields, including philosophy, economics, and sociology. The course exposes students to competing theories of marginalization and different governmental and community practices aimed at uplifting the status of the marginalized.

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. Students pursuing the Doctorate of Education degree must earn a grade of B or better in all courses counting toward the degree.

EDF 7538  Social Change and Reform  
3 sh (may not be repeated for credit)  
Analyzes different perspectives on agency and the structure of social change and reform. It examines the historical, cultural, social, economic, and political factors that lead ordinary citizens to join together as a collective group to promote social change and reform. Utilizing real life case studies from organizations for social change, students will interrogate the dynamics of social and cultural change in democratic societies with a special focus on social movements and collective behavior. The two aspects of the course, social change and reform, will be analyzed to reveal the critical aspects of vibrant democracies, civic engagement, and grassroots movement.

EDF 7608  Educational Systems  
3 sh (may not be repeated for credit)  
This course focuses on understanding the interrelationships between socioeconomic status and education, as well as the relationships between educational opportunity and achievement. The course will explore how income groups, particularly lower income groups in America and other regions of the world, access education and persist through graduation. This course further explores civil and human rights campaigns since 1945. The course examines the origins, outcomes, and the ways in which these campaigns drew from and contributed to an emerging international framework. The course will look at issues of women's rights and sexual liberation, freedom of speech, economic justice and unfair trade. The relationships between universal notions of justice and differences of gender, culture and belief, and potential differences between local and global understandings of 'rights' are also covered.
EDF 7730  Administration and Leadership Communication Techniques  
3 sh (may not be repeated for credit)  
This course will focus on specific effective professional communication efforts of administrators and leaders from military, social agencies, educational settings, and organizational environments, including non-profit agencies and organizations. Skills emphasized in the course include: Oral and written presentations for varied audiences and technology-rich communications for leading organizations and developing communicative organizational environments.

EDF 7790  Foundations of Doctoral Research and Writing  
3 sh (may not be repeated for credit)  
The central purpose of this course is to provide students with the information and orientation needed to successfully navigate the doctoral program. In addition to reviewing the policies and procedures of doctoral study (choosing an advisor, engaging in coursework, forming a committee, taking preliminary/comprehensive exams, designing a research study, conducting research, and defending a prospectus and dissertation), students will also study the behaviors and dispositions needed to be an educational researcher and scholar, including what it means to read, think, and write critically. Students will explore how to develop a sense of themselves as a scholar and to take ownership over their own education, including setting goals, identifying opportunities, and developing a research agenda. In addition, the course will include an introduction to research designs.

EDF 7905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
EDF 7912  Educational Specialist Degree Capstone Course  
3 sh (may be repeated for up to 6 sh of credit)  
The capstone course is to be taken as the last course in the Educational Specialist Degree Program in Curriculum and Instruction during the 33-36 credit hours. The capstone project provides the opportunity for the student to explore and investigate a topic of interest emerging from the cumulative knowledge of the coursework pursued. The selected topics for the capstone project should address an existing concern, problem or issue in an organization or institution of interest to the student. Through an analysis of theoretical, empirical, and conceptual literature the student will conduct research and complete a capstone project under the guidance of a faculty member within an 8-week period. The capstone project serves as a gauge of students' learning indicative of their post-graduation success as well as a dossier for employment.

EDF 7930  Virtual Survey Research for the Social Sciences  
3 sh (may not be repeated for credit)  
This course focuses on methods and ethics related to conducting online research interviews and surveys. Students will determine the appropriateness of online (virtual) interviews and other survey methods within virtual research environments. The course includes multiple online types of research efforts and survey methodologies. Topics to be discussed include: introduction to virtual survey research; methodologies for conducting virtual survey research; creating virtual survey interviews; and responsible conduct of research and virtual survey research.

EDF 7934  APA Seminar  
0 sh (may be repeated for up to 0 sh of credit)  
This self-paced, online, noncredit-bearing course spread the first academic year of admission into the Ed.D. or Ed.S. programs. The course will be organized into six modules in total. Students will complete two modules every semester to improve scholarly writing abilities and accurate resource referencing practices needed for the successful completion of the coursework and the dissertation project.

EDF 7938  Preparatory Educational Statistics  
0 sh (may be repeated for up to 0 sh of credit)  
This self-paced, online, noncredit-bearing course takes place during the first academic year of admission into the Ed.D. or Ed.S. programs. The course will be organized into six modules in total. Students will complete modules every semester to improve quantitative research methods and statistics familiarity.

EDF 8059  Instrumentation Development and Validation Using Virtual Environments  
3 sh (may not be repeated for credit)  
This course includes the nature of measurement theory and methodology of reliability estimation and validation using virtual environments and considerations. Course emphasis is on applications of instrumentation for assessment, research, and evaluation uses within virtual environments. Topics to be discussed include: introduction to logical, statistical, and empirical measurement; and reliability models and validation principles; scaling, scoring, and measurement principles within virtual environments.

EDF 8088  Diversity & Civil Rights in Education  
3 sh (may not be repeated for credit)  
The purpose of this course is to analyze, synthesize, and evaluate the ideological, cultural, political, economic, and educational delivery systems in the segregated South. Analysis of oppressive systems, literature, primary sources, sites, and biographies that inspired the acceptance of diversity are evaluated.

EDF 8289  Curriculum Design  
3 sh (may not be repeated for credit)  
This course incorporates recent general developments in curriculum theory and construction. Reviewing current specific curriculum models, plans, and guidelines provide students with the ability to analyze and interpret curriculum and instruction programs. This course further explores historical, sociological, psychological, and philosophical foundations of curriculum models, theory, and design.

EDF 8406  Quantitative Methods and Educational Statistics III  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 7404 AND EDF 7407  
Provides the student with the necessary skills required to conduct educational research and analyze results at an advanced level. 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 8438  Social Network Analysis and Data Visualization  
3 sh (may not be repeated for credit)  
This course provides students with the various concepts, methods, and applications related to measures on groups of individuals. Topics include the nature of social network data visualization, embedding, dyadic and triadic analysis, centrality, and egocentric networks. These topics will focus on actions surrounding virtual environments in the social sciences.
EDF 8446 Instrument Development and Validation  
3 sh (may not be repeated for credit)  
Provides an understanding of the nature of measurement as well as the underlying theory and methodology of reliability estimation and test validation. Emphasis is on applied skills such as the conceptualization, development, and validation of instruments for assessment, research, and evaluation. Topics include the logical empirical, and statistical models of measurement processes with emphasis on scaling, reliability and validity. It will function as both a seminar and practicum within which the student will acquire applicative skills in the process of providing evidence of instrument reliability and validity.

EDF 8469 Advanced Program Evaluation Using Virtual Environments  
3 sh (may not be repeated for credit)  
This course focuses on program evaluation theories and practices. The course includes evaluation designs by scholarly theorists and extends evaluation theory to virtual environments. A strong component of the course is the development of program evaluation proposals for virtual environment designs with appropriate technological support. Topics to be discussed include: introduction to advanced program evaluation; theory and program evaluation; and program evaluation and virtual environment.

EDF 8483 Digital and Archival Media Analysis  
3 sh (may not be repeated for credit)  
This course provides opportunities for students to explore a variety of investigative methods related to fundamental historicographic skills and strategies for archival investigations to digital and multi-dimensional scaling. Analytic endeavors that seek to gain insights through media analysis and other material artifacts are included in the course. Topics to be discussed include: introduction to archival media; digital analysis; archival investigations; and multidimensional scaling.

EDF 8486 Advanced Topics in Quantitative Research and Educational Statistics  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: EDF 7404 AND EDF 7407  
The 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 8493 Assessing Educational Programs  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 7667  
The course examines current evaluation models used to assess programs implemented in various educational settings. Students will explore and analyze the application of evaluability assessment in multiple settings and the use of methodological scoping as part of evaluability assessment. Additionally, students will utilize various models and instruments to evaluate existing educational programs.

EDF 8609 Perspectives of Contemporary Social Theories  
3 sh (may not be repeated for credit)  
This course will focus on major perspectives in contemporary social theories. It covers areas such as feminism, post-modernism, social constructionist, multiculturalism, hermeneutic, hegemony, double-consciousness, post-colonialism, critical theories, social/cultural capital, core-periphery, social reproduction, and other theories. This course is designed to provide an extensive study of social theories in the field of education. The historical/social milieu that gave birth to the theories will be examined. In addition, the major tenets of the theories and their implications for educational policy and practice will be critiqued. Further the strengths and weaknesses of the theories will be interrogated.

EDF 8698 Censorship  
3 sh (may not be repeated for credit)  
An in-depth study of censored literature and its effects on the existing political economy, ideological beliefs, and cultural diversity including the effects of single purpose interest groups will be discussed. Readings are centered around novels which have been challenged throughout the United States.

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

EDF 8888 Seminar: Special Topics Related to Minority Groups  
3 sh (may be repeated for up to 9 sh of credit)  
Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U. S. society will be examined. Permission is required.

EDF 8905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
EDF 8931 Doctoral Seminar I: Background Paper  
3 sh (may not be repeated for credit)  
This is the first of a series of four-sequenced doctoral seminars for students in their 33rd semester hour of coursework. The first seminar focuses on assisting students in identifying a topic, developing appropriate research questions, and stating a problem. In addition, the seminar seeks to assist students to develop an outline of a literature map for a literature review related to an identified phenomenon. In addition, the seminar will strengthen students' scholarly writing capabilities, improve synthesis skills, assist in critiquing research, reviewing literature, mastering APA citation style, examining the role of theoretical and or conceptual frameworks in framing research studies, and exploring issues of alignment between topic, problem, research questions, theoretical framework and methodology in research studies. The capstone paper for Doctoral Seminar I is an extensive Background Paper.
EDF 8932  Doctoral Seminar II: Comprehensive Exam
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: EDF 8931
This is the second in the series of four-sequenced doctoral seminars courses for students who have completed 48 semester hours in their doctoral course work. This second doctoral seminar serves as the doctoral students’ written and oral comprehensive examination. Additionally, the seminar focuses on the following: demonstrating synthesis across ideas, content areas, and courses; demonstrating specialization of knowledge within a particular domain; demonstrating in-depth competency within program areas; integrating content from program courses with professional/experiential knowledge; and supporting initial work efforts toward the dissertation. Further, students will orally defend their written responses to the examination questions before their Doctoral and Comprehensive Examinations Committee. Students who successfully complete the written and oral components of the examination are admitted to the Advanced Standing phase in their doctoral journey.

EDF 8933  Doctoral Seminar IV: Proposal
3 sh (may not be repeated for credit)
Prerequisite: EDF 8931 AND EDF 8932 AND EDF 8935
This is the fourth of the series of four-sequenced doctoral seminar courses for students in their doctoral journey. This fourth doctoral seminar serves as the doctoral students’ dissertation proposal phase. This semester-long (16 week seminar will focus on student readiness and competence for pursuing research objectives outlined in the Doctoral Student Toolbox Structural Guidelines. Additionally, this seminar guides students in demonstrating their ability to integrate and apply the knowledge and skills developed through formal course work by designing and writing an original research proposal on a researchable topic or phenomenon in accordance with the UWF Structural Guidelines for Proposals and Dissertations. Students should successfully defend their proposals orally to their Doctoral Dissertation Committee. Obtaining two unsatisfactory grades at this level may result in the removal of the student from the doctoral program.

EDF 8935  Doctoral Seminar III: Pre-proposal
3 sh (may not be repeated for credit)
Prerequisite: EDF 8932
This is the third in a series of four-sequenced doctoral seminar courses for students in their doctoral journey. This third doctoral seminar serves as the doctoral students’ pre-proposal phase. Additionally, this doctoral seminar course will introduce students to the process of formulating ideas in ways directly related to critical aspects of their proposal. This seminar will also guide doctoral students in addressing issues relating to the introductory, literature review and methodology chapters of the dissertation proposal. Students shall complete the "Pre-proposal Document," which is designed to be a guiding document for chairs and students to serve the purpose of providing committee members with a sufficient roadmap about what the student intends to do and at the same time allow students to respond to ethical issues related to the study. Students shall defend the "Pre-proposal Document" to the Doctoral Dissertation Committee.

EDF 8936  Advanced Qualitative Research and Strategies: Special Topics
3 sh (may be repeated for up to 9 sh of credit)
Student will develop advanced skills required to conduct education research and analyze results. Emphasis is placed on aligning research methodology with appropriate data analysis strategies for a particular purpose and set of research questions.

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

EDF 8980  Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.

**EDG-Education: General Courses**

EDG 2041  Exploring Inquiry Teaching
3 sh (may not be repeated for credit)
Developed for students who wish to explore teaching careers in math or science, this course will engage participants in authentic experiences observing, designing, and delivering inquiry-based math and/or science lessons for older children and young adolescent learners (ages 10-14) in formal and informal educational settings. Participants will be required to complete a background check, and provide their own transportation to the field placement site, which will be a local elementary or middle school, or informal educational setting (e.g., museum, science center).

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

EDG 3323  Methods of K-12 Literacy Instruction
3 sh (may not be repeated for credit)
This course provides K-12 pre-service teachers with dynamic methods of planning, presenting, and assessing literacy instruction for all learners. Course content and learning activities focus on applying knowledge and skills related to effective teaching and learning in the various content areas.

EDG 3661  Adult Learning Theory and Curriculum Development
3 sh (may not be repeated for credit)
Examines the unique characteristics of adult learners and their impact on the design and development of education and training programs. Addresses adult learning theories and the role of motivation, relevance and autonomy in adult learning.

EDG 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
EDG 3945  Field Experience 1  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 3234  
This field experience includes carefully planned and designed course assignments and activities, with students working in a classroom setting for a minimum of 100 hours in a field placement. Successful students will develop proficiency on the Florida Educator Accomplished Practices Competencies. This experience includes: focused and specific observations, activities, and reflection with the purpose of directly connecting the teacher education curriculum to the practical aspects of teaching in a classroom setting. Permission is required.  
EDG 4077  Learning In Informal Environments  
3 sh (may not be repeated for credit)  
Students will explore the variety of settings that offer informal learning opportunities such as museums, science discovery centers, child care programs, outdoor programs, adult and continuing education. The demands of these environments are varied and are often considered free-choice? education options. Therefore, the skills and tools for communicating messages to varied audiences in these settings can be very different from the traditional classroom instruction. We will explore and practice motivation, communication, interpretation, design, evaluation, and promotion.  
EDG 4334  Universal Design for Learning in Informal Learning Environments  
3 sh (may not be repeated for credit)  
This course will prepare students to use the Universal Design for Learning (UDL) framework to create learning experiences for a wide variety of learners across the life span in non-classroom settings such as child care settings, museums, after-school programs, adult learning centers, and libraries. Specifically, students will explore UDL principles including multiple means of representation, action and expression, and engagement. Students will use UDL resources and strategies for planning and evaluating inclusive learning experiences.  
EDG 4351  Educational Assessment  
3 sh (may not be repeated for credit)  
This general assessment course is designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher-constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools; (4) using assessment data to develop instructional plans; and (5) using specialized assessment tools to meet varied student needs.  
EDG 4373  Elementary and Special Education Integrated Arts  
3 sh (may not be repeated for credit)  
Integrates the musical arts, visual arts, and kinesthetic arts/health with the reading, language arts, science, and mathematics curriculum as a basis for instruction. Students learn discipline specific instructional techniques, activities, and content knowledge.  
EDG 4413  Classroom Management  
3 sh (may not be repeated for credit)  
This course focuses on strategies for effective classroom management, with learning activities related to building relationships, organizing the classroom, developing and implementing rules and procedures, teaching effectively, utilizing positive behavior management, and implementing behavioral interventions.  
EDG 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
EDG 4931  Capstone Seminar in Informal Learning and Education  
6 sh (may not be repeated for credit)  
Prerequisite: EDG 4077 AND EDG 4947  
This course provides opportunity for students to demonstrate their achievement of the goals of informal education. The course is designed as a student-centered, content-related learning experience and serves as a summary and synthesis of the experiences in the education program. The process and products of the course are designed to assess cognitive, affective, and dispositional outcomes appropriate to the students’ chosen focus of study.  
EDG 4936  Senior Seminar  
2 sh (may not be repeated for credit)  
Prerequisite: EDF 3234  
Co-requisite: EDG 4940  
Integrates theory, and general professional preparation with actual school practice. Prepares student for achieving initial certification and continuing success in the classroom.  
EDG 4940  Student Teaching  
3-12 sh (may not be repeated for credit)  
Prerequisite: 1 AND 1 AND 1 AND 1 AND 1 AND 1  
Co-requisite: EDG 4936  
The course involves a minimum of ten weeks of supervised teaching in a public or private school assigned to the student by the TEEL Field Placement Office and approved by the TEEL Chair. This is a full-time assignment, and students may not take additional coursework or maintain employment during the student teaching experience without prior approval from the TEEL Chair. Performance in student teaching is graded on a satisfactory/unsatisfactory basis only.  
EDG 4941  Teaching Internship I  
1-12 sh (may not be repeated for credit)  
Teaching Internship I is designed to be the culminating experience for those preparing to become a professional educator. This elite program will provide the student with a 10 month placement in which they will apply all the knowledge they have gleaned from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a master teacher. Phase 1 of this year-long supervised teaching experience in public and private schools will focus on planning and executing effective instruction. (Students will register for this series in successive semesters) Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).  
EDG 4942  Teaching Internship II  
1-12 sh (may not be repeated for credit)  
Prerequisite: EDG 4941  
Internship Internship II is designed to be the culminating experience for those preparing to become a professional educator. This elite program will provide the student with a 10 month placement in which they will apply all the knowledge they have gleaned from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a master teacher. Phase 2 of this year-long supervised teaching experience in public and private schools will focus on classroom management and professional development. (Students will register for this series in successive semesters) Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).
EDG 4944   High Impact Practice Practicum  
3 sh (may not be repeated for credit)  
Co-requisite: EDG 4947  
Students will complete a 10-week high-impact learning experience that integrates service learning and reflection to support career success. The overarching intent of the course is to make linkages between academic content, and applied service learning experience, and students' career plans.

EDG 4947   High-Impact Practice Seminar  
3 sh (may not be repeated for credit)  
Co-requisite: EDG 4944  
This seminar course will present the concept of high-impact practices (HIPs) with an emphasis on collaborative assignments, service-learning, and self-reflection. Students will investigate, analyze, and apply HIPs in varied informal education settings. Learning activities will include students working collaboratively to develop a service learning project to address a community need.

EDG 4948   Apprenticeship Teaching  
6 sh (may not be repeated for credit)  
Prerequisite: ESE 4940  
Apprenticeship teaching is designed to be the culminating experience for those preparing to become a professional educator. This elite program will provide the student with a half-time placement in which they will apply all the knowledge they have gleaned from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a master teacher. This supervised teaching experience in public and private schools will focus on planning and executing effective instruction, classroom management and professional development. Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 4949   Field Experience 2  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 3945 AND TSL 4081  
Students in this course will complete a minimum of 100 hours of supervised work in an assigned educational setting, with 25 hours devoted to an ESOL placement. Students will continue to build connections between theory and practice, demonstrating competency on the Florida Educator Accomplished Practices (FEAPs) and ESOL Performance Standard. Specific learning activities include observation, planning, implementation of planned learning experiences, and assessment of students from diverse backgrounds including students identified as culturally and linguistically diverse (English Language Learners - ELL). Permission is required. Students must satisfactorily complete the FTCE General Knowledge exam and submit an application by the deadline listed on the department website and in the Student Guide. Permission is required.

EDG 5250   Principles of Curriculum Development  
3 sh (may not be repeated for credit)  
Emphasis on school curricula, underlying theories, and strategies for improvement make up the foundation for curricular reform. Students intending to meet SDOE certification requirements should select specialization areas. The specialization areas are (a) early childhood/primary education, (b) middle school education, (d) secondary school education, and (e) exception student education.

EDG 5304   Introduction to Teaching and Learning  
3 sh (may not be repeated for credit)  
Introduces students to the field of education by exploring instructional planning, effective teaching strategies, and professional educator responsibilities. Florida Educator Accomplished Practices are presented to provide an awareness of effective teaching practices and pedagogy. Students observe and participate in a classroom field experience to practice skills of an effective educator as defined in the Educator Accomplished Practices Competencies.

EDG 5309   Inquiry-based Teaching in Secondary Schools  
3 sh (may not be repeated for credit)  
This course will provide students with the opportunity to explore teaching secondary (grades 6-12) math, science, or social studies as a career. Students will observe experienced teachers in the classroom, as well as practice designing and delivering inquiry-based lessons in their discipline. This course requires a minimum of 30 hours of field experience. Participants will be required to complete a background check and provide their own transportation to the field placement site, which will be a local middle or high school.

EDG 5342   Effective Teaching and Instruction  
3 sh (may not be repeated for credit)  
This course is designed to allow participants to explore effective teaching practices and strategies to enhance student learning in the K-12 classroom. Course content begins with a brief overview of research on learning and cognition with an emphasis on implications for classroom practice. Following that, students will investigate research-based effective teaching practices within and across multiple subject areas (e.g., mathematics, history, science) and then deconstruct and reflect on the use of various evaluation models (e.g., Marzano, Danielson) currently being used to gauge and improve the quality of classroom instruction. Lastly, collaborative professional learning strategies for supporting teachers in improving their instruction will be introduced and practiced.

EDG 5345   Educational Assessment for Learning  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 4947  
Students analyze and reflect on professional literature related to assessment for learning. Courses focus on data-driven decision-making. Designed to focus on the construction and use of multiple assessment measures for evaluating student understanding.

EDG 5349   Models of Teaching Math, Science and Social Studies  
3 sh (may not be repeated for credit)  
In Models of teaching, students explore instructional models for teaching in math, science and social studies. Students investigate various models of teaching including inquiry, synectics, problem solving, socratic, cooperative and inductive in order to apply them to their classroom. Students examine the rationale and research supporting each model as well as real-world examples.
EDG 5366  Investigative Strategies and Empirical Foundations in Learning and Development  
3 sh (may not be repeated for credit)  
This course is an introduction to the foundations of empirical research, investigative strategies, and data sources used to study issues in teacher education. It provides an overview of the elements of the research process through the critical analysis of quality peer-reviewed journal articles. The purpose of this course is to provide students with the basic skills and knowledge to identify, analyze, and interpret empirical research; to identify the elements of the research process; and to apply quality peer-reviewed research findings in practice.

EDG 5416  Classroom Management Practices for At-Risk Students  
1 sh (may not be repeated for credit)  
Content focuses on structuring the classroom for success, assessing and managing individual and group behavior/academic achievement, and motivating and managing exceptional and at-risk students. This course is required for students participating in the Professional Educator Preparation Program.

EDG 5446  Classroom Management, Assessment, and Instruction in Secondary Education  
3 sh (may not be repeated for credit)  
This course is designed to provide students with practical information about classroom management, assessment and effective models of instruction. The focus will be on how assessment information can be used to plan and modify instruction, instructional models, and classroom management strategies. Students will be exposed to Positive Behavior Intervention Support systems and assessment techniques.

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

EDG 5940  Graduate Student Teaching  
1-6 sh (may be repeated for up to 6 sh of credit)  
Graded on a satisfactory/unsatisfactory basis only.

EDG 6215  Integrating the Arts into the K-12 Curriculum  
3 sh (may not be repeated for credit)  
Graduate students focus on techniques for instructional integration of the content areas in order to maximize student learning and prepare teachers to meet the needs of all students. Students will demonstrate competencies through the successful completion of a collaborative interdisciplinary unit, individual lessons plans utilizing differentiated instruction, and a best practices research paper and presentation.

EDG 6285  Data Driven Decisions Using Standardized Student Achievement Data  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6460  
Learning, Accountability, and Assessment is one of the new standards in Educational Leadership in Florida and it speaks specifically to the use of data in creating a school environment and curriculum that will enhance student learning. High Performing Leaders must monitor the success of all students in the learning processes to promote effective student performance, and use a variety of benchmarks, learning expectations, and feedback measures to ensure accountability for all participants engaged in the educational process. Using data to drive decisions is a critical component of the accountability system currently in place in Florida. Participants will develop skills in determining data needed to make certain decisions; in analyzing data; in communicating information about the decision making process to stakeholders. Specifically for administrators in the K12 educational setting.

EDG 6288  Educational Assessment  
3 sh (may not be repeated for credit)  
The focus of this course is assessment concepts that are critical for good teaching. Topics include measurement issues to determine assessment quality; teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; and interpreting standardized assessments commonly used in public schools. Required course for students participating in the Professional Educator Preparation Program.

EDG 6415  Issues in Classroom Management  
3 sh (may not be repeated for credit)  
This course is designed for educators with existing capacity regarding classroom management and is intended to advance their understanding and develop a knowledge of systematic models of classroom management. The content will focus on shaping teacher behaviors and structuring the classroom for success. Additionally, focus will be placed on recognizing the various and competing philosophies of classroom management and the benefits of using a systematic model within a classroom or school.

EDG 6662  Integrated Curriculum and Instruction  
3 sh (may not be repeated for credit)  
This is an advanced curriculum course for graduate level education students with a focus on blending content areas to maximize student learning and to prepare teachers to meet the needs of all students across the curriculum. Students will demonstrate competencies through the successful completion of a collaborative interdisciplinary unit, individual lesson plans utilizing differentiated instruction, a best practices research paper and presentation, and a reflective blog analysis.

EDG 6791  Multicultural Education  
3 sh (may not be repeated for credit)  
Designed to acquaint students with basic concepts of multiculturalism including theoretical orientations to (1) the study of race and ethnicity in the United States; (2) race and ethnicity in American institutions; 3) race and ethnicity in popular culture and communities; and (4) the future of race and ethnic relations and the impact on teaching and learning in a pluralistic society.

EDG 6905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)
EDG 6916  Action Research
3 sh (may not be repeated for credit)
Prerequisite: RED 6747 OR EDG 6918

The capstone course in the research sequence involves implementation of the previously-developed action research proposal, in which a problem in the area of education or related field was identified. In this course, the proposed action research project will be implemented. The completed project will consist of a scholarly written paper that adheres to current APA style guidelines.

EDG 6918  Research Practicum
3 sh (may not be repeated for credit)
Prerequisite: EDG 5366

Students focus on the development of applied research strategies in an educational setting and are provided with step-by-step guidance in developing research plans. Students are encouraged to explore both qualitative and quantitative methods of research and are provided with faculty support in design of research projects. The proposal developed in this course will be implemented in a subsequent course, Action Research.

EDG 6945  Professional Education Practicum
1 sh (may not be repeated for credit)

One of three required practica for students participating in the Professional Educator Preparation Program; aligned with three courses (EDG 5416: Classroom Management, EDG 6621: Human Development and Learning, and EDG 6288: Assessment). Requires students to complete a field experience in an educational setting. May be taken during the same semester or after the completion of the aforementioned courses.

EDG 6946  Special Methods Practicum
1 sh (may not be repeated for credit)

One of three required practica for students participating in the Professional Educator Preparation Program; aligned with the Special Methods Course in the student's respective content area. Requires students to complete a field experience in an educational setting that contains ELL/ESOL students. Students will design and implement a subject-area lesson plan. May be taken during the same semester or after the completion of the aforementioned course.

EDG 6947  Reading Instruction Practicum
1 sh (may not be repeated for credit)

One of three required practica for students participating in the Professional Educator Preparation Program; aligned with EDG 3323C (General Methods for Teaching Students K-12) OR RED 6060 (Foundations of Middle/Secondary Literacy). Requires students to complete a field experience in an educational setting and design and implement a reading lesson plan with accommodations. May be taken during the same semester or after the completion of the aforementioned course.

EDG 7008  Assessment Literacy
3 sh (may not be repeated for credit)

This course explores various research-based approaches to assessing student learning; educational programs; and organizational structures, systems, and cultures. Learning activities focus on various approaches to assessing student learning in addition to the role of assessment in various models of measurement and evaluation.

EDG 7070  Managing Learning Environments
3 sh (may not be repeated for credit)

Managing learning environments is required in the educational curriculum and instructional Doctoral program, with a specialization in teaching and learning. The focus is on developing the skills necessary to become instructional leaders in the 21st century. Management of personnel, students, finances, and community resources is discussed.

EDG 7241  Social Justice, Inequalities, and Power: A Global Overview
3 sh (may not be repeated for credit)

This course will provide a global analysis on issues grounded in the structure of power, the origins of inequalities, and the social responses to egalitarianism. Additionally, the course focuses on the interdependence of race/ethnicity, gender orientation, sexuality, human rights, age, disability, and healthcare under the intersectionality of power. The intersectionality as a theoretical framework to analyze marginalization will be interrogated. Other topics include socioeconomic, cultural, social, institutional structures and movements in society’s struggle for inclusion, fairness, empowerment, and eradication of oppression and systemic racism from an educational perspective.

EDG 7256  Assessing Curricula and Educational Programs
3 sh (may not be repeated for credit)

This course examines current evaluation models used to assess curricula and programs implemented in various educational settings. Beyond theories, students will explore the application of evaluability assessment in multiple settings, the methodological scoping as part of evaluability assessment, and using various models and instruments to evaluate existing educational curricula & programs.

EDG 7303  Analysis of Learning and Teaching Practices
1-3 sh (may not be repeated for credit)

Advanced study of theories and research on teaching and learning and their application to instructional practices; emphasis on professional leadership in decision making related to teaching practices and creating or restructuring learning environments.

EDG 7346  Advanced Analysis of Curriculum and Instruction
3 sh (may not be repeated for credit)

 Enables students to utilize research based curriculum and instruction models to analyze and evaluate teaching processes for the purpose of improving instructional programs. Skill development in feedback and coaching techniques and strategies effective in orchestrating change in instructional practices will also be a focus.

EDG 7354  Test, Measurement, & Data Literacy
3 sh (may not be repeated for credit)

This course explores various constructs and concepts in measurement theory, test construction, reliability and validity, item analysis in test development, and test scoring and interpretation.

EDG 7363  Applications of Current Research in Teaching and Learning
3 sh (may not be repeated for credit)

Provides advanced study of the theoretical knowledge bases, methodologies and applications of current research topics in teaching and learning to a variety of subject areas and educational settings. Required for the doctoral specialization in teaching and learning.
EDG 7458  Analysis of Alternative Assessment Methods  
3 sh (may not be repeated for credit) 
Advanced study of current theories and research on assessment with emphasis on alternative methods of assessing learning; designing multiple forms of assessment that tap into higher level thinking and allow students to demonstrate knowledge of processes and skills of problem solving and knowledge of concepts.

EDG 7667  Evaluating Models of Curriculum & Assessment  
3 sh (may not be repeated for credit) 
With a focus on learning outcomes, this course aims to broaden students’ knowledge about designing and assessing curricula in various educational settings ranging from K-12 to higher education. Using various change models, this course offers a practical approach to systemic change with a focus on the relationship between courses and the curriculum.

EDG 7905  Directed Study  
1-12 sh (may be repeated indefinitely for credit) 
EDG 7930  Special Topics and Critical Issues in Teaching and Learning  
3 sh (may not be repeated for credit) 
Advanced study of current topics and issues related to teaching and learning across a variety of classroom lab or alternative settings. Students explore current teaching practices and future needs related to educational programs for learners of various ages.

EDG 7935  Research Design Seminar  
3 sh (may not be repeated for credit) 
Provides students with an understanding of how to undertake a research thesis. Concepts include format, style, literature reviews, hypothesis formulation, research design and statistical application.

EDG 8668  Curriculum and Instructional Strategies for Adult Learners  
3 sh (may not be repeated for credit) 
This course provides an overview of the theories and research that are important for those interested in the instruction of adults (andragogy). Through this course, students will gain a greater understanding of instructional strategies for adult learners and critically examine examples of these approaches.

EDG 8935  Seminar: Advanced Methods in Curriculum and Instruction  
3 sh (may not be repeated for credit) 
This course will explore contemporary research and methodologies in curriculum and instruction in the current era of educational reform and globalization. Emphasis will be placed on understanding factors that influence the development of new curricula and the enactment of reformed instructional practices contained therein, and strategies to support and sustain curriculum change and the adoption of reform practices.

EDG 8980  Dissertation  
1-18 sh (may be repeated for up to 18 sh of credit) 
Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction program. This dissertation will reflect intensive educational research produced by the student and collaboratively developed with the student’s graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required.

* This course may be taken prior to or during the same term.
EDH 6505  Budgeting & Financial Management in Higher Education
3 sh (may not be repeated for credit)

This course is designed to provide students with a general overview of the financing of higher education and a basic understanding of the budgeting process. Students will be provided with a theoretical and practical overview of budgeting and financial management in higher education in general and Student Affairs specifically. Topics will include budget components and processes, the relationship of strategic planning to budgeting, and models for financing the higher education enterprise. Guest speakers from across campus will present perspectives and information related to budgeting and financial management in relation to their professional roles.

EDH 6634  Introduction to College Student Affairs
3 sh (may not be repeated for credit)

The primary goal of this course is to provide the graduate student with a comprehensive introduction to the field of student affairs and its role within the context of American higher education. To that end, students will be introduced to: the philosophical and theoretical bases of the profession; the history of modern student affairs work in higher education; the roles and functions of selected professionals in the field; a review of skills and competencies required for the profession; and current issues and concerns relevant to student services in general. The course also provides opportunities for students to explore various aspects of the profession related to their career goals and interests.

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

EDH 6948  Internship in Higher Education
3 sh (may be repeated for up to 6 sh of credit)

Consists of two components, one involving practical application and the second involving an approved independent study. Interns will work on one or more projects or activities in an appropriate students affairs or student support services unit. Practical experience must include specified learning outcomes and appropriate documentation of work and learning. The practical experience component will provide the opportunity to observe how a student affairs or student services unit operates and to learn about critical issues, essential knowledge, and applicable skills required to be successful in the field. The independent study portion of the internship will allow development of an area of special interest and expertise. Permission is required.

EDH 7205  Curriculum Development in Higher Education
3 sh (may not be repeated for credit)

Emphasis on curriculum perspectives, procedures, and practices in higher education; principles of curriculum and instruction in higher education; theory and practices in goal setting, curriculum planning, instructional improvement, and curriculum design.

EDH 7632  Leadership in Higher Education
3 sh (may not be repeated for credit)

Designed for current and prospective leaders who seek to learn more about leadership in higher education in this new global area, students will study several theoretical perspectives that have gained some credibility and research basis over the last several decades. In addition, students will read about or hear first person accounts of leaders? experiences in administrative roles. Participants will be asked to relate course material to their own current experience and personal goals. The ultimate goal of the course will be to create a personal knowledge base from which to create a plan for developing or refining one?8s own leadership perspectives. In effect, the theme for the course will be: How can someone utilize current theory and literature and the experiences of practicing leaders to become a more effect leader?.

EDH 7633  Governing Colleges and Universities
3 sh (may not be repeated for credit)
Prerequisite: EDH 6051

Students will examine and compare existing state and local college and university governance structures. Demographic, social, legal, financial and planning issues and forces that effect how colleges and universities are governed will also be explored. Academic and Administrative Unit Governance within institution of higher Education will be highlighted. Policy analysis and research will be explored as it relates to governance in higher education. Prerequisites: EDH 6051.

EDH 7635  Organization and Administration of Higher Education
3 sh (may not be repeated for credit)

Provides opportunities for students to explore and generate greater understanding of the organization and administration in higher education by examining the concepts and behaviors of those organizations and administrators.

EDH 7636  Organizational Theory and Practices in Higher Education
3 sh (may not be repeated for credit)

Explores theories and models of organizations and their applicability to colleges and universities and the work done in them. Pays particular attention to aspects of decision-making, leadership and organizational change and to the influence of internal and external actors. Also examines many of the administrative practices and processes common in colleges and universities today.

**EDM-Education: Middle Courses**

EDM 3230  Mid Sch Org & Curr
3 sh (may not be repeated for credit)

EDM 3320  Integrated Methods I
3 sh (may not be repeated for credit)

Teacher's role in delivering content specific curricula within the middle school will be the focus. Students will develop ability to construct lesson plans of various types that integrate specialized content across the middle level curriculum. Basic lesson plans for direct instruction, guided discovery, problem-centered learning, and class and individual projects will be developed. Planning for implementation of cooperative learning, alternative assessment, and verbal techniques that encourage student thinking will be addressed. Students will become familiar with content specific manipulatives, other instruction tools, and ways to organize and communicate information in written and oral modes. Development of the emerging professional at the tech level will be emphasized.

EDM 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
EDM 4905   Directed Study
1-12 sh (may be repeated indefinitely for credit)

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

**EDP-Educational Psychology Courses**

**EDS-Education: Supervision Courses**

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

EDS 6105   Human Relations and Communication in Education
3 sh (may not be repeated for credit)

Theoretical and experiential framework for maximizing human relations and communication within the educational domain including principles of persuasion, public information management, effective communication strategies and personal effectiveness with staff and the public.

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

**EEC-Education: Early Childhood Courses**

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

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

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

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

**EEE-Electrical Electron Eng Courses**

EEE 3308   Electronic Circuits I
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308L* AND EEL 3111 AND EGN 3204

Fundamentals of analog electronic circuits and systems. A grade of “C” or better is required in the prerequisites. Credit may not be received in both EEE 3308 and EEL 3304.

EEE 3308L   Electronics Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308* AND EEL 3111L

Electronic instrumentation devices and systems. Material and supply fee will be assessed. A grade of "C" or better is required in the prerequisites. Credit may not be received in both EEE 4308L and EEL 4304L.

EEE 3396   Solid-State Electronic Devices
3 sh (may not be repeated for credit)
Prerequisite: (EEE 3111) AND (CHM 2045 OR CHM 1045 OR CHM 1045C)

Introduction to the principles of semiconductor electron device operation. A grade of "C" or better is required in the prerequisite.

EEE 4306   Electronic Circuits II
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308L AND EEE 4306L* AND EEL 3112

Design-oriented continuation of EEL 3304C; feedback on am circuits and applications, digital electronics. A grade of "C" or better is required in the prerequisites.

EEE 4306L   Electronic Circuits II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308/L AND EEE 4306* AND EEL 3112

Electronic Circuits II laboratory. A grade of "C" or better is required in the prerequisites. Material and supply fee will be assessed. Credit may not be received in both EEE 4306L and EEL 4306L.

EEE 4310   VLSI Circuit Design
3 sh (may not be repeated for credit)
Prerequisite: ((EEE 3308 AND EEL 3701)) AND (CHM 2045 OR CHM 1045 OR CHM 1045C)

Analysis and design of digital circuits using MOS and bipolar devices.

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

**EEL-Engineering: Electrical Courses**

EEL 2948   Service Learning Field Study I
1-3 sh (may be repeated for up to 4 sh of credit)
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty “customize” courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student’s faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

EEL 3111   Circuits I
3 sh (may not be repeated for credit)
Prerequisite: (PHY 2049 OR PHY 2049C) AND (EGN 3204* OR EGM 3344*) AND ((EEL 3111L* AND MAC 2313))

Basic Analysis of DC and AC electric circuits.

EEL 3111L   Electrical Circuits Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 3111*

Introductory electrical engineering laboratory in electrical instrumentation, devices, and systems. Material and supply fee will be assessed. Credit may not be received in both EEL 3117L and EEL 3303L.

EEL 3112   Circuits II
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111 AND EGM 4313* AND MAP 2302

Continuation of EEL 3111 with emphasis on circuit applications of convolution, the Fourier series, and the Laplace and Fourier transforms. A grade of "C" or better is required in the prerequisites.

EEL 3135   Discrete-Time Signals and Systems
3 sh (may not be repeated for credit)
Prerequisite: (EEL 3112*) AND (EEL 4834 OR COP 3014 OR EGN 3203)

Difference equations, discrete convolutions, the z transform, discrete and fast Fourier transforms, digital processing of analog signals, sampling theorem, probability and random signals.
EEL 3211 Basic Electric Energy Engineering
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111 AND EEL 3211L*
Introduction to the fundamentals of energy conversion; Power transformers, DC machines, Poly-phase induction machines, synchronous machines, single phase motors and permanent magnet machines, Speed control of DC motors, Speed control of ac motors. A C is required in the prerequisites to this course.

EEL 3211L Electric Energy Engineering Laboratory
1 sh (may not be repeated for credit)
Co-requisite: EEL 3211
Hands on experience with fundamental devices of electric power systems such as transformers, electrical machines, power passive components, and power electronic converters as well as all measuring and recording instruments. Lab corresponds with EEL 3211.

EEL 3472 Electromagnetic Fields and Applications I
3 sh (may not be repeated for credit)
Prerequisite: (PHY 2049 OR PHY 2049C) AND (MAC 2312)
Electric and magnetic fields and forces, Maxwell's equations in point and integral form, plane wave propagation, energy and power.

EEL 3473 Electromagnetic Fields and Applications II
3 sh (may not be repeated for credit)
Prerequisite: EEL 3472
Maxwell's equations, electromagnetic wave propagation in different media, antennas, waveguides, numerical methods, electromagnetic coupling. A grade of "C" or better is required in the prerequisite(s).

EEL 3701 Digital Logic and Computer Systems
3 sh (may not be repeated for credit)
Prerequisite: (MAC 2311* OR MAC 1114 OR MAC 2312) AND (EEL 3701L*)
Co-requisite: EEL 3701L
An overview of logic design, algorithms, computer organization, sequential circuit design, and computer engineering technology.

EEL 3701L Digital Logic and Computer Systems Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 3701*
Practical applications of digital logic. Material and supply fee will be assessed.

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

EEL 4213 Electric Energy Systems 1
3 sh (may not be repeated for credit)
Prerequisite: EEL 3211
System models for generators, transformers, transmission lines and large-scale power networks. Matrix formulations, power flow and analysis, symmetrical component theory, balanced and unbalanced fault analysis. A grade of "C" or better is required in the prerequisite(s).

EEL 4242 Power Electronic Circuits
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308
Circuit topologies, analysis, design, and simulation of electronic circuits such as power supplies and motor drives. A grade of "C" or better is required in the prerequisite(s).

EEL 4267 Cyber Security of Industrial Control System
3 sh (may not be repeated for credit)
This course is used to teach and share in-depth defense strategies and up-to-date information on cyber threats and mitigations for vulnerabilities with the goal of improving cyber security preparedness in the industrial control systems community. This course provides an overview of operations security for industrial control systems and prepares the students for the risks and threats associated with electric grids and other centralized and distributed control systems. Offered concurrently with EEL 5277; graduate students will have additional work.

EEL 4283 Introduction to Renewable Energy
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045 AND ENC 1102 AND PHY 2049
The main objective of this course is to study the different types of energy sources and storages, renewable energy systems, energy distribution, energy policy and management. Computer-aided analysis of renewable energy resource information and data for evaluating energy potential and energy costs.

EEL 4287 Future Energy Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111
Study and analyze renewable energy sources and their integration into the grid, microgrid, smart grid power management, plug in electric vehicles, modern energy storage technologies, energy efficient buildings, cyber security and other new technologies that are revolutionizing the power industry.

EEL 4290 Sustainable Power Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 4287
Key technical and economic characteristics of power systems and their interaction in the design and operation of markets that foster environmental, economic, and security stability in today's complex power systems.

EEL 4514 Communication Systems and Components
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112 AND EEL 3135 AND EEL 4514L* AND EGM 4313
Theory of communication, and applications to radio, television, telephone, satellite, cellular telephone, spread spectrum, and computer communication systems. A grade of "C" or better is required in the prerequisite(s).

EEL 4514L Communication Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEE 3308L AND EEL 4514*
Experiments with communication circuits and radio frequency instruments, devices, and measurements. Material and Supply Fee will be assessed.

EEL 4657 Linear Control Systems
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111 AND EEL 4657L* AND MAP 2302
Theory and design of linear control systems.

EEL 4657L Linear Controls Laboratory
1 sh (may not be repeated for credit)
Prerequisite: EEL 4657*
Practical applications of linear control theory.
EEL 4663   Elements of Robotics
3 sh (may not be repeated for credit)
Prerequisite: (MAP 2302) AND (EGM 4313 OR EGM 3344)
An introductory course in the multidisciplinary field of robotics with
analysis and design of robots and robotic tasks. Includes class projects
in robot programming and design. A grade of "C" or better is required
in the prerequisite(s). Material and supply fee will be assessed.

EEL 4712   Digital Design
3 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701)
Co-requisite: EEL 4712L
Advanced modular logic design, design languages, finite state
machines, and binary logic. A grade of "C" or better is required in all
prerequisites.

EEL 4712L   Digital Design Laboratory
1 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701*)
Co-requisite: EEL 4712
Design and applications of advanced digital logic using VHDL.

EEL 4713   Digital Computer Architecture
3 sh (may not be repeated for credit)
Prerequisite: EEL 4712
The use of electronic digital modules to design computers.
Organization and operation of computers. Hardware/software trade-
offs. Design of computer interfacing.

EEL 4744   Microprocessor Applications
3 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701)
Elements of microprocessor-based systems; hardware interfacing
and software design for their application. A grade of "C" or better is
required in the prerequisite(s).

EEL 4744L   Microprocessor Applications Laboratory
1 sh (may not be repeated for credit)
Prerequisite: (EEL 4834* OR COP 3014) AND (EEL 3701L)
Co-requisite: EEL 4744
Practical applications of microprocessor-based systems, software
and hardware interface. A grade of "C" or better is required in the
prerequisites. Material and supply fee will be assessed.

EEL 4759   Digital Image Processing
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112 AND EGN 3203
An introduction to digital images and digital image processing
techniques, including frequency and spatial image enhancement,
image restoration, wavelets and morphology.

EEL 4822   Pattern Recognition
3 sh (may not be repeated for credit)
Prerequisite: EEL 4834 AND EGN 3203
An introduction to pattern recognition and classification techniques,
including Bayesian classifiers, linear and non-linear classifiers,
clustering, perceptrons, and feature generation/selection.

EEL 4834   Programming for Engineers
3 sh (may not be repeated for credit)
Prerequisite: MAC 1114 OR MAC 2311* OR MAC 2312
Develop computer skills and art of writing good computer programs
using a high level programming language like C. Examples and
exercises relevant to Electrical Engineering are used.

EEL 4905   Individual Problems in Electrical Engineering
1-12 sh (may be repeated indefinitely for credit)
May be repeated with a change of content up to a maximum of 4
credits. Selected problems or projects in the student's major field of
engineering study. Permission is required.

EEL 4930   Special Topics in Electrical Engineering
1-4 sh (may be repeated for up to 6 sh of credit)
May be repeated with change of content up to a maximum of 6 credits.
Special courses covering selected topics in electrical engineering.
Permission is required. A grade of "C" or better is required in the
prerequisite(s). (Contact the department for prerequisites).

EEL 4940   Engineering Internship
1 sh (may be repeated for up to 3 sh of credit)
Prerequisite: EEL 3111 OR EEL 3701 OR EEL 4834
Practical and significant electrical and/or computer engineering based
work experience under approved industrial supervision. Graded on a
satisfactory / unsatisfactory basis only. Permission from department
co-op advisor is required.

EEL 4949   Co-Op Work Experience
1 sh (may be repeated for up to 4 sh of credit)
Practical co-op work under approved industrial supervision. Grading is
on satisfactory / unsatisfactory basis only. Permission is required.

EEL 5277   Cyber Security of Industrial Control System
3 sh (may not be repeated for credit)
This course is used to teach and share in-depth defense strategies
and up-to-date information on cyber threats and mitigations for
vulnerabilities with the goal of improving cyber security preparedness
in the industrial control systems community. This course provides
an overview of operations security for industrial control systems and
prepares the students for the risks and threats associated with electric
grids and other centralized and distributed control systems. This
course introduces students to new developments in cyber threats,
breaches and incidents in electrical grid and other industrial control
systems. The course also discusses issues and methods to improve
industrial security on the automation platform. Offered concurrently
with EEL 4276; graduate students will have additional work.

*  This course may be taken prior to or during the same term.
EET-Electronic Engin Tech Courses

EEX-Educ:Excep Child-Core Comp Courses

EEX 3070   Methods in Inclusion and Collaboration
3 sh (may not be repeated for credit)
This course is required for all education majors. The course provides
students with background knowledge related to Special Education
issues including laws and regulations, terminology, disability
categories, and common school practices. Students are also
challenged to learn the skills necessary to work collaboratively within
an educational environment to include students with disabilities, while
meeting their individual educational, behavioral, and social needs.
Evidence-based instructional and classroom management strategies
will also be presented.

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

EEX 4141   Survey of Normal and Abnormal Language and Speech
Development
3 sh (may not be repeated for credit)
This course is designed to help teachers (ESE and general education)
better understand the nature of speech and language development
and common problems that students may experience during their
developing years. Characteristics of common speech & language
problems and interventions for classroom teachers are highlighted.

EEX 4254   Instructional Strategies for Teaching Students with
Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 3070
Through lecture, discussion, and projects, this course provides an
introduction to a comprehensive knowledge base pertinent to the
nature and needs of students with exceptional needs. Course content
focuses on current legislation, professional practices, trends, and
research, and students will learn about and explore current evidence-
based practices that support student success. Additional emphasis
is placed on identifying specific instructional strategies developed for
students who struggle in subject-specific content areas.

EEX 4255   Curriculum for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 3070 AND EEX 4254 AND RED 3310
This course prepares pre-service teachers to effectively utilize
specialized curriculum and research-supported practices for teaching
students with high incidence disabilities (learning disabilities,
emotional/behavioral disorders, and intellectual disabilities) in
inclusive, general education environments; to analyze and evaluate
curriculum standards and resources; and to interpret assessment
results to generate data-based decisions for individualized,
instructional programs.

EEX 4474   Curricula for Teaching Students with Severe Disabilities
3 sh (may not be repeated for credit)
Prerequisite: EEX 3070
This course provides an introduction to curricula pertaining to
students with severe disabilities including intellectual disabilities,
physical impairments, and autism. Emphasis is placed on person-
centered planning, team approaches, access to the general education
curriculum, integrating life skills and academic skills instruction,
activity-based instruction, and community-based instruction. Course
content includes curriculum and instructional strategies related to
communication, motor and self-care skills.

EEX 4772   Personal, Social and Employment Skills for Exceptional
Students
3 sh (may not be repeated for credit)
A primary goal of this course is building capacity with regard to
identifying holistic needs, as well as strategies to promote and
maximize independence, to identify career goals that are consistent
with the career aptitudes and interests of children and youth. Related
components of this focus include: self-awareness, self-determination,
transition planning for independent living, selective placement and
social skill development. Emphasis throughout is placed on identifying
access points to available community, state and federal resources.
A required field experience requires students to develop a Transition
Plan for an at-risk youth or adult that is an application of the essential
course content.

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

EEX 5283   Employment, Social, and Personal Skill Building for
Exceptional Students
3 sh (may not be repeated for credit)
Includes an intensive examination of programs and services and
development of well researched strategies for teaching personal,
social, employment, and transition skills for students into advanced
vocational prep., the workplace and independent living. Provides
graduate level field-based classroom experiences in applying career
development strategies, job coaching, transition planning, and
research related to employment, social, and personal skill development
of student with disabilities.

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

EEX 6035   Best Practices in Teaching Challenging Students
3 sh (may not be repeated for credit)
A comprehensive overview of the exceptional student to include the
knowledge, skills, and dispositions needed to be an effective teacher
in the ESE classroom or inclusive education environment. Covers
a broad range of topics to prepare the professional for the Florida
Teacher Certification Examination for K-12 ESE. Discusses best
practices as reflected in the professional literature related to effective
program development and delivery for students who are at-risk or
identified as needing special educational services.

EEX 6051   Exceptionalities
3 sh (may not be repeated for credit)
This course provides an introduction to special education including
legislation, professional practices, trends, and research. Students will
learn about characteristics and educational needs of individuals with
disabilities and explore evidence-based practices that support student
success.
EEX 6225  Assessment of Exceptional Children
3 sh (may not be repeated for credit)
This assessment course is designed for graduate students in Teacher Education and focuses on an analysis of the professional literature to determine best practices in assessment. Topics include (1) measurement issues to determine assessment quality; (2) an examination of effective assessment practices with children who are exceptional; (3) issues involving the interpretation of test scores; (4) best practices in assessment; and (5) best practices in linking assessment to instruction. Credit may not be awarded for both EEX 6225 and EEX 6227.

EEX 6612  Behavior Management
3 sh (may not be repeated for credit)
Provides a comprehensive knowledge base concerning behavior management including structuring the classroom for success, assessing and managing individuals and group behavior, and motivating and managing exceptional and at-risk students.

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

EEX 7060  Seminar: Best Practices in Alternative and Special Education
3 sh (may be repeated for up to 6 sh of credit)
Students will develop a knowledge base of instructional issues including program alternatives, development of curriculum, developing instructional interventions, and microcomputers and instruction. Students will focus on best practices related to behavioral management, learning strategy instruction, and career education for those students who are not successfully adjusting to the normal school setting.

EEX 7215  Ecological Assessment and Intervention in Alternative and Special Education
3 sh (may not be repeated for credit)
Students will develop a knowledge base of the theoretical principles underlying ecological assessment in alternative and special education settings. Students will be given opportunities to apply ecological assessment procedures in alternative and special education setting to refine their assessment skills and to use the assessment data to plan and implement behavioral and instructional interventions. Credit may not be earned in both EEX 7212 and EEX 7215.

EEX 7343  Contemporary Trends in Special Education
3 sh (may not be repeated for credit)
Examines current research related to current trends in special education. Of particular importance will be an analysis of historical antecedents related to these trends, an examination of associated data bases, and implications for future trends.

EEX 7344  Current Research Applications in Special Education
3 sh (may not be repeated for credit)
Examines current research findings concerning assessment, instructional planning, and evaluative procedures used with various age groups and disabilities. Past and current practices as well as those procedures that have been found to be most effective will be addressed.

EEX 7457  Changing Paradigms in Education
3 sh (may not be repeated for credit)
Develop a knowledge base of major issues confronting the education. Understand current practices and relate these to the future needs of students. Additionally, students will be encouraged to explore ways in which programs and services can be restructured to meet current and future needs.

EEX 7773  Transitional Planning for At-Risk Students
3 sh (may not be repeated for credit)
Students will develop a knowledge base of transitional issues including historical perspectives, legislative mandates for transitional planning, skills and needs of at-risk students, models of transition programs, barriers and supports to transition, professional responsibilities, work and independent living supports, and current and future transitional needs. Students will focus on best practices related to vocational rehabilitation, vocational education, career education, and community education for those students who would not successfully adjust to adult living without these services.

EEX 7905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EGI-Education: Gifted Courses

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

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

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

EGM-Engineering: Science Courses

EGM 2500  Engineering Mechanics-Statics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 AND PHY 2048
Covers basic aspects of reduction of force systems, equilibrium of particles and rigid bodies, vector methods, and application to structures and mechanisms.

EGM 3344  Numerical Methods
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302*
Programming fundamentals, interpolation, curve fitting, optimization, computations with series, numerical integration, and the numerical solution of algebraic, transcendental, simultaneous and differential equations.

EGM 3401  Engineering Mechanics-Dynamics
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500 AND MAC 2311
Dynamics of particles and rigid bodies for rectilinear translation, curvilinear motion, rotation and plane motion. Principles of work and energy, impulse and momentum.

EGM 4313  Intermediate Engineering Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MAP 2302*
Engineering applications of linear algebra, vector differential, calculus (including the concepts of gradient, divergence, and curl), complex variables (and functions of complex variables), and fourier series and transforms. Engineering applications of statistics.
EGN-Engineering: General Courses

EGN 2911L  Sophomore Engineering Design I
1 sh (may not be repeated for credit)
Prerequisite: MAC 2311
First course in a sophomore engineering design sequence. Students work in teams with other engineering design students in an active, discovery based learning environment employing practice based learning.

EGN 2912L  Sophomore Engineering Design II
1 sh (may not be repeated for credit)
Prerequisite: EGN 2911L
Second course in a sophomore engineering design sequence. Students work in teams with other engineering design students in an active, discovery based learning environment employing practice based learning.

EGN 3204  Engineering Software Tools
1 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Gives students an introduction to important Engineering software tools such as MATLAB, Labview, MATHCAD, and FSPICE.

EGN 3365  Engineering Materials
3 sh (may not be repeated for credit)
Prerequisite: (MAC 2311) AND (CHM 1045 OR CHM 2045 OR CHM 1045C)
Fundamentals in structure, properties, and mechanical behavior of engineering materials.

EGN 3613  Principles of Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Provides students with a broad-based understanding of finance, cash flow, and economic decision making practices. Addresses the principles and techniques needed for making economic decisions about building systems and subsystems. Explores decision making techniques pertaining to cost and value engineering. Emphasis will be placed on the time-value of money and equivalence, replacement analysis, uncertainty and life cycle costing.

EGN 3913L  Junior Engineering Design I
1 sh (may not be repeated for credit)
Prerequisite: (EGN 2912L AND MAC 2313 AND PHY 2048) OR PHY 2048C
First course in a junior engineering design sequence. Students work in teams with other engineering design students in an active, discovery based learning environment employing practice based learning. This course may be a continuation of the project from the Sophomore Engineering Design, or may be a starting point for Juniors who are new to the program (Students without Sophomore Engineering Design must receive permission from their adviser).

EGN 3914L  Junior Engineering Design II
1 sh (may be repeated for up to 4 sh of credit)
Prerequisite: EGN 3913L
Continuation of a Junior engineering design sequence. Students work in teams with other engineering design students in an active, discovery based learning environment employing practice based learning. This course is repeatable for elective credit with permission of the instructor.

EGN 4950  Capstone Design I
1 sh (may not be repeated for credit)
Preliminary work on senior design project. This portion of the senior design will focus on the objectives and criteria, synthesis, and analysis elements of project development. After developing design concepts, researching for implementation methods, and performing a feasibility study (which will include economic, social, ethical, etc., factors), the semester will culminate with a senior design project proposal and presentation.

EGN 4952L  Capstone Design II
2 sh (may not be repeated for credit)
Prerequisite: EGN 4950
Continuation of Capstone Design I, with emphasis on construction, testing, and evaluation elements of project development. Material and Supply fee will be assessed. Permission is required.

EGS-Engineering: Support Courses

EGS 1006  Introduction to Engineering
1 sh (may not be repeated for credit)
Introduces the student to engineering topics and guides the student toward Electrical and Computer Engineering at UWF. Students get the opportunity to interact with current engineering students and practicing engineers from various engineering fields. The student also participates in a hands-on design component. The goal of the class is to help the student make an informed choice about career alternatives.

EGS 3441  Engineering Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Survey of the basic concepts in probability and statistics with engineering applications. Topics include probability, discrete and continuous random variables, estimation, hypothesis testing and linear and multiple regression.

EGS 4032  Professional Ethics
3 sh (may not be repeated for credit)
Prerequisite: ENC 1102
An interactive study of ethics, theory and the development of professionalism. Case studies of ethical conflicts in engineering practice. Covers engineering codes of ethics and requires students to resolve theoretical situations through application of ethical codes.

EIN-Industrial Engineering Courses

EIN 4354  Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Basic principles and applications of economic decision making between alternatives encountered in engineering systems projects. The analysis will include methodologies of economics and finance in addition to engineering fundamentals. Upper division classification in engineering is required.

EME-Edu: Technology Media Courses

EME 1660C  Engineering Technology Applications in Aviation
1-2 sh (may be repeated for up to 6 sh of credit)
Learners will apply engineering technology concepts to successfully plan and execute aviation-related mission scenarios in a high-fidelity fully immersive learning environment at the National Flight Academy in Pensacola, Florida.
EME 2040  Introduction to Educational Technology
3 sh (may not be repeated for credit)
Assists educators in developing skills and competencies which are essential to the integration of technology into the delivery of classroom instruction. Students will survey a wide variety of instructional technology materials and systems. They will also learn to use these tools in a classroom environment.

EME 3002  Intelligence and National Security
3 sh (may not be repeated for credit)
Students will develop an academic understanding of national security and the government agencies that are responsible for protecting the United States and its interests. Students will learn about the intelligence cycle, national security decision making, and the intelligence community and review case studies of intelligence in action. Students will also become familiar with analytic writing and intelligence analysis through case studies and weekly assignments of current national security news.

EME 3003  Open Source Intelligence
3 sh (may not be repeated for credit)
Provides students with an academic and practical understanding of Open Source Intelligence (OSINT) and its applications. Students will learn about Open Source Intelligence as a discipline, its place in the intelligence world, and OSINT planning and execution. Students will become familiar with OSINT acquisition and exploitation techniques by developing an understanding of available technological tools and capabilities.

EME 3312  Technology Supported Learning
3 sh (may not be repeated for credit)
Examines the use of current and emerging technologies to facilitate learning. Topics covered will include distance learning, formal and informal technology based learning and mobile learning. Strategies for integrating technology in educational settings will be explored.

EME 3351  Introduction to Instructional and Performance Technology
3 sh (may not be repeated for credit)
The distinct purposes of instructional technology and human performance technology are explored in depth in this course. The foundations and evolution of each discipline serve to establish distinct definitions that will be investigated. The similarities and differences will be compared to include the historical basis, models, major tasks, and desired outcomes.

EME 3402  Information Technology Infrastructure Analysis and Recommendation
3 sh (may not be repeated for credit)
Prerequisite: EME 4627
Students will develop the knowledge, skills and abilities necessary to analyze technology infrastructure needs of various types and sizes of organizations and provide appropriate solution recommendations to solve complex problems. Meets Gordon Rule Writing Requirement.

EME 3406  Web Presence Deployment Strategies
4 sh (may not be repeated for credit)
Prerequisite: EME 4627
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 3624  Training Needs Assessment
3 sh (may not be repeated for credit)
Examines the role of training needs assessment in instructional design. Students will be introduced to techniques used to collect and analyze data to identify and clarify training needs. Prepares students to employ needs assessment techniques to determine who needs to learn what and why prior to engaging in the design and development of instructional materials.

EME 3710  Engineering Technology Applications in CompTIA Security+
3 sh (may not be repeated for credit)
Security+ includes important foundational principles for securing a network and managing risk. Access control, identity management and cryptography are important components of the course. Mitigation and deterrent techniques are provided to prevent network attacks and expose potential vulnerabilities. Successful completion of the CompTIA Security+ exam meets the Information Assurance (I.A.) technical and management certification requirement? outlined by the U.S. Department of Defense. Non-degree seeking students will be required to pass an online pre-test with a minimum score of 80% prior to enrollment.

EME 3711  Engineering Technology Applications in CompTIA Network+
3 sh (may not be repeated for credit)
Network+ includes topics in network technologies, installation and configuration, media and topologies, management, and security. Certification in Network+ enhances several occupations including: network administrator, network technician, network installer, help desk technician and IT cable installer. Network+ is the technical prerequisite option? for IT technicians requesting to join the Apple Consultants Network. Successful completion of the certification exam is recognized by the U.S. Department of Defense. Non-degree seeking students will be required to pass an online pre-test with a score of 80% or better prior to enrollment.

EME 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
EME 4001  HUMINT Operations
3 sh (may not be repeated for credit)

Students will learn the importance of human originated information, or HUMINT, in the context of law enforcement, military and intelligence operations. Students will learn about interview, interrogation and elicitation techniques that are employed within the law enforcement and national security communities. Students will be able to recognize and describe the difference between overt and clandestine source operations and when HUMINT should and should not be utilized in the pursuit of legal or national security priorities. Students will also be able to assess basic psychological indicators in the profiling of historic espionage cases and their impact on national security.

EME 4043  Instructional Technology Leadership
3 sh (may not be repeated for credit)

Students will examine the role of the technology leader in effective integration, management and use of technology in a variety of settings, including education, training, military, public sector and non-profits. The course focuses on technology, information, and information literacy. Special attention is paid to the role of systems thinking in effective technology leadership. Offered concurrently with EME 5316, graduate students will have additional work.

EME 4083  Program Evaluation in Instructional Design and Technology
3 sh (may not be repeated for credit)

Students will develop skills used in selecting the appropriate model for conducting various types of evaluations. A series of models will be reviewed and aligned with evaluation purposes and questions. Applying the appropriate evaluation model is critical to ensuring that interventions, programs, and projects are successful. Development of a comprehensive evaluation plan will provide students with the opportunity to align an evaluation model with data collection strategies and techniques for a specific evaluation purpose.

EME 4313  Wireless and Mobile Communications
3 sh (may not be repeated for credit)

Introduces common wireless technologies and wireless network architectures including common carrier cellular networks. Learners will examine characteristics of these technologies and identify their roles in enterprise-class information technology operations. Learners will identify common tools and applications associated with these technologies and explain their roles in design, deployment, and management of them. Wireless technologies strengths and weaknesses are described in the context of their effect on enterprise security, performance and cost management.

EME 4343  Multimedia Design and Development
3 sh (may not be repeated for credit)
Prerequisite: EME 3312

The basic visual and typographical elements and technical aspects of multimedia design and development to support learning are the focus of this course. Students will apply instructional design strategies and principles of multimedia learning to the design and development of multimedia. Included are a selection of software applications and services, design principles, hands-on production, and discussion of issues and useful resources.

EME 4350  Human Performance Technology
3 sh (may not be repeated for credit)
Prerequisite: EME 3351

Introduce students to the field of Human Performance Technology (HPT). Students will be introduced to research, theories and models associated with HPT, preparing them to conduct comprehensive performance, gap and cause analyses in organizations to identify and provide both training and non-training based solutions to address organizational performance concerns.

EME 4352  HPT Intervention Selection and Design
3 sh (may not be repeated for credit)
Prerequisite: EME 4350

Human Performance Technology (HPT) interventions are selected to resolve gaps in desired performance. The skills required to align interventions with the cause(s) of the problem are the focus of this course. Students will classify interventions using various models of Human Performance Technology and select potential interventions to resolve identified problems in human performance scenarios. Students will also develop a formal proposal to communicate recommendations to stakeholders.

EME 4474  Technical Intelligence Collection
3 sh (may not be repeated for credit)

Introduces students to intelligence disciplines (ELINT, SIGINT, MASINT, GEOINT) and intelligence organizations (NSA, NGA, NRO and DIA). Students will examine the history of these organizations, technologies used in each intelligence discipline, and common uses of each technology. The course focuses on improving analytical writing and research skills in the intelligence discipline.

EME 4622  Technology Systems Operations: Management Strategies
4 sh (may not be repeated for credit)
Prerequisite: EME 4627

Students will develop skills and abilities to effectively manage a networked system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include in-depth examination and appropriate applications in each functional area. Hardware and software tools that are required to perform network management tasks will be examined.

EME 4627  Technology Systems Operations: Architectures and Components
4 sh (may not be repeated for credit)

Students learn advanced principles associated with designing, developing and operating technology systems for large organizations spanning one or more sites.

EME 4673  Foundations of Instructional Design
3 sh (may not be repeated for credit)
Prerequisite: EME 3351

Introduces students to the field of instructional design, a systemic and systematic, research-based means of designing effective, efficient, learner focused instruction. Students will use the ADDIE process to design a lesson.
EME 4674  Development of Instructional Materials
3 sh (may not be repeated for credit)
Co-requisite: EME 4673
The pedagogical, technical, and logistical aspects of instructional messages will provide the foundation for students to learn the fundamentals of instructional development in this course. Message design principles and individual preferences are considered as they relate to the development of instructional materials. Media and technology aspects relating to effective message delivery will be addressed and related to the logistical constraints of time and cost.

EME 4684  Instructional Design and Technology Capstone
3 sh (may not be repeated for credit)
The capstone is designed to enable students to demonstrate mastery of the Instructional Design and Technology knowledge, skills, and abilities developed during the academic program. Students will identify, propose, and complete a capstone project and develop an electronic portfolio highlighting their attainment of the program level learning outcomes.

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

EME 4944  Internship/Practica
3 sh (may not be repeated for credit)
Observation of and participation in technology systems related roles in professional settings. Students participate in field-based experiences related to their course of study and future goals. Prerequisite: Permission of instructor.

EME 5316  Instructional Technology Leadership
3 sh (may not be repeated for credit)
Students will examine the role of the technology leader in effective integration, management and use of technology in a variety of settings, including education, training, military, public sector and non-profits.

The course focuses on technology, information, and information literacy. Special attention is paid to the role of systems thinking in effective technology leadership. Offered concurrently with EME 4043, graduate students will have additional work.

EME 5403  Education and Training Technology Support Systems
4 sh (may not be repeated for credit)
Students learn advanced principles associated with designing and developing multi-site and enterprise-based support systems for education and training technologies and organizations that focus on developing effective learning environments and communities. Offered concurrently with EME 4627; graduate students will be assigned additional work.

EME 5457  Distance Education Technologies
3 sh (may not be repeated for credit)
Distance education will be investigated as an instructional method in terms of delivery, development, and implementation. Students will design a distance education environment that uses emerging technologies that support distance delivery. Offered concurrently with EME 4454; graduate students will be assigned additional work.

EME 5625  Technology Tools: Site-Based Educational Networks
4 sh (may not be repeated for credit)
Students learn the basic principles associated with designing and developing site-based networks that support education and training organizations. Major topics to be examined include: terminology, troubleshooting techniques and strategies, the future of educational networks. Offered concurrently with EME 4622; graduate students will be assigned additional work. Credit may not be received in both EME 5625 and EME 5315.

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

EME 6054  Foundations of Instructional Technology
3 sh (may not be repeated for credit)
Students investigate theoretical, historical, sociological, and philosophical perspectives and applications 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. Students are introduced to the theoretical and philosophical foundations of the field, and they are empowered to develop a comprehensive definition of the field and a broad perspective of IT on educational and training settings.

EME 6062  Applied Instructional Technology Investigations
3 sh (may not be repeated for credit)
This course provides an introduction to past, present, and future instructional technology research. Research paradigms and underlying theory appropriate for IT are emphasized. Quantitative, qualitative, and mixed methods research designs and appropriate data analysis techniques are explored.

EME 6317  Instructional Technology for Educational Leaders
3 sh (may not be repeated for credit)
This course provides future technology leaders with the basic terminology, historical perspectives, theoretical basis, research and practical application of instructional technology to enable them to be empowered persons and professionals who work in educational settings. This course builds 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 the 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 6408  Integrated Technology Learning Environments
3 sh (may not be repeated for credit)
The skills and abilities necessary in planning for the integration of technology into educational and training environments are the focus of this course. Students will develop a technology integration plan for a real-world scenario through the application of the major practices and models of technology integration.
EME 6409  Distance Learning Implementation
3 sh (may not be repeated for credit)
Integrates theory and best practices to explore and develop skills for developing and implementing effective education and training environments delivered via distance learning media. Students will focus on the principles and practices that are research-based and result in quality distance learning experiences, and students will explore technologies available to support and distribute distance learning and the considerations unique to distance learning. The course focuses heavily on online environments, and it emphasizes application of the best practices by enabling students to develop and implement their own instructional lessons that are delivered via distance learning technologies.

EME 6414C  Web-Based Instructional Tools for Educators
3 sh (may not be repeated for credit)
Students will gain the knowledge and skills necessary to design and develop web-based instruction using a variety of current technologies. Through integrating theory and application, students will learn to critically examine the instructional capabilities of various technologies and identify instructional strategies that support integration. Multiple units of instruction will be developed and designed that demonstrate the ability to align technology integration with the principles of learning theory and instructional design.

EME 6415  Digital Video for Instruction
3 sh (may not be repeated for credit)
Principles of instructional video design and development including designing for learning objectives, effective audio and lighting techniques, video recording, editing, and delivery will be taught. Students will explore the opportunities and technical challenges associated with web-based video as a communication medium. Practical application projects are an integral part of the learning experience as students explore all aspects of instructional video pre-production, production, and post-production.

EME 6426  HPT Interventions
3 sh (may not be repeated for credit)
Human Performance Technologists, the education and training leaders in organizations, identify gaps between desired and actual employee performance levels. Once the gaps have been identified, the HPT practitioner determines interventions or combinations of interventions that are needed to close those gaps. These interventions consist of instructional and non-instructional solutions that educators and trainers design and develop that, in turn, solve organizational performance problems.

EME 6427  Implementing HPT Interventions
3 sh (may not be repeated for credit)
Provides students with fundamental knowledge and skills related to the intervention implementation and change management activities associated with the practice of Human Performance Technology (HPT). Examines models of change management, the role of the change agent and the importance of developing and implementing effective change management plans to insure successful intervention implementation and institutionalization.

EME 6428  Evaluating HPT Interventions
3 sh (may not be repeated for credit)
Students will examine the theory and practice of evaluation models and processes as they relate to the formative, summative and confirmative evaluation of instructional and non-instructional HPT interventions. Students will develop the knowledge, skills and abilities necessary to plan and conduct comprehensive evaluations based on best practices.

EME 6429  Human Performance Improvement
3 sh (may not be repeated for credit)
Provides students with fundamental knowledge and skills related to the performance, gap and cause analysis activities associated with the practice of Human Performance Technology (HPT). Examines the importance of systems thinking in HPT and the theories and theorists of the field.

EME 6458  Distance Learning Policy and Planning
3 sh (may not be repeated for credit)
Examines the history of distance learning and the principles, policies and issues related to the design, development, implementation and administration of distance learning courses and programs in various settings. Issues related to technology, teaching, learning, assessment and faculty and student preparation will be considered from both theoretical and practical perspectives.

EME 6607  Implementation of Instructional Technology Projects
3 sh (may not be repeated for credit)
Provides students with the knowledge, skills, abilities, and attitudes necessary to provide leadership in the implementation of instructional technology. Students will learn to identify the constraints and risks associated with instructional technology planning and implementation and develop ways to manage these factors. Students will utilize software tools to manage the implementation of an instructional technology project.

EME 6626  Emerging and Innovative Technology Systems
3 sh (may not be repeated for credit)
New technology and approaches to teaching and learning evolve and revolutionize how professionals approach technology integration. Explore how innovation and new technologies can be used in instructional strategies to promote performance and learning.

EME 6678  Theoretical Foundations of Instructional Design
3 sh (may not be repeated for credit)
Students will examine the key components of the instructional system and the theoretical perspectives that inform the practice of instructional design. The role of communication theories, learning theories, and instructional theories, and the overarching concept of alignment in instructional design will be explored.

EME 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
EME 6946  Instructional Design and Technology Capstone
3-6 sh (may be repeated for up to 6 sh of credit)
Students critique the academic program, identifying their key learning outcomes, and the courses and specific instructional strategies that led to those outcomes. Students identify, propose, and complete a complex project, integrating knowledge, skills, and abilities developed in multiple classes to solve an instructional or performance related problem in a real organization. Permission is required.
EME 7015  Analysis in Human Performance Technology
3 sh (may not be repeated for credit)
Students investigate the role of analysis in Human Performance Technology and examine theories, models, and philosophical perspectives related to the performance, gap, and cause analysis processes that guide the practice of HPT. Students will integrate theory and practice to design theoretically sound analysis plans to identify root causes of organizational performance issues in various settings.

EME 7063  Research on Emerging and Innovative Technology Systems
3 sh (may not be repeated for credit)
Education specialist students conclude their program with this capstone course in which they apply knowledge and skills gained throughout the program to a scholarly activity in an educational environment. Students integrate a synthesis of theories, concepts, and themes learned in previous coursework. Capstone activities may include a research study, field experience, or special project.

EME 7067  Emerging Technologies-Analysis and Implementation
3 sh (may not be repeated for credit)
Students will investigate various emerging technologies and explore how those technologies can be integrated into instructional settings. Explorations will include the technologies available, which technology is most appropriate for given instructional situations, how to effectively use the technology to support instruction, and the impact of the technology on instruction.

EME 7068  Technology-Based Learning Theory and Research
3 sh (may not be repeated for credit)
Students develop a comprehensive picture of the research and theory related to the field of technology-based learning. Theoretical, historical, empirical, and philosophical perspectives are investigated as students delve into the various aspects of technology-based learning and related research. Students learn to critically analyze how theory and research influence practice.

EME 7075  Distance Learning Design and Development Leadership
3 sh (may not be repeated for credit)
Students will critically examine a wide range of potential performance improvement interventions to determine which solutions are best suited for various situations. Students will focus on aligning solutions with identified problems and organizational constraints and effectively communicating recommendations to stakeholders. Students will apply research, theory, and best practices to lead intervention design and development projects.

EME 7365  Human Performance Technology Theory and Research
3 sh (may not be repeated for credit)
Students will examine the theoretical and conceptual foundations of the field of Human Performance Technology through a comprehensive review and critical examination of the literature of the field. Students will develop knowledge, skills, and abilities necessary to apply research and theory to practice to improve organizational performance.

EME 7353  Leading Intervention Implementation and Evaluation
3 sh (may not be repeated for credit)
Students examine strategies for leading the implementation and evaluation of Human Performance Technology interventions. Students will analyze change management and evaluation models and develop the skills necessary to select and implement appropriate approaches to facilitate intervention implementation and evaluation efforts aligned with the planned change, the available resources, and the constraints of the organization.

EME 7357  Intervention Selection, Design and Development Leadership
3 sh (may not be repeated for credit)
Students will critically examine a wide range of potential performance improvement interventions to determine which solutions are best suited for various situations. Students will focus on aligning solutions with identified problems and organizational constraints and effectively communicating recommendations to stakeholders. Students will apply research, theory, and best practices to lead intervention design and development projects.

EME 7609  Principles of Instructional Systems Design
3 sh (may not be repeated for credit)
Students will critically examine a wide range of potential performance improvement interventions to determine which solutions are best suited for various situations. Students will focus on aligning solutions with identified problems and organizational constraints and effectively communicating recommendations to stakeholders. Students will apply research, theory, and best practices to lead intervention design and development projects.

EME 7705  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 7905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 7938  IT Research Design Seminar
3 sh (may not be repeated for credit)
Provides Instructional Technology advanced graduate students with the opportunity to conduct an in-depth examination of the processes and procedures in applied IT research, specifically as related to the dissertation process. Students explore how to determine appropriate topics for IT research, form and style for research publications, strategies for conducting literature reviews, hypotheses, a research design, and appropriate statistical application.
EME 8608  IDT Foundations, Issues and Trends
3 sh (may not be repeated for credit)
Examines the history and evolution of the field of instructional design and technology and its relationship to the related fields of educational technology and human performance technology. Examines current issues and trends influencing the field. Focuses heavily on research, critical thinking and communication skills.

EME 8905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 8980  Dissertation
1-6 sh (may be repeated for up to 18 sh of credit)

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Instructional Technology program. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory / unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission is required.

EML-Engineering: Mechanical Courses

EML 3011  Mechanics of Materials
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500 AND EGN 3365* AND EML 3022 AND EML 3172L*
Strength and elastic deflection of engineering materials due to loads applied axially, in torsion, in bending, and in shear. Combined stresses and principal stresses. Applications to design of beams and shafts. Computer simulation of stress under loading.

EML 3015  Thermal Fluid Systems I
3 sh (may not be repeated for credit)
Prerequisite: (PHY 2048 OR PHY 2048C) AND (MAC 2312)
Introduction to thermodynamics including the first and second laws of thermodynamics as well as power and refrigeration cycles. Fundamentals of heat transfer including an introduction to conduction, convection, and radiation.

EML 3016  Thermal Fluid Systems II
3 sh (may not be repeated for credit)
Prerequisite: EML 3015 AND EML 3016L* AND MAP 2302
Further study of thermal fluid systems including an introduction to fluid mechanics. Fluid statics, Bernoulli and energy equations, open and closed flow, drag and lift. Heat transfer via convection and radiation.

EML 3016L  Thermal Fluid Systems II lab
1 sh (may not be repeated for credit)
Prerequisite: EML 3016*
Laboratory experiments related to thermodynamics, fluid mechanics, and heat transfer. Thermal systems measurement devices, performance characteristics and design of engineering experiments.

EML 3022  Computer Aided Design and Modeling
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Introduction to industry standards for graphical representation of objects and simulation of processes utilizing 2D presentations and 3D modeling.

EME 8905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

EML 4804L  Mechatronic Systems lab
1 sh (may not be repeated for credit)
Prerequisite: EML 3011*
Laboratory experiments in materials science, material processing, material stress, strain and bending.

EML 3011  Mechanics of Materials lab
1 sh (may not be repeated for credit)
Prerequisite: EML 3011*
Laboratory experiments in materials science, material processing, material stress, strain and bending.

EML 3500  Machine Design
3 sh (may not be repeated for credit)
Prerequisite: EML 3011 AND EML 3172L
Design of machine elements including fasteners, bearings, gears and other power transmission components.

EML 4225  Dynamic Systems
3 sh (may not be repeated for credit)
Prerequisite: EGM 3401 AND MAP 2302
Introduction to modeling and control of dynamic physical systems, vibration analysis, and design of control systems.

EML 4321  Manufacturing Processes
3 sh (may not be repeated for credit)
Prerequisite: EML 3011
An integrated treatment of the analysis of traditional and non-traditional manufacturing processes.

EML 4600  Indoor Environmental Control
3 sh (may not be repeated for credit)
Prerequisite: EML 3016
Gives student a thorough understanding of the fundamental theory of air conditioning design for commercial buildings, including calculating heating and cooling loads along with the proper selection and sizing of air conditioning equipment.

EML 4804  Mechatronic Systems
3 sh (may not be repeated for credit)
Prerequisite: (EML 3011 AND EGM 2500 AND EML 4804L* AND MAP 2302)) AND (EEL 4834 OR EGM 3344 OR COP 3014)
This course introduces and demonstrates the synergistic combination of mechanical engineering, electrical and electronics engineering, control engineering, and programming to solve engineering problems and build intelligent systems.

EML 4804L  Mechatronic Systems lab
1 sh (may not be repeated for credit)
Prerequisite: EML 4804*
This is an introduction to Mechatronics by lab experience for interfacing of mechanical and electrical systems. It provides instruction and practical exercises in C programming, microcontroller programming, interfacing with sensors and actuators, data acquisition, communication, and closed-loop control.

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

EML 4930  Special Topics in Mechanical Engineering
1-4 sh (may be repeated for up to 6 sh of credit)
Special courses covering selected topics in mechanical engineering.

* This course may be taken prior to or during the same term.
ENC-English Composition Courses

ENC 1101  English Composition I
3 sh (may not be repeated for credit)
Guided practice in critical thinking and the writing process for various rhetorical situations. Documented paper is included. Requires additional work in the Writing Lab. Introduction to academic writing and research at the college level. Course focuses on rhetorical practice, the writing process, language, style, argument, source analysis, critical thinking, and documentation. Students will learn to organize and present ideas and information effectively in argumentative essays supported by research. Meets General Education requirement in Communication. Meets Gordon Rule Writing Requirement.

ENC 1102  English Composition II
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101
Introduction to public writing with an emphasis on rhetorical and genre analysis. Course provides instruction on writing to audiences in situations and contexts beyond the academic essay. Students will learn to organize and present ideas in a range of digital and print genres and multiple modes of communication. Meets General Education requirement in Communication. Meets Gordon Rule Writing Requirement.

ENC 1146  Writing Studio
1 sh (may be repeated for up to 2 sh of credit)
Writing Studio is a one-hour elective that students may take to workshop writing projects assigned in classes across campus. Students receive one-on-one feedback on their writing in a small-group, workshop context. Class size is typically limited to 8-10 students. Writing Studio provides an intensive investigation into the skills and objectives that make critical writing effective. In a collaborative environment, students interpret assignments, generate and research ideas, invent topics, and write, evaluate, revise, and edit drafts.

ENC 3213  Professional and Technical Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102
Students will learn an overview of professional and technical writing principles, current communication issues, research practices, and emerging technologies. This course focuses on communications skills essential for success in technical and professional communication, including audience analysis, collaboration, and document design. Students will create documents such as letters, manuals, reports and proposals used in a variety of workplace environments. Students who have already passed ENC 3240 or ENC 3250 must receive instructor permission to enroll in this course. Meets Gordon Rule Writing Requirement.

ENC 3350  Advanced Writing Studio
1 sh (may not be repeated for credit)
Co-requisite: ENG 3010
Advanced Writing Studio is a one-hour course that students take concurrently with ENG 3010 Critical Methods for Literature Study. Studio students will discuss and edit writing projects assigned in ENG 3010. Students receive one-on-one feedback on their writing in a small-group, workshop context. Class size is typically limited to 10 students. Writing Studio provides an intensive investigation into the skills and objectives that make critical writing effective. In a collaborative environment, students interpret assignments, generate and research ideas, invent topics, and write, evaluate, revise, and edit drafts.

ENC 3416  Digital Writing
3 sh (may not be repeated for credit)
Students will compose and analyze digital texts that incorporate images, sounds, video, and language. Course focuses on the theory, analysis, and production of digital texts such as blogs, websites, audio podcasts, video, and visual arguments. Across the semester, students will study audience analysis, and as a final culmination of their work, students will design and deliver an e-Portfolio project. Meets Gordon Rule Writing Requirement.

ENC 3455  Writing for Science, Technology, Engineering and Math Majors
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102
This class focuses on the writing style and research conventions of STEM communication. Students will learn how to identify audiences and determine purposes for writing so they can make informed choices about media, genre, content, organization, style, and visual design. Students develop their skills by writing and analyzing Lab Reports and abstracts and by applying the scientific method to solve problems. Meets Gordon Rule Writing Requirement.

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

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

ENC 4940  Writing and Editing Internship
3-6 sh (may be repeated for up to 6 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits ( Repeat Rule )</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 5333</td>
<td>Topics in Rhetoric</td>
<td>3 sh</td>
<td>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.</td>
</tr>
<tr>
<td>ENC 5905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>Offered concurrently with ENG 5825; graduate students will be assigned additional work. Co-requisite: ENC 3350; graduate students will be assigned additional work. Permission is required. Offered only Fall and Spring Semesters.</td>
</tr>
<tr>
<td>ENC 5945</td>
<td>English Internship</td>
<td>3 sh</td>
<td>Course description: Students will be placed in internship positions with professional businesses and non-profit organizations in which they may use their advanced skills in writing, research, creativity, and analysis within a professional environment. Students will write final evaluations of their employer site, a lengthy research &amp; reflection paper, and a professional portfolio. 12 hours of graduate courses must be completed prior to taking course. Permission is required. Offered only Fall and Spring Semesters.</td>
</tr>
<tr>
<td>ENG 2905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>Co-requisite: ENC 3350</td>
</tr>
<tr>
<td>ENG 3010</td>
<td>Critical Methods for Literary Study</td>
<td>3 sh</td>
<td>Required texts will vary according to instructor's expertise. Permission is required.</td>
</tr>
<tr>
<td>ENG 3843</td>
<td>Theories of Sexuality and Gender</td>
<td>3 sh</td>
<td>Required texts will vary according to instructor's expertise. Permission is required.</td>
</tr>
<tr>
<td>ENG 3905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>Required texts will vary according to instructor's expertise. Permission is required.</td>
</tr>
<tr>
<td>ENG 4013</td>
<td>Introduction to Literary Theory</td>
<td>3 sh</td>
<td>Required texts will vary according to instructor's expertise. Permission is required.</td>
</tr>
<tr>
<td>ENG 4060</td>
<td>HISTORY OF THE ENGLISH LANGUAGE</td>
<td>3 sh</td>
<td>Required texts will vary according to instructor's expertise. Permission is required.</td>
</tr>
<tr>
<td>ENG 4823</td>
<td>Careers in Writing</td>
<td>3 sh</td>
<td>In this course students will examine and research professional and post-degree concerns for English Majors. There will be a series of projects and course materials related to various career fields such as publishing, editing, grant writing, academia, non-profit promotion and marketing, professional and technical writing, social media management and web marketing, freelance article writing, and writing for specialty websites. The course will also incorporate an assignment designed to help students develop materials needed for application in each of these fields: resume &amp; curriculum vitae, cover letters, query letters, personal web presence, and interview techniques. Offered concurrently with ENG 5825; graduate students will be assigned additional work.</td>
</tr>
<tr>
<td>ENG 4905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>Co-requisite: ENC 3350; graduate students will be assigned additional work. Permission is required.</td>
</tr>
<tr>
<td>ENG 5067</td>
<td>History of the English Language</td>
<td>3 sh</td>
<td>Required texts will vary according to instructor's expertise. Permission is required.</td>
</tr>
<tr>
<td>ENG 5825</td>
<td>Careers in Writing</td>
<td>3 sh</td>
<td>In this course students will examine and research professional and post-degree concerns for English Majors. There will be a series of projects and course materials related to various career fields such as publishing, editing, grant writing, academia, non-profit promotion and marketing, professional and technical writing, social media management and web marketing, freelance article writing, and writing for specialty websites. The course will also incorporate an assignment designed to help students develop materials needed for application in each of these fields: resume &amp; curriculum vitae, cover letters, query letters, personal web presence, and interview techniques. Offered concurrently with ENG 4823; graduate students will be assigned additional work.</td>
</tr>
<tr>
<td>ENG 5905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
<td>Co-requisite: ENC 3350; graduate students will be assigned additional work. Permission is required.</td>
</tr>
</tbody>
</table>
ENG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENG 6971 Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

ENL-English Literature Courses

ENL 2010 History of English Literature I
3 sh (may not be repeated for credit)
Historical survey of British literature from Beowulf to 1660. Open to all students. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement.

ENL 2020 History of English Literature II
3 sh (may not be repeated for credit)

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

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

ENL 4203 Old English Language
3 sh (may not be repeated for credit)
Language instruction for speaking, writing, and reading Old English. Offered Fall semester only.

ENL 4210 Topics in Medieval Literature
3 sh (may not be repeated for credit)
Prerequisite: ENL 2010
Students read and discuss a variety of texts by diverse authors across the 1000-year period which can be termed the extended Middle Ages, as well as significant precursor texts and authors, in order to discover lines of origin and influence for evolving formal, stylistic, socio-political and theological results, and to acquire an aesthetic appreciation of the literatures of the period. An awareness of significant critical and theoretical terminologies will be developed and incorporated into classroom discussion and writing projects.

ENL 4224 Topics in Early Modern Literature
3 sh (may be repeated for up to 8 sh of credit)
Focused study of a particular issue, theme or body of work in sixteenth and seventeenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary depending on faculty expertise and research interests.

ENL 4234 Topics in Eighteenth-Century British Literature
3 sh (may not be repeated for credit)
Focused study of a particular issue, theme or body of work in Restoration and eighteenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary according to faculty expertise and research interests.

ENL 4240 Topics in Romantic Literature
3 sh (may not be repeated for credit)
Selected topics engaging the prose and poetry of major Romantics: Blake, Coleridge, Wordsworth, Byron, Keats, Shelley.

ENL 4251 Topics in Victorian Literature
3 sh (may not be repeated for credit)
Covers the period leading up to and including the reign of Queen Victoria of England (1837-1901). Literary works will be considered in the context of numerous cultural transformations underway during the period.

ENL 4284 Topics in 20th-Century and Contemporary British Literature
3 sh (may not be repeated for credit)
Covers representative works from all genres written from 1900 to the present by authors living in the British Empire. Emphasis will be placed on Modernist and Postmodernist works.

ENL 4303 Single Author Seminar, British Literature, 1700 to the Present
3 sh (may not be repeated for credit)
Prerequisite: ENG 3010
This course is designed to give students an in-depth view into British Literature through detailed study of the work of a single canonical author. Extended study of the oeuvre of a single author gives students insight into not only specific moments of history and the overall scene of publishing/literature, but also how a specific author’s style and treatment of themes develop over time.

ENL 4311 Chaucer
3 sh (may not be repeated for credit)
Canterbury Tales read in Middle English.

ENL 4333 Shakespeare
3 sh (may not be repeated for credit)
Selected comedies, histories and tragedies.

ENL 4341 Milton
3 sh (may not be repeated for credit)
Major and selected poems; emphasis on reading of Paradise Lost.

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

ENL 5206 Old English Language
3 sh (may not be repeated for credit)
Language instruction for speaking, writing, and reading Old English. Offered Fall Semester.

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

ENL 6297 Topics in British Literature to the Romantics
3 sh (may be repeated for up to 12 sh of credit)
Studies in major figures or movements in British literature until 1789.

ENL 6298 Topics in British Literature from the Romantics to Present
3 sh (may be repeated for up to 12 sh of credit)
Studies in major figures or movements in British literature from 1789. Topics change each term. See department or instructor for specific topic.

ENL 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
**ENT-Entrepreneurship Courses**

**ENT 2612  Entrepreneurial Creativity and Innovation**  
3 sh (may not be repeated for credit)  
This course explores the integral role creativity and generation of ideas play in the innovation process. The course is designed to examine the theory behind creativity and innovation and to analyze how individual characteristics and organizational processes can enhance creativity. Students will engage in experiential learning assignments and exercises to facilitate skill development and increased confidence in these important areas. Students will work individually and in teams to apply the course content to a variety of real-world scenarios.

**ENT 4615  Foundations of Entrepreneurial Leadership**  
3 sh (may not be repeated for credit)  
The course provides a transformative experience beyond the classroom by helping student develop an entrepreneurial mindset that can be applied to startups as well as organizations of all kinds. The class will promote active learning and engagement. Student will be required to address the challenges of generating new ideas, designing valued innovations, conceptualizing business opportunities and envisioning new business models in a global framework to achieve a competitive advantage.

**ENT 4940  Internship in Entrepreneurial Leadership**  
3 sh (may not be repeated for credit)  
This internship is facilitated through the Center for Entrepreneurship and marks the final step toward completing the Innovation Leadership minor. It affords students the opportunity to be embedded in an actual enterprise, learn first-hand how innovation works in that enterprise and contribute to the success of the enterprise. Candidate enterprises may include new entrepreneurial ventures as well as those existing enterprises who partner with the Center for Entrepreneurship and the College of Business. Students will engage in experiential learning assignments and exercises and work to achieve the experiential objectives in a variety of real-world scenarios. All proposals for internship must be approved by advisor, chairperson and sponsor. All internships include seminar on internship experience, including weekly journals, written reports and an oral presentation to department chairperson. Graded satisfactory/unsatisfactory basis only. Permission is required.

**ESC-Earth Science Courses**

**ESC 2000  Introduction to Earth Science**  
3 sh (may not be repeated for credit)  
This course introduces concepts that form the foundation of our understanding of Earth's physical environment, including an examination of processes that formed Earth and continue to affect its physical environment and the communities that live on its surface. This course demonstrates the basic relationships among lithosphere, hydrosphere, atmosphere, and biosphere, including the human interactions with the physical Earth system. Meets General Education requirement in Natural Sciences.

**ESC 2000L  Introduction to Earth Science Laboratory**  
1 sh (may not be repeated for credit)  
Co-requisite: ESC 2000  
This course introduces concepts that form the foundation of our understanding of Earth's physical environment, including an examination of processes that formed Earth and continue to affect its physical environment and the communities that live on its surface. This course demonstrates the basic relationships among lithosphere, hydrosphere, atmosphere, and biosphere, including the human interactions with the physical Earth system. Co-requisites: ESC 2000.

**ESE-Education: Secondary Courses**

**ESE 3905  Directed Study**  
1-12 sh (may be repeated indefinitely for credit)  
**ESE 4322  Instruction, Management, and Assessment: Secondary Education**  
3 sh (may not be repeated for credit)  
This course provides an introduction to the teacher's role in managing the classroom, instruction, and evaluation as it relates to teaching the essential secondary (grades 6-12) school competencies. Models of teaching are briefly introduced to support new teachers in developing a broader perspective regarding teaching practice and their implications for classroom management. Throughout the course, students will investigate the effective (authoritative) teacher perspective with respect to each model with the following teaching-learning goals in mind:

1. Organizing the classroom for a productive learning environment;
2. Building positive student-teacher relationships for culturally responsive instruction;
3. Handling challenging circumstances with effective strategies;
4. Supporting students with special needs; and
5. Assessing and evaluating student understanding and skills.

**ESE 4905  Directed Study**  
1-12 sh (may be repeated indefinitely for credit)  
**ESE 4940  Secondary Practicum**  
3 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: (EDF 3234 AND SSE 4113*) OR ECT 4380* OR MAE 3324* OR LAE 3324* OR SCE 4320*  
Secondary Practicum is designed to be the culminating experience for those preparing to become a professional educator. This program will provide the student with a secondary school placement in their discipline in which they will apply knowledge and skills from their coursework. The placement will provide opportunities for students to practice skills under careful observation and in cooperation with a supervising teacher. During the 100 hour placement, students will observe quality teaching strategies and then plan, deliver and evaluate multiple lessons. Permission is required.

**ESE 5905  Directed Study**  
1-12 sh (may be repeated indefinitely for credit)  
**ESE 6905  Directed Study**  
1-12 sh (may be repeated indefinitely for credit)  
* This course may be taken prior to or during the same term.
EST-Electronic Specialty Tech Courses

ETD-Engineer Technol: Drafting Courses

ETD 2320  Computer Aided Design
3 sh (may not be repeated for credit)

Provides in-depth, hands-on experience using a single, industry-standard CAD application. Students will use application mode settings and drawing aids, shortcuts, and other software features to prepare work.

ETI-Engineering Tech: Indus Courses

ETI 3445  Construction Estimating
3 sh (may not be repeated for credit)

Processes involved in estimating, including the formats appropriate for construction jobs and projects are examined. Terminology, software options, and general requirements will be explored. Modeling of real-world experiences will include a project bid and formal "mock" bid opening.

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

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

ETM-Engineering Tech:Mech Courses

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

EUH-European History Courses

EUH 1000  Western Perspectives I
3 sh (may not be repeated for credit)

Study of the West's geographical, cultural, political, and economic environments, with an emphasis on how the development of the Western World is part of a larger process of historical development. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.

EUH 1001  Western Perspectives II
3 sh (may not be repeated for credit)

Study of the West's geographical, socio-cultural, political and scientific developments with an emphasis on how changes in these areas helped to shape civilization in the West, influenced the non-western world, and provided insight into the current conditions in the West and its relationship with the global community. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.

EUH 3121  Fall of Rome, Birth of Europe
3 sh (may not be repeated for credit)

Analysis of the continuity and changes in the social, religious, and political life of what constituted Rome's empire following its decline. Study of the converging cultures that created Europe. Covers the period 400-1050.

EUH 3122  High Middle Ages
3 sh (may not be repeated for credit)

Covers the formation of Europe from 1050-1450, a period of dramatic change. Dispels the notion of the "Dark Ages" by analyzing social alignments, religious reform, the rise of universities, economic advancement, and the development of constitutional forms of government.

EUH 3200  Early Modern Europe
3 sh (may not be repeated for credit)

Developing nations emphasizing political, social, economic, cultural and intellectual aspects of Europe from 1500 through French Revolution and Napoleonic period.

EUH 3203  Modern Europe
3 sh (may not be repeated for credit)

European history since 1815, emphasizing contemporary problems, their historical development and interpretations. Credit may not be earned in both EUH 3203 and EUH 3205. Meets Multicultural Requirement.

EUH 3280  The Second World War
3 sh (may not be repeated for credit)

Examines the military, social, political, diplomatic, cultural, and economic aspects of the Allied and Axis powers on all fronts of World War II.

EUH 3411  Rome and the Mediterranean World
3 sh (may not be repeated for credit)

The development of Rome from a tiny town to its domination of the entire Mediterranean. Focuses on the structures of family, government, and military that allowed for this 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 4140  The Renaissance in Italy and Northern Europe
3 sh (may not be repeated for credit)

This course on "the Renaissance" will examine the Italian and Northern European Renaissances, extending from the early 14th century through the 17th century, and encompassing the lasting and significant changes in political, philosophical, religious, artistic, literary, and commercial systems and structures in Europe.
EUH 4142 Renaissance and Reformation
3 sh (may not be repeated for credit)
A topical introduction to the major changes affecting European society from 1300 to 1650. Focuses on economic change, social stratification, cultural diffusion, political rivalries, and religious crossroads. Special coverage of consumerism, social welfare, education, toleration, and women and families.

EUH 4185 Vikings in History and Legend
3 sh (may not be repeated for credit)
The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archaeological evidence, this course examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandinavia as well as outlying areas of Russia, England and North America. Offered concurrently with EUH 5196; graduate students will have additional work.

EUH 4239 Age of Empires
3 sh (may not be repeated for credit)

EUH 4242 The First World War
3 sh (may not be repeated for credit)
Origins, evolution and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany's culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflict in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 5246; graduate students will be assigned additional work.

EUH 4245 Interwar Europe 1918-1939
3 sh (may not be repeated for credit)
Examines events in selected countries of Europe between the First and Second World Wars. Lectures and readings will consider many aspects of European life, with an emphasis on political, economic, and social issues. In each section, the focus will be on how states cultivated or failed at maintaining representative democracy.

EUH 4453 The French Revolution
3 sh (may not be repeated for credit)
This course is designed to provide the student with an extensive understanding of the origins, evolution and consequences of the French Revolution and the rise of Napoleon Bonaparte.

EUH 4462 Germany since 1866
3 sh (may not be repeated for credit)
Beginning with unification of Germany between 1866 and 1871, this course will consider the history of imperial Germany, the Weimar Republic, the Third Reich, divided Germany after 1945, and Germany's reunification in 1989-90.

EUH 4465 Nazi Germany
3 sh (may not be repeated for credit)
Origins, evolutions and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Various military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 5467; graduate students will be assigned additional work.

EUH 4450 English Constitutional and Legal History
3 sh (may not be repeated for credit)
English constitutional history from Anglo-Saxon period to present; emphasis upon historical development of English governmental institutions (e.g. parliament, monarchy and legal system), interpretation of their interrelationship and their overall impact upon English nation. Much use of primary sources.

EUH 4511 Tudor and Stuart England
3 sh (may not be repeated for credit)
England at home and in international relations during the Tudor and Stuart dynasties (1485-1714). Strong emphasis on overall development and use of primary sources.

EUH 4521 Victorian England
3 sh (may not be repeated for credit)
England and British Empire in 19th century: emphasis upon economic, social, cultural and constitutional history.

EUH 4522 Modern Britain
3 sh (may not be repeated for credit)
Survey course in British history in the modern period. Overview of British history from the end of the Victorian period in 1901 to the present.

EUH 4525 England and America from the Colonial Period to Present
3 sh (may not be repeated for credit)
Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British empire. Offered concurrently with EUH 5539; graduate students will be assigned additional work.

EUH 4545 British Political Thought in the Early Modern Era
3 sh (may not be repeated for credit)
The development of political thought in the British Isles during the Tudor, Stuart, and Hanoverian periods, from the accession of Henry VIII to the death of George IV.

EUH 4550 Habsburg Monarchy 1526-1918
3 sh (may not be repeated for credit)
Examines the Habsburg Monarchy from its inception to its demise at the end of the First World War. Covers the rise of the monarchy, dynastic affairs of the Habsburgs, problems of political integration, the Monarchy as a bastion against the Islamic Turks, the age of the Counter Reformation and the Baroque, Metternich's diplomacy after the Napoleonic Wars, economic development, constitutional difficulties, nationality problems, Viennese culture around 1900, and the Monarchy's dissolution.
EUH 4614 Medieval Women
3 sh (may not be repeated for credit)
Survey of the experiences of women from the beginning of the Christian era through the Reformation. Focuses on Western Europe and pays particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and especially the Church in defining women's work, and social and family roles.

EUH 4640 European Agrarian and Social History
3 sh (may not be repeated for credit)
Focuses on the life of peasants and farmers throughout Europe from the seventeenth century until the present to see how agriculturalists survived on the land, interacted with other social classes, contended with industrialization and urbanization, immigrated to the New World, and participated in all sorts of political systems (democratic, dictatorial, fascist, and communist). The final portion will consider the farmer's role in the European Union. Special sections will deal with folk art and music, food, literature, and other aspects of rural culture.

EUH 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EUH 5178 Medieval Women
3 sh (may not be repeated for credit)
Medieval Women, which focuses on the experiences of women from the beginning of the Christian era through the early Renaissance in Western Europe and the Mediterranean. This course will pay particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and the Church in defining women's work, social roles and opportunities, and family functions and responsibilities. Excerpts from primary sources written by women will be read and analyzed, and carefully explored according to History methodology, to understand more deeply their everyday challenges, struggles, and experiences. Offered concurrently with EUH 4614; graduate students will be assigned additional work.

EUH 5196 Vikings in History and Legend
3 sh (may not be repeated for credit)
The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archaeological evidence, this course examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandinavia as well as outlying areas of Russia, England and North America. Offered concurrently with EUH 4185; graduate students will be given additional work.

EUH 5287 The Second World War
3 sh (may not be repeated for credit)
The general objective of this course is to provide students with a deeper knowledge of the origins, evolution, and consequences of World War II.

EUH 5467 Nazi Germany
3 sh (may not be repeated for credit)
Origins, evolution, and consequences of the rise of Nazi Germany, ascendency of Adolf Hitler and subsequent erosion of traditional European culture. Military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 4465; graduate students will be assigned additional work.

EUH 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EUH 6338 Seminar: East Central Europe and the Balkans
3 sh (may not be repeated for credit)
Students will examine a specific aspect of a state, ethnic group, or region in East-Central Europe and the Balkans since 1815. Requires readings and reports, but the largest portion of the grade is based on an analytical research paper using primary and secondary sources.

EUH 6666 European Ideologies and Political Movements Since 1789
3 sh (may not be repeated for credit)
Examines the great political ideologies, movements, and theories that shaped not only European affairs but Western thought as a whole from the time of the French Revolution to the present.

EUH 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
EUH 6925 Seminar: Dirt, Death & Disease in Middle Ages
3 sh (may not be repeated for credit)
Prerequisite: HIS 5059
This graduate reading seminar will provide the history graduate student with a thorough introduction to the main themes and areas of historical study within the field of European History from c. 300 to 1453 AD, focusing on the reality of daily life for the different levels of society. It will also introduce the student to the historiography of pre-modern Europe, including current areas of scholarly debate.

EUH 6935 Faith, Hope, and Conflict: Jerusalem in Antiquity and the Middle Ages
3 sh (may not be repeated for credit)
Jerusalem, the holy city of the three major monotheistic religions today, acquired that designation over millennia. This graduate seminar will explore the evolution of Jerusalem into the ?Holy City? of the ?Holy Land,? from the perspective of each of the three religions. Primary sources from events in the history of ancient and medieval Jerusalem will be read and discussed. Historical evidence for co-existence of the three major religious groups in the microcosm of Jerusalem, their shared religious experiences, and violent conflicts will be investigated, as the land itself became terra sancta.

EVR-Environmental Studies Courses
EVR 2001 Introduction to Environmental Science
3 sh (may not be repeated for credit)
Study of interrelationships between human activity and the natural systems in our environment. Interdisciplinary approach to the study of natural processes and how they affect and are affected by human activity. Particular emphasis will be given to examination of the ways in which science offers solutions to the pressure human activity places on natural resources. Credit may not be received in both EVR2001 and GEO2330. Meets General Education requirement in Natural Sciences.

EVR 2920 Foundations in Environmental Science
1 sh (may not be repeated for credit)
Prerequisite: ESC 2000/L OR GLY 2010/L
A professional development course for students in Earth and Environmental Sciences Department. This course is designed to introduce students to the necessary skills for upper division courses, introduce community engagement opportunities, introduce undergraduate research opportunities and lead students toward an appropriate capstone experience.
EVR 3894 Environmental Writing  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1101 AND ENC 1102

Practice in the scientific methods, research approaches, reference styles, grantsmanship, and technical writing in the environmental sciences. Meets Gordon Rule Writing Requirement.

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

EVR 4023 Coastal and Marine Environments  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 1200/L OR GLY 2100/L

The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers. Offered concurrently with EVR 5071; graduate students will be assigned additional work.

EVR 4035 Environmental Law  
3 sh (may not be repeated for credit)

Overview of current local, state and federal laws relating to the environment. Includes the legal history of current laws and case studies.

EVR 4039 Community Engagement through Environmental Science  
3 sh (may not be repeated for credit)  
Prerequisite: EVR 4039

This course is designed as a Carnegie Service Learning Designation course. Students will bring into practice the theories and ideas they have acquired through previous course lectures and assignments to collaborate with a community partner on a project designed to address a particular community issue. This semester project has two main outcomes: to help the community partner further their mission and to give hands on experience for students in a local environmental organization or agency. The completion of this co-created project will allow students to reflect on the connections between their course lessons, real-world experience, and community needs.

EVR 4050 Environmental Field Research  
3 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: GEO 1200/L OR GLY 2100/L; Completion of 75 hours of college course work is required prior to taking this course.

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS / MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

EVR 4412 Environmental Aspects of Urban Growth  
3 sh (may not be repeated for credit)

The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 5413; graduate students will be assigned additional work. Senior standing is required.

EVR 4823 Environmental Impact Assessment  
3 sh (may not be repeated for credit)

Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 5824; graduate students will be assigned additional work.

EVR 4870 Urban Planning  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 3372 OR EVR 4035

This course examines the interactions between physical and human landscapes that have produced a "third dimension" of geography: the legal landscape. We will analyze the role of law and land-use management (i.e., planning) techniques as major factors in determining how humans use resources and design our patterns of settlement. The course reviews the evolution of public control over land use in the U.S., from its roots in English common law and feudal land organization strategies, through the institution of urban planning and zoning, to contemporary and innovative land use controls available to today's urban planners and land-use managers. Whenever possible, current land-use issues from the Pensacola region are incorporated in class discussion. Students are exposed to a number of critical U.S. Supreme Court opinions on major land-use cases. The primary learning objective of the course is to provide students with a comprehensive "bread and butter" background in the history and techniques of urban planning. The subjectivity of many topics from the course is conducive to lively classroom discussion and (friendly) academic debate.

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

EVR 4941 Practicum in Environmental Studies  
3 sh (may not be repeated for credit)  
Prerequisite: EVR 2920

Supervised field experience in business, government, non-profit, educational or other environmental organization. Offered concurrently with EVR 5332; graduate students will be assigned additional work. Permission is required.

EVR 4949 Co-Op Work Experience  
1 sh (may be repeated for up to 4 sh of credit)

EVR 4970 Research in Earth and Environmental Sciences  
1-3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: EVR 2970

Students will propose, design, and perform a research project in consultation with a UWF professor, who will serve as research supervisor. Research will be summarized and presented within the department and University. Permission is required.
EVR 5071 Coastal and Marine Environments
3 sh (may not be repeated for credit)
This course will investigate the world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Cross listed with EVR 4023; Graduate students will be assigned additional work.

EVR 5332 Practicum in Environmental Studies
3 sh (may be repeated for up to 6 sh of credit)
Supervised field experience in business, government, nonprofit, educational or other environmental organizations. Offered Summer term only. Offered concurrently with EVR 4941; graduate students will be assigned additional work. Permission is required.

EVR 5413 Environmental Aspects of Urban Growth
3 sh (may not be repeated for credit)
The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 4412; graduate students will be assigned additional work. Graduate status is required.

EVR 5435 Urban Planning
3 sh (may not be repeated for credit)
This course will be dual-listed with EVR 4870 (Urban Planning). The course reviews the evolution of public control and over land use as well as planning techniques in the U.S. Students are assigned several critical U.S. Supreme Court opinions on major land-use cases. The primary learning objective of the course is to provide students with a comprehensive "bread and butter" background in the history and techniques of urban planning. Graduate students will be assigned extra work and will be graded using a rubric that reflects the higher performance standards to which graduate students will be held.

EVR 5824 Environmental Impact Assessment
3 sh (may not be repeated for credit)
Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 4823; graduate students will be assigned additional work.

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

EVR 6930 Special Topics in Environmental Sciences
3 sh (may be repeated for up to 9 sh of credit)
Covers various advanced subjects in the environmental sciences, depending on the specialization of the instructor. Topics include environmental pedagogy, coastal meteorology, groundwater modeling, etc. Graduate-level standing is required.

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

EVS-Environmental Science Courses

EVS 4192C Environmental Soil Science
3 sh (may not be repeated for credit)
Examines the delicate nature of soils and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Offered concurrently with EVS5194C (Environmental Soil Science); graduate students will be assigned additional work. Permission is required.

EVS 5194C Environmental Soil Science
3 sh (may not be repeated for credit)
Examines the delicate nature of soil and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Students will be assigned additional work. Permission is required.

EVS 6196C Sampling and Analysis in Environmental Sciences
3 sh (may not be repeated for credit)
Theory and techniques of modern field and laboratory methods used for physical and chemical analysis of soil, sediment, and water samples. Procedures for exploratory data analysis and interpretation. Emphasis will be upon the collection of samples and their subsequent analysis. Written reports and oral presentations are required. Material and Supply Fee will be assessed.

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

EVS 6940 Internship
1-3 sh (may be repeated for up to 6 sh of credit)
Supervised and structured participation in environmental work experience in the private, government, or educational sectors. Permission is required.


EVS 6971  Thesis
1-6 sh (may be repeated for up to 12 sh of credit)
Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

EVT-Education: Voc/Technical Courses

EXP-Experimental Psychology Courses

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

EXP 4204  Sensation and Perception
3 sh (may not be repeated for credit)
Prerequisite: PSY 3213

Will survey the theory and literature related to the study of sensation and perception. Topics will include the neural mechanisms involved in coding sensory information, visual processing, audition, speech perception, cutaneous and chemical senses, development of perceptual processes, and impairment of vision and hearing.

EXP 4250  Human Factors Psychology
3 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 5256; graduate students will be assigned additional work.

EXP 4404  Psychology of Learning
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Principles and applications of learning theories, including conditioning and extinction, reinforcement and punishment, attention, memory, cognitive processes and physiological correlates of memory and cognition. It is preferred that the student has had several other psychology courses.

EXP 4507  Memory and Cognition
3 sh (may not be repeated for credit)
Prerequisite: PSY 3213

Will survey theory and literature related to the study of human memory and cognition. Topics will include attention, memory, imagery, language and bilingualism, problem solving, metamemory, expertise, and the development of language and cognitive processes.

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

EXP 5208  Advanced Sensation and Perception
3 sh (may not be repeated for credit)
Students must take EXP 4204 before enrolling in this course. Students will develop an in-depth understanding of how human beings use environmental energies to sense and perceive the world. Topics include the examination of neural systems involved in vision, audition, somatosensation, olfaction, and gustation. Physiological, psychophysical, and cognitive research methodologies used to understand and predict human perception will be discussed.

EXP 5256  Human Factors Psychology
3 sh (may not be repeated for credit)
Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 4250; graduate students will be assigned additional work.

EXP 5735  Experimental and Correlational Statistics for Psychology
3 sh (may not be repeated for credit)
This course focuses on quantitative research approaches with particular attention given to the selection of procedures for obtaining empirical data that provide meaningful answers to research questions and to the relation between research design and statistical analysis. Topics include researching the literature, developing research questions, designing and evaluating empirical research, and communicating research methods and results in standard technical format (APA style). Ethical issues in the conduct of research will be addressed.

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

EXP 6085  Seminar in Applied Psychological Sciences
3 sh (may not be repeated for credit)
Prerequisite: PSY 6217
This course provides an opportunity for students in the Applied Experimental Psychology (AEP) MA track to explore a range of study domains and research methodologies across the science of psychology. It is intended as an advanced survey course in which faculty members and students from the School of Psychological and Behavioral Sciences present brief seminars in their areas of research and on topics related to student's professional development.

EXP 6506  Advanced Cognitive Psychology
3 sh (may not be repeated for credit)
Students must take PSY 3213 and PSY 3215 and EXP 4404; or an undergraduate degree in Psych before enrolling in this course. Students will develop a broad understanding of current research and theorizing in the various topics of memory and cognition, including attention, memory systems and processes, representation of knowledge, metamemory, language, problem solving, expertise, decision making, and creativity. Emphasis will be placed on current research and theory in human memory cognition. Students will develop an in-depth understanding of a selected topic in cognition and will write a literature review paper discussing current research and theory in this topic.

EXP 6805  Directed Study
1-12 sh (may be repeated indefinitely for credit)

FAS-Fishery Agri Science Courses

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

FIL-Film Courses

FIL 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ACG 3180  Prerequisites: FIN 3403 minimum grade of C. Accounting data and analyzing financial statements. Cross Listed with STA 2023

FIN 3403  Managerial Finance 3 sh (may not be repeated for credit)

Case studies and readings in corporation finance in areas of capital budgeting, working capital management, capital structure, cost of capital, mergers, reorganizations, and international finance. Prerequisite: FIN 3403 AND GEB 3213

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

FIN 4324  Commercial Bank Management 3 sh (may not be repeated for credit)
Prerequisite: FIN 3244 AND FIN 3403


FIN 4414  Financial Theory and Practice 3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Designed as an extension of FIN 3403. Topics such as risk and return, stock and bond valuation, time value of money, and capital budgeting, will be covered in greater depth. New topics will include lease financing, hybrid financing, international finance, et al.

FIN 4424  Problems in Corporate Finance 3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND GEB 3213

Cases and readings in corporation finance in areas of capital budgeting, working capital management, capital structure, cost of capital, mergers, reorganizations, and international finance.

FIN 4504  Investments 3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Introduction to an extensive development of theoretical concepts related to areas of securities analysis and portfolio management.

FIN 4514  Security Analysis and Portfolio Management 3 sh (may not be repeated for credit)
Prerequisite: FIN 3244 AND FIN 4504

Portfolio construction, management and measurement bridging modern theory and practice.

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

FIN 4941  Financial Services Internship 1-6 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Supervised field practicum in financial services-related position. May include activities in any one or more of the functional areas in financial services (commercial banking, mutual funds and investments, insurance, real estate and personal financial planning). Graded on a satisfactory / unsatisfactory basis only. Permission is required.

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

FIN 6406  Financial Management 3 sh (may not be repeated for credit)

Advanced treatment of investment and financing decisions of firms, emphasis on current theory and practice. Course contains a portfolio project. Permission is required.

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

FLE-Foreign Language Education Courses

FLE 2905  Directed Study 1-12 sh (may be repeated indefinitely for credit)
**FLE 3905** Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

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

**FOL- FOREIGN LANGUAGES Courses**  

**FOL 3301** World Languages and Cultures in Contact  
3 sh (may not be repeated for credit)  

In this class, students will be introduced to the various language families of the world. A variety of examples from each of the language families will be provided. Students will also be introduced to several basic linguistic concepts, which will guide our discussion and study of language families. Students will begin by learning the basic universals of all languages, looking at topics such as greetings and good-byes, formality/informality, expression of time and place, expression of gender, universal grammar aspects, and others. We will be answering questions such as: What is language? What are language varieties? What are (universal) basic language features? What has impacted the development of language? Alongside these questions, students will also learn about and discuss underlying social and political conditions that influence a language, as well as different forms of cultural expressions that are mediated through language. Thus, the class will ground students in a basic understanding of how social, religious, political, historical, and foreign factors have influenced and changed languages around the globe, and in turn how the cultural expressions through language establish their own set of social, political, and historical factors. Last but not least, the course will facilitate a rigorous understanding of diversity through language and culture, and let students think about what connects us all, regardless of the variations that exist.  

**FRE-French Language Courses**  

**FRE 1120C** French I  
4 sh (may not be repeated for credit)  

For students with no knowledge of French or with less than two years of high school French. The purpose is to lay a foundation for speaking, writing and reading the language. One hour of lab work is required per week. This course is not available for native speakers.  

**FRE 1121C** French II  
4 sh (may not be repeated for credit)  
Prerequisite: FRE 1120C  

This is a continuation of FRE1120C, a proficiency-oriented course, emphasizing the mastery of the basic skills of the language. An integrated (multi-media) approach to develop proficiency in all the basic language skills: listening/understanding, speaking, reading, and cross-cultural awareness. Students will build on their ability to understand frequently used words in oral contexts, as well as understand and respond appropriately to simple phrases and questions. Emphasis is placed on practical vocabulary and accurate pronunciation. This course is not available to native speakers. Prerequisite is FRE 1120C (minimum grade of C) or successful completion of a placement test.  

**FRE 1905** Directed Study  
1-12 sh (may be repeated indefinitely for credit)  

**FRE 2200** Intermediate Reading and Translation  
3 sh (may not be repeated for credit)  
Prerequisite: FRE 1121C  

The purpose of this course is to offer opportunities for students to develop their language skills and to prepare them for higher-level courses in French. The course will emphasize intensive practice in reading, translation and conversation. The course is intended for students who have previous experience in French, but are not yet prepared for advanced work in the language. This course is not available for native speakers. It has a pre-requisite of FRE1121C (minimum grade of C) or successful completion of a placement test.  

**FRE 2210** Intermediate Composition & Conversation  
3 sh (may not be repeated for credit)  
Prerequisite: FRE 1121C  

Practical oral communication course for students on an intermediate level. Prepares students for FRE 2200. This course is not available for native speakers. FRE 1121C (minimum grade of C) or successful completion of placement test is required.  

**FRE 2211** Intermediate Composition & Conversation II  
3 sh (may not be repeated for credit)  
Prerequisite: FRE 2210  

The purpose of this course is to offer opportunities for students to develop their language skills and to prepare them for higher-level courses in French. The course will emphasize intensive practice in conversation and writing. The course is intended for students who have previous experience in French, but are not yet prepared for advanced work in the language. This course is not available for native speakers.  

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

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

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

**FRE 4955** Supervised Foreign Language Field Experience Abroad  
1-3 sh (may be repeated indefinitely for credit)  

Supervised and individualized foreign language experience tailored to each student's individual proficiency needs in language and culture. Permission is required. Meets Multicultural Requirement.  

**FRE-French Literature Writings Courses**  

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

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

**FRW 4955** Supervised Foreign Language Field Experience Abroad  
1-3 sh (may be repeated indefinitely for credit)  

**GEA-Geography: Regional Areas Courses**  

**GEA 2000** Nations and Regions of the World  
3 sh (may not be repeated for credit)  

Regional treatment of the physical & cultural environments of the world. Interdependence of peoples and nations of the world will be stressed within the context of environmental attributes and shortcomings and human responses to environmental opportunities or limitations. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.
GEA 4405  Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Credit cannot be received for both GEA 4405 and GEA 4400. Meets Multicultural Requirement.

GEA 4730  Geography of Japan
3 sh (may not be repeated for credit)
A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

GEA 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
GEA 5408  Geography of Latin America
3 sh (may not be repeated for credit)
A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEA 5731  Geography of Japan
3 sh (may not be repeated for credit)
A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 4730; graduate students will be assigned additional work.

**GEB-General Business Courses**

GEB 1011  Introduction to Business
3 sh (may not be repeated for credit)
Provides in-depth coverage of all aspects of business by presenting an integrated and balanced review of the external and internal forces that comprise business and economic systems. Intended primarily for freshmen/sophomores to assist the student's selection of a business career or business major. Meets General Education requirement in Social Sciences.

GEB 3032  Business Foundations for Non-Business Majors
3 sh (may not be repeated for credit)
Provides non-business students a foundation in the functional areas of management, marketing, finance, accounting and economics. Designed to provide students with a knowledge base that will give access to a broad range of upper level business courses. Available only to non-business majors.

GEB 3213  Writing for Business: Theory and Practice
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102
Augments the basics of business writing while reviewing the various kinds of written business correspondence. Students are expected to integrate ethical decision making skills, word processing skills, grammar and writing skills, and analytical thinking skills into the content. Students must be able to determine solutions to problem based exercises. Team assignments and oral presentations may relate to student's discipline. Meets Gordon Rule Writing Requirement.

GEB 3453  Business Ethics and Stakeholder Management
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND ECO 2023 AND MAN 3025
Managers are confronted with increasingly complex environments and face challenges trying to balance economic, legal, and ethical responsibilities vis-a-vis the stakeholder groups with which they interact. This course investigates the spectrum of business ethics and social responsibility issues that managers face in today's organizations. Course will be grounded in contemporary events and addresses these challenges from an individual and a managerial perspective.

GEB 4361  International Business
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND GEB 3213 AND MAN 3025 AND MAR 3023
Introduces students to the complexities of conducting business on a global scale. Businesses typically develop in a domestic setting and then expand into international commerce. Focuses on the necessary adaptations of business practices for success in global markets. Offered concurrently with GEB 5365; graduate students will be assigned additional work. Meets Multicultural Requirement.

GEB 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
GEB 4942  Internship Pensacola: Professional Development Seminar
3 sh (may not be repeated for credit)
Taken in conjunction with an internship. Designed to enhance the internship experience by presenting topics to help students succeed in an internship and career. Seminar format includes discussion of readings, oral presentations, group discussions, role-playing, and in-class reflections. Guest speakers will present in their areas of expertise. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

GEB 5116  Venture Development
3 sh (may not be repeated for credit)
Prerequisite: GEB 5118
Students develop the knowledge and skills to begin a start-up business and evaluate it for possible launch. The curriculum includes constructing a board of directors, adding managers for key functions, reaching revenue targets and examining the steps of taking a company public.
GEB 5118  New Ventures
3 sh (may not be repeated for credit)

Students will develop the knowledge and skills needed to start a new business. They create potential opportunities, assess the opportunities and evaluate how to seek seed capital through an elevator speech and business plan with an eye toward the profitability horizon. Students are expected to have an understanding of financial accounting and the business relationships that exist between the generation and use of financial information.

GEB 5509  Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit Organizations
1.5 sh (may not be repeated for credit)

Prerequisite: GEB 5872

Explores the application of generally accepted accounting principles (GAAP) to Not-for-Profit Organizations (NPO). Analysis of actual NPO financial statements is covered. Students will be exposed to IRS Form 990 and required to compare and contrast the Form presented in the textbook with the latest version of Form 990 released in 2009. Permission is required.

GEB 5816  MBA Foundations: Principles of Human Resources Management
1.5 sh (may not be repeated for credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to the basic functions of human resource management, including employment law, planning, job analysis, recruitment and selection, training and development, performance management, compensation and benefits, employee and labor relations, safety and health, and international human resource management.

GEB 5820  MBA Foundations: e-Business Systems
1.5 sh (may be repeated for up to 3 sh of credit)

A course in the Accelerated MBA Foundations Series in which students will gain an understanding of the principles of e-Business systems planning, development, and implementation. The overall objective is to provide a common foundation composed of the fundamental concepts required for the use and application of systems and technologies found in the e-Business environment. Permission is required.

GEB 5871  MBA Foundations: Managerial Economics
1.5 sh (may be repeated for up to 3 sh of credit)

A course in the Accelerated MBA Foundations Series in which students will gain an understanding of basic economics. Special emphasis will be placed on the determinants of supply and demand and the desirable properties of a competitive equilibrium; followed by the undesirable properties of markets with a monopoly and with externalities. Permission is required.

GEB 5872  MBA Foundations: Financial Management I
1.5 sh (may be repeated for up to 3 sh of credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to the accounting process of analyzing, measuring, and reporting business activity. Explores the precise language, assumptions, concepts, principles, and logic patterns inherent in the analysis and measurement of business activity. Describes the form and content of major financial statements. Briefly introduces the recording and reporting process used by accounting systems and examines basic financial reporting issues.

GEB 5873  MBA Foundations: Financial Management II
1.5 sh (may be repeated for up to 3 sh of credit)

A course in the Accelerated MBA Foundations Series in which students who have an understanding of financial accounting are introduced to the business relationships that exist between the generation and use of financial information. Includes the role of accounting in measuring financial performance, an overview of financial management, keys to understanding financial information via financial ratio analysis, effective use of financial analysis, and a brief introduction to the time value of money.

GEB 5874  MBA Foundations: Financial Management III
1.5 sh (may be repeated for up to 3 sh of credit)

A course in the Accelerated MBA Foundations Series in which students with an understanding of financial analysis are introduced to financial valuation and decision making tools that are used by managers and owner/managers of business organizations. The three foundation concepts covered are the Time Value of Money, the Risk-Return Relationship, and the use of Incremental After-Tax Cash Flows. Provides a theoretical understanding and a practical application in financial decision-making. Permission is required.

GEB 5875  MBA Foundations: Management Skills and Applications
1.5 sh (may be repeated for up to 3 sh of credit)

Covers the historical evolution of management, organizational design, motivation, team building, leadership, change management, culture, strategic planning, and critical implementation/control elements critical to successful management and strategy. Social responsibility, ethics, globalization, and futures are also stressed.

GEB 5876  MBA Foundations: Marketing Management
1.5 sh (may be repeated for up to 3 sh of credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to foundational concepts of marketing management processes. Provides students with intensive exposure to the basic philosophy, concepts, and knowledge common to effective marketing management.

GEB 5878  Business Process Integration
1.5 sh (may not be repeated for credit)

An introductory MBA core course in which students must combine the practical skills and discipline of specific concepts learned in previous foundation courses in order to solve a complex integrated real-life business problem. Serves as an initial integrating experience from which to launch students into the core MBA study. Permission is required.

GEB 5879  MBA Foundations: Business Analytics
1.5 sh (may not be repeated for credit)

Business requires the application of a variety of analytical tools. Integrates several key analytical tools into a specific business decision framework that focuses on the interrelationship of these tools as they are used in business decisions. After an on-line review/introduction of basic algebraic and financial equations, combines the concepts of time value of money, descriptive statistics, production functions, correlation, simple regression and specifically applied calculus into a decision-making framework. This framework will serve as a foundation for analysis in subsequent courses and create a model for considering risk adjusted financial consequences of future business decisions. Permission is required.

GEB 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
GEO 5930 Information Resources and Industry Analysis  
1.5 sh (may not be repeated for credit)  
Provides the background for beginning the MBA Portfolio. Gives introduction to information resources available to perform business problem analysis. Students learn to prepare a thorough analysis of their Portfolio industry.

GEO 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.

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

**GEO-Geography: Systematic Courses**

GEO 1200 Physical Geography  
3 sh (may not be repeated for credit)  
Relationship between natural environment and man. Weather, climate, soils, biogeography and land forms. Physical earth treated so that the student gains appreciation of man's place and activities within his/her environment. Material and supply fee will be assessed for corresponding lab. Meets General Education requirement in Natural Sciences.

GEO 1200L Physical Geography Lab  
1 sh (may not be repeated for credit)  
Prerequisite: GEO 1200  
Corresponding lab for Physical Geography.

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

GEO 3210 Geomorphology  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/L  
Description of landforms and landscapes on the Earth's surface, along with a systematic analysis of the geomorphic processes that produce them. Emphasis is placed on the climatic and geologic controls on landscape evolution.

GEO 3210L Geomorphology Lab  
1 sh (may not be repeated for credit)  
Prerequisite: GEO 3210  
A one-credit, practical laboratory course, reinforcing concepts from an associated lecture section (GEO 3210), and requiring both quantitative and conceptual analyses of geomorphic data to draw conclusions about real-world geomorphic processes and landform/landscape evolution.

GEO 3372 Conservation of Natural Resources  
3 sh (may not be repeated for credit)  
Nature and extent of mineral, soil, water, forest and wildlife resources and their conservation, with particular emphasis on the United States against a general background of world resources. Conservation philosophies, practices and their geographic bases. Occasional field trips may be arranged.

GEO 3421 Cultural Geography  
3 sh (may not be repeated for credit)  
Sociocultural distributions with emphases on social regions, spatial behavior and cultural landscapes. Topics include population, spatial diffusion and processes, race, language, religion, political organization, methods of livelihood, settlement patterns, and the regional distribution of the elements over the earth. Meets Multicultural Requirement.

GEO 3471 Geography of World Affairs  
3 sh (may not be repeated for credit)  
Geographic study of world events; environmental influences on events; impact of events on environment; ramifications of events on social, economic, political, physical and psychological worlds. Credit cannot be received for both GEO 3471 and GEO 3470. Meets Multicultural Requirement.

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

GEO 4004 Environmental Science, Politics and Policy  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1102  
This course examines the role of science in the environmental policy-making process - both locally and internationally. It investigates the methods scientists use to learn about the natural world; the way scientific knowledge accumulates and disseminates; the treatment of science by advocates, dissenters, and the media; and the role of science in decision making about environmental issues.

GEO 4005 Environmental Management & Planning  
3 sh (may not be repeated for credit)  
Prerequisite: EVR 2920  
This course will cover important and substantive issues, concepts, and tools in the field of environmental planning and management. It will provide insight into the many actors (e.g., individuals, organizations, agencies, and levels of government) involved in environmental management and planning ? both locally and internationally, and try to identify ways in which we are responsibly managing (or not) our physical environment. At the end of the course, you will have a better understanding of how the field of environmental management and planning has evolved, the issues that environmental managers and planners deal with, and the type of work environmental managers and planners engage in.

GEO 4164 Geostatistics  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043/L AND STA 2023  
Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 5165; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 4221 Coastal Morphology and Processes  
3 sh (may not be repeated for credit)  
Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/L  
Co-requisite: GEO 4221L  
An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies and environmental concerns. Offered concurrently with GEO 5225; graduate students will be assigned additional work.
GEO 4221L Coastal Morphology and Processes Laboratory
1 sh (may not be repeated for credit)
Co-requisite: GEO 4221
Laboratory correlating with GEO 4221. Offered concurrently with GEO 5225L; graduate students will be assigned additional work. Material and supply fees will be assessed.

GEO 4250 Weather and Climate
3 sh (may not be repeated for credit)
Prerequisite: GEO 3210/L*
Nature of individual weather elements, their measurements, and analysis over time and space. Analysis of global climate emphasizing control factors, resulting areal patterns and climatic classifications. Emphasis upon North American weather and climate patterns, micro climate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

GEO 4250L Weather and Climate Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 4250*
A one-credit, practical laboratory course, reinforcing concepts from an associated lecture section (GEO 3250), and requiring both quantitative and conceptual analyses of weather data and weather maps to draw conclusions about real-world weather and/or climate outcomes.

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 4260 Geography of Soils
3 sh (may not be repeated for credit)
Prerequisite: ((CHM 2046/L AND GEO 3210 AND GEO 4260L*)) AND (GEO 1200/L OR GLY 2010/L OR ESC 2000/L)

GEO 4260L Geography of Soils Laboratory
1 sh (may not be repeated for credit)
Prerequisite: GEO 4260*
Deals with the nature, properties and distribution of soils and their relationship to the influence of vegetation, climate, landforms, and human activity. Intended to be fundamental soil science lab that provides hands-on experience. Field trips required. Material and supply fee will be assessed.

GEO 4280 Basic Hydrology
3 sh (may not be repeated for credit)
Prerequisite: CHM 2046/L AND GEO 3210*/L*
Co-requisite: GEO 4280L
Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. Material and supply fee will be assessed for corresponding lab. Offered concurrently with GEOS289; graduate students will be assigned additional work.

GEO 4280L Basic Hydrology Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 4280*
Co-requisite: GEO 4280
Corresponding Lab for Basic Hydrology.

GEO 4332 Senior Seminar
1 sh (may not be repeated for credit)
Prerequisite: EVR 4941 OR EVR 4970 OR EVR 4039
This is a course designed to provide students with skills in researching topics in the field of environmental science and making presentations to their peers along with making post-graduation professional plans. The course consists of a combination of techniques workshops, learning to conduct and present research material, content lectures and guest lectures, discussion, and student presentations. The intent of the course is to prepare upper-level undergraduates for post-graduate study and/or the job market by teaching them research, presentation, and evaluation skills. Senior level standing is required.

GEO 4333 Seminar in Environmental Issues
3 sh (may not be repeated for credit)
Prerequisite: EVR 4941 OR EVR 4970 OR EVR 4039
This course will cover important concepts to understanding the relationship between the environment and economy and how such an understanding can influence environmental action that is economically feasible and economic action that is environmentally supportive. It will provide an introductory insight into the history of thinking that has linked the economy and the environment, the main academic responses to resolve the tensions between the environment and economy, and introduce key topics and tools in understanding and resolving this tension. The course will also focus briefly on how environmental projects are funded in the US, and how to gain funding for such endeavors.
GEO 4376  Landscape Ecology  
3 sh (may not be repeated for credit)  
Prerequisite: BOT 2010/L OR GEO 1200/L OR GLY 2010/L OR ESC 2000/L  
Co-requisite: GEO 4376L  
A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 5378; graduate students will be assigned additional work.  
GEO 4376L  Landscape Ecology Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 4376  
Laboratory section offered with existing Landscape Biogeography course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO 5378L. Graduate students will be assigned additional work.  
GEO 4801  Global Agricultural Sustainability  
3 sh (may not be repeated for credit)  
The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management.  
GEO 4905  Directed Study  
1-12 sh (may not be repeated indefinitely for credit)  
GEO 5165  Geostatistics  
3 sh (may not be repeated for credit)  
Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 4164; graduate students will be assigned additional work. Material and supply fee will be assessed.  
GEO 5225  Coastal Morphology and Processes  
3 sh (may not be repeated for credit)  
Co-requisite: GEO 5225L  
An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies, and environmental concerns. Offered concurrently with GEO 4221; graduate will be assigned additional work.  
GEO 5225L  Coastal Morphology and Processes Laboratory  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 5225  
Laboratory correlating with GEO 5225. Offered concurrently with GEO 4221L; graduate students will be assigned additional work. Material and supply fee will be assessed.  
GEO 5256  Advanced Climatology and Climate Change  
3 sh (may not be repeated for credit)  
A survey of Earth's climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in Global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO 4XX3 (Advanced Climatology); graduate students will be assigned additional work.  
GEO 5289  Basic Hydrology  
3 sh (may not be repeated for credit)  
Co-requisite: GEO 5289L  
This course focuses on the hydrologic cycle, with emphasis on surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Material and supply fee will be assessed for corresponding lab. Cross listed with GEO 4280; Graduate Students will be assigned additional work. Co-requisites: GEO 5289L.  
GEO 5289L  Basic Hydrology Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 5289  
Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Material and supply fee will be assessed for corresponding lab.  
GEO 5378  Landscape Ecology  
3 sh (may not be repeated for credit)  
Co-requisite: GEO 5378L  
A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 4376; graduate students will be assigned additional work.  
GEO 5378L  Landscape Ecology Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GEO 5378  
Laboratory section offered with existing Landscape Ecology course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO 4376L (Landscape Ecology Lab); graduate students will be assigned additional work.
GEO 5805  Global Agricultural Sustainability
3 sh (may not be repeated for credit)

The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management. Graduate students will be assigned additional work. This course will be offered concurrently with GEO 4801.

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

GEO 5930  Seminar in Environmental Issues
3 sh (may not be repeated for credit)

Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 4333; graduate students will be assigned additional work.

GEO 6118  Research Design
3 sh (may not be repeated for credit)

Introduces non-thesis-track Master's students to the essentials of designing and executing a research project in the environmental sciences using the scientific method. Students will design and complete a research project.

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

GEO 6936  Graduate Seminar
3 sh (may not be repeated for credit)

An overview of the disciplinary evolution of the geosciences, the prevailing paradigms and methodologies, and current and future directions in the field. The scientific method, grant proposals, and research publications will be examined in detail.

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

**GER-German Courses**

GER 1120C  German I
4 sh (may not be repeated for credit)

For students with no knowledge of German or with fewer than two years of high school German. Lays a foundation for speaking, writing, and reading the language. One hour of lab work per week is required.

GER 1121C  German II
4 sh (may not be repeated for credit)
Prerequisite: GER 1120C

For students with prior knowledge of German at the basic level and/or completion of GER 1120C. German II continues to introduce students to the German language and German-speaking cultures and further develops abilities in speaking, writing, and reading the language. One hour of lab work per week is required. This course is not available to native speakers. Pre-requisite is GER 1120C (minimum grade of C) or successful completion of a placement test.

GER 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

GER 2240  German Intermediate Composition and Conversation
3 sh (may not be repeated for credit)

This course builds on the skills from GER 2240 (Intermediate German I), and will continue to explore life in the German-speaking countries through reading, discussing, and engaging with medium-long narrative texts in various ways. The course emphasizes vocabulary building, including a thorough review of German grammar, and the composition of short texts to develop writing skills. This course is not available for native speakers. GER 1121C (minimum grade of C) or successful completion of placement test is required.

GER 2241  German Intermediate Composition and Conversation II
3 sh (may not be repeated for credit)
Prerequisite: GER 2240

This is an intermediate foreign language course intended for students who have completed German I and II. Students will expand and perfect their ability to speak, read, write and understand German and learn more about German culture. Students explore life in the German-speaking countries through reading, discussing, and engaging with short narrative texts in various ways. The course emphasizes the German grammar topics, and will engage students in a group project.

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

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

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

**GEY-Gerontology Courses**

GEY 4001  Gerontology
3 sh (may not be repeated for credit)

Course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults.

**GIS-Geographic Inform Syst Courses**

GIS 3015  Cartographic Skills
3 sh (may not be repeated for credit)

Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/L
Co-requisite: GIS 3015L

Designed to teach students the basics of maps, including map projections, datums, grid systems, map interpretations, elements of map design, and basic field mapping. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 3100 and GIS 3015.

GIS 3015L  Cartographic Skills Lab
1 sh (may not be repeated for credit)
Prerequisite: GIS 3015*
Co-requisite: GIS 3015

Corresponding lab for Cartographic Skills.

GIS 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
GIS 4006  Computer Cartography  
3 sh (may not be repeated for credit)  
Co-requisite: GIS 4006L

The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness.

GIS 4006L  Computer Cartography Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GIS 4006

The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness. Prior to enrollment, students should be competent with Windows operating system including: storage, copying and management of multiple data types, managing multiple windows and applications, and discipline to save work frequently; basic competence with ArcGIS and Microsoft Excel is recommended.

GIS 4035  Photo Interpretation and Remote Sensing  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043*L

Applied skills emphasizing the fundamentals of aerial photograph interpretation and basics of multiband spectral reconnaissance of the environment-multispectral photography, infrared, microwave scanning and multifrequency radar systems. Application includes their uses in the study of cultural and biophysical phenomena. Material and supply fee will be assessed for corresponding lab.

GIS 4035L  Photo Interpretation and Remote Sensing Lab  
1 sh (may not be repeated for credit)  
Prerequisite: GIS 4035*

Co-requisite: GIS 4035

Corresponding lab for Photo Interpretation and Remote Sensing.

GIS 4036  Applications in Remote Sensing  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4035/L

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 5039; graduate students will be assigned additional work. 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. Material and Supply Fee will be assessed for corresponding lab. Credit cannot be received for both GIS 4043 and GEO 4151.

GIS 4043L  GIS Laboratory  
1 sh (may not be repeated for credit)  
Co-requisite: GIS 4043

This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. By the end of the course, students are expected to have an understanding of elementary GIS theory, working knowledge of ArcGIS, and the ability to develop GIS-based solutions to geographic modeling and analysis tasks. For most exercises, students will use real-world GIS data in order to learn how to overcome typical problems encountered by GIS practitioners. The last three weeks of the course will focus on the development, execution and presentation of a final GIS project. Prior to enrollment, students should be competent with Windows operating system including: storage, copying and management of multiple data types, managing multiple windows and applications, and saving files to local drives; a basic familiarity with Microsoft Excel, Word, and PowerPoint. Materials and Supply fee will be assessed.

GIS 4048  Applications in Geographic Information Systems  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043/L

The Applications in GIS course strives to provide a balance between the “how-to” of using ArcGIS 10 and the “why” of GIS by explaining the roles GIS technology plays in analyzing local, regional, and international problems. The course builds upon topics covered in Introduction to GIS (GIS 4043). Major components of the course include computer representation of geographic information, the construction of GIS databases, spatial analysis with GIS, application areas of GIS, and management issues that concern GIS. Examples include the study of geohazards, natural disasters, urban planning, homeland security/law enforcement, and marketing or location decisions. Laboratory exercises, case studies and course projects use true-to-life datasets to solve real-world problems. Offered both as a stand-alone course online and concurrently with GIS 5100 at the Pensacola Campus where graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4048 and GEO 4152. Basic competency with ArcGIS software is required. Prior coursework including Introduction to GIS (GIS 4043 with lab) is recommended.
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.

GIS 4102  GIS Programming  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043/L  
In today’s technology driven world we are fortunate to have access to many tools with which to analyze and explore digital spatial data. During this course students will learn to use programming techniques to create applications that perform fundamental spatial analysis and automation tasks, such as geoprocessing, editing, database management, projecting data, and map creation. The course will focus primarily on using the Python programming language within the context of Esri’s desktop GIS environment. Offered as a stand-alone course online and concurrently with GIS 5103 where graduate students will be assigned additional work. Permission required. Credit may not be received in both GIS 4102 and GIS 5103.

GIS 4260  GIS Applications for Archaeology  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043/L  
This course will serve as an introduction to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in the online GIS Certificate program. Basic competency with ArcGIS software is required. Prior coursework including GIS 4043, GIS 4260 and GIS 4102 is recommended. Offered concurrently with GIS 5938; graduate students will be assigned additional work.

GIS 4944  GIS Internship  
1-3 sh (may not be repeated for credit)  
Prerequisite: GIS 4043/L  
Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational or other environmental organizations. Offered concurrently with GIS 5945; graduate students will be assigned additional work. Permission is required.

GIS 5007  Computer Cartography  
3 sh (may not be repeated for credit)  
Co-requisite: GIS 5007L  
The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness.

GIS 5007L  Computer Cartography Lab  
1 sh (may not be repeated for credit)  
Co-requisite: GIS 5007  
The course focuses on the fundamentals of cartography, spatial statistics, thematic mapping techniques, and web based mapping. Students will gain an inter-disciplinary understanding of cartographic representation and visualization with hands on applications using cutting edge GIS and graphic design software to create purpose tailored maps. Upon successful completion of this course, students will be able to interpret and appropriately communicate spatial data; will have developed a personalized cartographic style; will have created a professional GIS portfolio for current/potential employers; and most importantly will have developed a keen appreciation for maps and spatial awareness. Prior to enrollment, students should be competent with Windows operating system including: storage, copying and management of multiple data types, managing multiple windows and applications, and discipline to save work frequently; basic competence with ArcGIS and Microsoft Excel is recommended.
GIS 5027 Aerial Photography and Remote Sensing
3 sh (may not be repeated for credit)
This course is designed to familiarize students with the fundamentals of remote sensing and photo interpretation through hands-on techniques with aerial photographs and satellite imagery based on real-world applications. Both active and passive sensors will be discussed in lecture. The course is broken up into two distinct sections: the first five weeks are spent interpreting digital aerial photographs; the rest of the semester is spent examining and manipulating digital data from satellites and other remote sensors. The lecture will focus on the history, technology, concepts, processes, and applications of Aerial Photography and Remote Sensing. Please consult with the course instructor for any questions regarding these prerequisite concepts. Introduction to GIS, GIS 4043 or GIS 5050 with Lab is recommended prerequisite. Offered concurrently with GIS 4035, graduate students will be assigned additional work.

GIS 5027L Aerial Photography and Remote Sensing Lab
1 sh (may not be repeated for credit)
Prerequisite: GIS 5027*
Co-requisite: GIS 5027
This course is designed to familiarize students with the fundamentals of remote sensing and photo interpretation through hands-on techniques with aerial photographs and satellite imagery based on real-world applications. Both active and passive sensors will be discussed in lecture. The course is broken up into two distinct sections: the first five weeks are spent interpreting digital aerial photographs; the rest of the semester is spent examining and manipulating digital data from satellites and other remote sensors. The lab will focus on techniques for the practical use of digital aerial photography and satellite imagery using both Erdas Imagine and ESRI ArcGIS. The labs are structured to complement the material and readings assigned in lectures. Please consult with the course instructor for any questions regarding these prerequisite concepts. Introduction to GIS, GIS 4043 or GIS 5050 with Lab is recommended prerequisite. Offered concurrently with GIS 4035, graduate students will be assigned additional work.

GIS 5039 Applications in Remote Sensing
3 sh (may not be repeated for credit)
The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 4036; graduate students will be assigned additional work. Material and supply fee will be assessed. Permission is required. Credit cannot be received for both GIS 5039 and GEO 5139.

GIS 5050 Geographic Information Systems
3 sh (may not be repeated for credit)
Co-requisite: GIS 5050L
This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. The applications of GIS are presented. Future issues for GIS and state-of-the-art technology are also discussed. Cross listed with GIS 4043; Graduate students will be assigned additional work.

GIS 5050L Geographic Information Systems Lab
1 sh (may not be repeated for credit)
Prerequisite: GIS 5050*
Co-requisite: GIS 5050
This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. By the end of the course, students are expected to have an understanding of elementary GIS theory, working knowledge of ArcGIS, and the ability to develop GIS-based solutions to geographic modeling and analysis tasks. For most exercises, students will use real-world GIS data in order to learn how to overcome typical problems encountered by GIS practitioners. The last three weeks of the course will focus on the development, execution and presentation of a final GIS project. Prior to enrollment, students should be competent with Windows operating system including: storage, copying and management of multiple data types, managing multiple windows and applications, and saving files to local drives; a basic familiarity with Microsoft Excel, Word, and PowerPoint. Cross listed with GIS 4043L; Graduate students will be assigned additional work. Materials and Supply fee will be assessed.

GIS 5100 Applications in Geographic Information Systems
3 sh (may not be repeated for credit)
The Applications in GIS course strives to provide a balance between the “how-to” of using ArcGIS 10 and the “why” of GIS by explaining the roles GIS technology plays in analyzing local and regional (even global) problems. The course builds upon topics covered in Introduction to GIS (GIS 4043). Major components of the course include computer representation of geographic information, the construction of GIS databases, spatial analysis with GIS, application areas of GIS, and social and management issues that concern GIS. 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 both as a stand-alone course online and concurrently with GIS 4048 on the Pensacola Campus where graduate students are assigned additional work. Material and supply fee will be assessed. Permission is required. Prior coursework including Introduction to GIS (GIS 4043 or GIS 5050 with lab) is recommended.

GIS 5103 GIS Programming
3 sh (may not be repeated for credit)
In today’s technology driven world we are fortunate to have access to many tools with which to analyze and explore digital spatial data. During this course students will learn to use programming techniques to create applications that perform fundamental spatial analysis and automation tasks, such as geoprocessing, editing, database management, projecting data, and map creation. The course will focus primarily on using the Python programming language within the context of Esri’s desktop GIS environment. Offered as a stand-alone course online and concurrently with GIS 4102 where graduate students will be assigned additional work. Permission is required. Credit may not be received in both GIS 5103 and GIS 4102. Basic competency with ArcGIS software is required. Completion of GIS4043 with Lab or GIS5050 with lab is recommended.
GIS 5265   GIS Applications for Archaeology  
3 sh (may not be repeated for credit)  
This course will serve as an introduction to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in the online GIS Certificate program. Basic competency with ArcGIS software is required. Prior coursework including Introduction to GIS (GIS 4043 or GIS 5050 with lab) is recommended.

GIS 5935   Special Topics in Geographic Science  
3 sh (may be repeated for up to 6 sh of credit)  
Geographic information systems (GIS) today are being used by everyone from scientists to everyday citizens to solve geographic problems ranging from the very simple to the extremely complex. As the use of GIS and the availability of digital data increase, GIS users need to be aware of how the data being put into a GIS affects the reliability of the information products being produced from a GIS. Producing new and useful information from spatial data requires a thorough understanding of their limitations and the methods used to process them. Students explore GIS theory and practice related to the visualization, measurement, transformation, and optimization of spatial data. An underlying theme that uncertainty is an inherent characteristic of spatial data is thoroughly examine and students learn how to identify it, measure it, and live with it. By the end of this course, students will have gained extensive knowledge about various GIS analysis techniques, methods, outputs and uncertainties as they relate to specific problems experienced by many cities (large and small) around the world. Combining lessons learned in previous GIS courses with more in-depth techniques presented in this course gives students the opportunity to piece together previous knowledge and gain a greater sense of understanding for what it means to conduct GIS Science. Offered as both a stand alone course online and concurrently with GIS 4930 at the Pensacola Campus where graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed. Competency with GIS topics and ArcGIS software is required. Prior coursework including GIS4043 or GIS5050, GIS 5100 and GIS 5103 are recommended.

GIS 5938   Special Topics in GIS for Archaeology  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 5265  
This course will serve as an advanced approach to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in the online GIS Certificate program. Offered concurrently with GIS 4938; graduate students will be assigned additional work. Competency with ArcGIS software is required. Prior coursework including GIS 4043 or GIS 5050 with lab and GIS5265 is recommended.

GIS 5945   GIS Internship  
1-3 sh (may not be repeated for credit)  
Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational, or other environmental organizations. Offered concurrently with GIS 4944; graduate students will be assigned additional work. Permission is required.

GIS 6005   Communicating GIS  
3 sh (may not be repeated for credit)  
This course begins with the basic theory of graphic design, cartography, and map production and distribution. Students then learn to communicate specific types of spatial and analytical information through maps, written and oral explanations, graphs, tables, charts, and interactive web mapping applications. Course includes lecture, hands-on exercises, written reports, and a final presentation. Restricted to students majoring in MS GIS Administration program, it is best taken during one of the first three semesters. Basic competency in GIS concepts and software is expected.

GIS 6105   Spatial Data Management  
3 sh (may not be repeated for credit)  
This course begins with the basic theory of database design. It then proceeds on to incorporate spatial data and its unique data management requirements. Students then learn how to extract, transform and load spatial data and its associated attribute data using specific GIS case study workflows. Course includes lecture, hands-on exercises, written reports, and a final project with a presentation requirement. Prior coursework in Introduction to GIS and GIS Programming is recommended.

GIS 6110   Advanced Topics in Geographic Information Science  
3 sh (may not be repeated for credit)  
This class brings together a number of open source GIS tools in order to educate students on the methods and processes behind web-based geographic information systems (Web GIS). Specifically, we will review techniques with spatial databases, web mapping application programming interfaces (APIs), geospatial scripting and theories of map interaction within the context of Web GIS. In order to achieve this near-complete picture of how Web GIS works use a pattern of software architecture known as model-view-controller or MVC. Finally, we will cover design considerations for Web GIS within browsers on mobile devices. Material and supply fee will be assessed. Credit cannot be received for both GIS 6110 and GEO 6159. Competency with the principles of GIS and ArcGIS software is required. Prior upper-level GIS course work (GIS 5100, GIS 5935, GIS 5103) is recommended.

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. Restricted to students in MS GIS Administration program and is best completed before enrolling in GIS 6110 Advanced Topics in GIS.

GIS 6905   Directed Study  
1-12 sh (may be repeated indefinitely for credit)
GLY 6905   GIS Capstone
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GIS 6005 AND GIS 6110 AND GIS 6555
A final capstone experience for students who are nearing completion of their MS GIS Administration program. Prior to enrollment, students must submit a capstone intention form to program faculty outlining their project idea, relevant research, potential client(s), and review committee members. Upon faculty approval, the student may enroll in capstone and begin writing a draft project proposal, including a literature review for committee review. By the end of the first semester, students are expected to have completed a final proposal and gain approval from their review committee before enrolling in the second capstone course. The second semester of capstone is dedicated to carrying out the project and presenting findings and/or products in the form of (at least) a paper and presentation. Students work in collaboration with local partners, faculty, or the student's current employer to develop a real-world GIS application. Working independently, students: communicate with project partners to identify project goals; acquire and prepare spatial data for GIS data analysis; communicate with project partners to assess progress; manage spatial data; and produce necessary outputs for presentation as part of a final report. This final project should affirm the student’s ability to think critically and creatively, to solve practical problems, to make reasoned and ethical decisions, and to communicate effectively. The capstone course serves as documentation of the student’s personal mastery of professional competencies. It is designed to be an integrative experience for MS GIS Administration students. Course is restricted to students in their last two semesters of the MS GIS Administration program.

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

**GLY-Geology Courses**

GLY 2010   Physical Geology
3 sh (may not be repeated for credit)
Material, structures, surface features of the earth and processes that have produced them. Meets General Education requirement in Natural Sciences.

GLY 2010L   Physical Geology Laboratory
1 sh (may not be repeated for credit)
Lab correlating with GLY 2010. Material and supply fee will be assessed.

GLY 3031C   Environmental Geology
4 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L OR ESC 2000/L
Discussion oriented study of the application of geology to the spectrum of interactions between people and their physical environment. Earth materials and processes are presented in reference to hazards and concerns that are created naturally and/or by human activities. Role of humans as geologic agents, resource conservation, ecosystem management, and the problems that result from upsetting the established equilibria of geologic systems are illustrated using case studies with emphasis on scenarios in Florida. Possible field trips. Material and Supply Fee will be assessed. Credit may not be earned in both GLY 3880C and GLY 3031C.

GLY 4240   Geochemistry
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200/L OR GLY 2010/L OR ESC 2000/L) AND (CHM 2045)
Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 5246; graduate students will be assigned additional work.

GLY 4244   Biogeochemistry
3 sh (may not be repeated for credit)
Prerequisite: (GEO 1200/L OR GLY 2010/L OR ESC 2000/L) AND (CHM 2045) AND (BOT 1001 OR BSC 1005 OR BSC 1010)
An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 5266; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

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

GLY 5246   Biogeochemistry
3 sh (may not be repeated for credit)
An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 4244; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5266   Biogeochemistry
3 sh (may not be repeated for credit)
An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 4244; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

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

**GRA-Graphic Design Courses**

GRA 2111C   Principles of Graphic Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C
An overview of the formal elements of design, contextualized within a frame work that stresses experimentation, creativity, innovation, and expression. Products using Photoshop, Illustrator and InDesign are oriented toward commercial applications in print based media. Material and Supply Fee will be assessed.
GRA 2208C  Typography
3 sh (may not be repeated for credit)
Prerequisite: GRA 2111C
This course is an examination of basic typography as a compositional tool. Students will explore the architecture of type from a single letterform to an entire page layout. Students will be introduced to the history of typography and explore concepts relating to contextualization of typographic form in relation to that history. This class will investigate issues of denotation and connotation, context and theme, graphic/image-type relationships, and/or expression through a refinement of the craft of typography.

GRA 3102C  Graphic Design Studio I
3 sh (may not be repeated for credit)
Prerequisite: GRA 2111C AND GRA 2208C
This course focuses on the refinement of student's problem-solving abilities through the advanced application of the design process. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture. This course varies by semester and instructor to cover some of the following depending upon the term: Poster Design and Digital Illustration, Branding and Identity Systems, Data Visualization and Information Design, and Packaging Design. Emphasis will be placed on expressive and creative communication through rough design.

GRA 3112C  Graphic Design Studio II
3 sh (may not be repeated for up to 6 sh of credit)
Prerequisite: GRA 3102C
This course focuses on the refinement of student's problem-solving abilities through the advanced application of the design process. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture. This course varies by semester and instructor to cover some of the following depending upon the term: Poster Design and Digital Illustration, Branding and Identity Systems, Data Visualization and Information Design, and Packaging Design.

GRA 3139C  Motion Graphics
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: DIG 3309C AND GRA 2208C
A further articulation of the techniques and components of time-based media design. Exercises and projects will introduce basic concepts of art and design in time. Students will use time and movement, elements of the moving image, serial, sequential, and narrative ordering, moving image editing, sound and image relations, as well as object and event analysis to create time-based designs. Students will develop advanced skills in time-based media as an expressive and communicative art form. Aesthetic, technical, historical, and conceptual issues will be addressed through lectures, demonstrations, exercises, projects, screenings, research, and readings.

GRA 3151C  Digital Illustration
3 sh (may not be repeated for credit)
Prerequisite: ART 2484C AND PGY 2801C
An introductory class in creating illustration in a digital environment. Topics including the study of illustration as visual interpretation of words, concepts, and ideas. Students are challenged by assignments based on jobs typical of those given in the professional arena such as advertising, publishing, and editorial illustration. Students will develop illustrations using traditional thumbnails, sketches, and color studies, and complete the final artwork using industry standard software in a digital environment with digital tablets and pens. Students will learn to render in varying styles, and begin to develop a digital illustration style of their own. Final digital illustrations will be expected to demonstrate the same qualities as traditional illustration, including but not limited to style, composition, color theory, perspective, and concept. Final illustrations will also be assessed for technical cleanliness, edit-ability, and adherence to guidelines given.

GRA 3196C  Contemporary Design Culture
3 sh (may not be repeated for credit)
Prerequisite: ARH 3724 AND GRA 3112C
Exploration of contemporary design culture presented in a studio problem-solving format. Explores how the interplay of artists, designers, and thinkers with technological and economic forces has created the look and feel of the objects and practices that shape our culture. Combines study of pop culture and recent design history with an investigation of philosophical, sociological, psychological, and technological issues. This senior-level studio course consists of three advanced projects that are built around the study of modern, post-modern, and contemporary design theory.

GRA 3521C  Graphic Design for Interactive Applications
3 sh (may not be repeated for credit)
Prerequisite: ART 2602C AND GRA 2111C AND GRA 2208C
An intermediate graphic design course involving complex interactive projects for the web and other technologies using standards-compliant HTML and CSS. Students will have the opportunity to learn the application of semantic code markup in order to gain an understanding of the separation of content and form in dynamic media. Alternate forms of scripting for the web and interaction with databases will also be introduced.

GRA 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
GRA 4930C  Special Topics in Digital Media Design
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ART 2602C
This course focuses on the refinement of student's problem-solving abilities through the advanced application of the design process. Students will work to gain control over the interaction of perceptual and conceptual compositional elements to enhance visual communication skills. Students research and analyze topical subjects to create works of visual communication as they explore the role of graphic design in visual culture.
GRA 4940L  Internship in Graphic Design
1-3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: ART 3618C AND GRA 2208C

On an "as available" basis, Graphic Design majors may request an internship by submitting written proposals to their advisor. Proposals must be approved by the advisor and sponsor. Junior or Senior status, 2.5 GPA overall, and a 3.0 GPA in Graphic Design is required. All internships include report on internship experience, including weekly journals, written reports and an oral presentation to department advisor. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

GRA 4950C  Graphic Design Portfolio
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GRA 2208C AND GRA 3102C AND GRA 3112C

This course focuses on the development and execution of a graphic design and digital medial portfolio. Emphasis will be placed on printed and digital portfolios, including an online format. Topics include creation of personal business packet and self-promotion pieces. Interview and job search skills will be discussed and developed. Individual assignments will be given to strengthen and round out each portfolio.

GRE-Class Greek (Lang Study) Courses

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

HFT-Hospitality Management Courses

HFT 2000  Introduction to the Hospitality Industry
3 sh (may not be repeated for credit)
Introduce students to management career options within the hospitality industry; which include lodging, food & beverage, meetings & conventions, recreation & leisure, gaming entertainment, cruising, clubs, and transportation. The importance of leadership and service culture are also discussed.

HFT 3053  Travel and Tourism Management
3 sh (may not be repeated for credit)
Students study the organizations and techniques involved in developing and promoting a destination. The course highlights the importance of teamwork between the public and private sectors in tourism related activities. Cross-disciplinary examination of the many facets of travel and tourism management are also explored.

HFT 3214  Hospitality Safety, Sanitation and Risk Management
3 sh (may not be repeated for credit)
Students study safety and sanitation management principles in the hospitality industry related to safe food handling practices, responsible alcohol service, and developing and maintaining a sustainable facility for hospitality guests and employees. Students may obtain NRA ServSafe Food Safety and ServSafe Alcohol certifications, as well as the AHLA Risk Management Certification.

HFT 3221  Human Resources in the Hospitality Industry
3 sh (may not be repeated for credit)
Prerequisite: HFT 3053*

Introduction to human resource management in the hospitality industries with emphasis placed upon motivation and training. Guest satisfaction is dependent upon employee satisfaction; therefore, strategies are explored to combat the high turnover which characterizes hospitality fields.

HFT 3271  Spa Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000

An examination of today's spa industry, spa careers, spa director's perspective, quality of spa experience, industry trends and future directions. Students will learn best practices that have proven successful in the spa industry. Major treatments/services are reviewed: facial therapies, massage therapies, water therapies, face and body services, salon services, exercise, personal training, etc. In addition to operations, the functional areas of marketing, human resources, and financial management are discussed within the context of spas.

HFT 3333  Contemporary Club Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000

Introduction to the world of private club management, including club governance, service excellence, organizational structure, human resources, quality management systems for clubs, government regulations, club marketing, food and beverage operations, computer technology for clubs, golf operations in clubs, club fitness operations, and club facilities management. Students learn how to incorporate sustainability practices in club management.

HFT 3414  Managing Front Office Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3053

Students will learn a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and account settlement. Various elements of effective front office management will be examined, paying particular attention to the planning and evaluation of front office operations and to human resources management. Front office procedures and management are discussed within the context of the overall operation of a hotel.

HFT 3444  Global Citizenship in Hospitality and Tourism
3 sh (may not be repeated for credit)

This course will serve as an exploration for students who are interested in global travel, global careers, and overall understanding of global citizenship while traveling. Students will research and become aware of how to contribute in global culture, communities, education, and within hospitality organizations. This course will foster an understanding of hospitality and tourism from the global lens which will promote cross-cultural communications.

HFT 3745  Innovative Technologies for Hospitality & Tourism
3 sh (may not be repeated for credit)

An introduction to innovative technologies utilized in the global hospitality and tourism industry. Students will explore guest room technologies, virtual reality, self-service kiosks, e-commerce, global distribution systems, social media, and cybersecurity as tools that influence multicultural hospitality and tourism in worldwide businesses. Discussion will focus on how to gain competitive advantage within casinos, resorts, restaurants, events, and destination management organizations via technology.
HFT 3814C Management of Food and Beverage Operations
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3053*
Provides the foundation for understanding the various challenges and responsibilities involved in food and beverage management. Students will examine the formulation, implementation, and evaluation of food and beverage organizations and apply the conceptual frameworks to specific situations. All aspects of food and beverage operations are covered including organization, marketing, menus, costs and pricing, production, service, safety, and finances.

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

HFT 3932 The Disney Semester: Experiential Learning in the Hospitality Industry
3-12 sh (may not be repeated for credit)
For students who have been accepted into the Walt Disney World College Program. Students will participate in classroom education (maximum of 4 classes - 3 credit hours / class) at Walt Disney World in Orlando, Florida. Permission is required.

HFT 3941 Field Study in Hospitality, Recreation and Resort Management
3 sh (may not be repeated for credit)
Students work in a hospitality, recreation or resort-related organization under the supervision of an agency representative and a faculty advisor. Skills, knowledge and values are developed on-the-job in entry level service industry positions; total of 300 work hours. Permission is required.

HFT 4106 Global Hospitality and Tourism Shared Economies
3 sh (may not be repeated for credit)
Prerequisite: HFT 4426 AND HFT 4503
This course offers the study of unconventional economic and social activities involving peer-to-peer based sharing of access to goods and services through transactions occurring mainly online, known as "Shared or Access Economies." It will focus on how these are directly affecting the global hospitality and tourism industry. Students experience the different hospitality-related shared economies, infrastructures, and impacts on the present and future of our industry. Resources utilized will include case studies, research, and course materials that expand on the topic, specifically focusing on Access Economies. Senior status is required. Restricted to BSBA majors. Offered concurrently with HMG5XX1; graduate students will be assigned additional work.

HFT 4274 Condominium and Vacation Interval Ownership
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
A comprehensive study of timeshare and vacation ownership of condominium properties. Legal structures, projects budgeting, marketing, sales and property management. Students are introduced to the fastest growing segment of the lodging industry. Differences between traditional and non-traditional lodging operations are examined.

HFT 4277 Resort Operations and Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 3414 AND HFT 3814C
Complete approach to the operation of resort properties from a department manager's perspective. Beginning with historical development, details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of resort business. The future and the impact of the condominium concept, time-sharing, technological change, and increased cost of energy and transportation, are also discussed.

HFT 4295 Strategic Leadership in Hospitality Management
3 sh (may not be repeated for credit)
Prerequisite: GEB 3213 AND HFT 3221 AND HFT 4277 AND HFT 4426 AND MAN 3025 AND MAN 3240 AND MAR 3023
Strategic management case approach is used to solve realistic problems by drawing upon all previous course concepts while developing leadership skills. In depth analysis of hospitality and tourism organizations dealing with strategic planning, leadership, management, budgeting, records and reports, risk management, staff organization, and coordination of resources.

HFT 4343 Planning and Design for the Hospitality Industry
3 sh (may not be repeated for credit)
Prerequisite: HFT 3414 AND HFT 3814C
Examination of the fundamental concepts, the specific principles, and the process of planning and designing hospitality, recreation and resort facilities; including visitor attractions. Students work individually and in teams to design facilities which fulfill travel/recreation expectations; operate graciously in the community; and function efficiently to realize profit.

HFT 4426 Hospitality Financial Analysis & Revenue Optimization
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND HFT 3053
Specialized accounting techniques applicable to the hospitality industry; interpret hospitality financial statements, capital investment decision making, financial instruments and concepts; survey of revenue management and analytics related tactics, issues, and trends in the hospitality industry. Perishable inventory with variable demand necessitates effective revenue management to realize the tourism and hospitality mechanism of revenue optimization. Participation in this course will afford students the opportunity to identify and exploit the core elements of revenue management, namely forecasting, controls (pricing and allocation/optimization decisions) and monitoring. This course aims for students to establish a reasonable level of relevant analytical/technical proficiency in each one of these core revenue management elements. Within the broader area of pricing theory, additional emphasis is placed on overbooking, consumer behavior, distribution channel management, and market segmentation. Utilizing STR hospitality metrics, students will develop hotel analytical skills and the opportunity to receive the Certification in Hotel Industry Analytics (CHIA). Upper level status is required. Offered concurrently with HMG 5466; graduate students will be assigned additional work.
HFT 4462  Revenue Management for Hospitality Business
3 sh (may not be repeated for credit)
Prerequisite: HFT 3414 AND HFT 3814C AND HFT 4426 AND MAN 3025
This course is designed to provide the students with an applied understanding of the strategies and tactics used in hospitality revenue management. The fundamental principles and concepts of revenue management including capacity management, duration control, demand and revenue forecasting, discounting, overbooking practices, displacement analysis, rate management and sales mix analysis will be discussed throughout the term. The course will also examine best pricing strategies that increase revenue during seasonal low periods and maximize revenues during high demand seasons. Senior status required.

HFT 4481  Advanced Revenue Management and Predictive Analytics in Hospitality
3 sh (may not be repeated for credit)
Prerequisite: HFT 4426 AND HFT 4462 AND HFT 4503 AND MAN 4720*
Exploration of revenue management, big data, and predictive analytics within the hospitality industry from a comprehensive perspective as it pertains to the importance of generating business revenues and contributions to the overall service-firm’s value proposition and financial performance. Students will identify the direct link between big data and hospitality and learn how to incorporate analytics into strategic management initiatives. Students will learn which data types are critical, how to identify productive data sources, and how to integrate analytics into multiple business processes to create an overall analytic culture that turns information into insight. This course will serve as the Global Hospitality and Tourism BSBA capstone. Senior status is required. Restricted to BSBA majors.

HFT 4503  Service Experience Marketing for Hospitality Management
3 sh (may not be repeated for credit)
Examine significant issues facing hospitality and tourism service providers and the successful implementation of a customer focus in service-based businesses. Course includes an overview of services marketing; understanding the customer; standardizing and aligning the delivery of services; the people who deliver and perform services; managing demand and capacity; and promotion and pricing strategies in hospitality and tourism marketing. Upper level status is required. Offered concurrently with HMG 5506; graduate students will be assigned additional work.

HFT 4536  Hospitality Innovation and Brand Design
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3053 AND HFT 3221 AND HFT 3414 AND HFT 3814C AND MAN 3025 AND MAR 3023
Hospitality industry organizations connote instantaneous images, associations, and expectations. Innovative brands indeed play an imperative role on the 21st century consumer, driving loyalty and business by aligning with the customer’s perception of oneself. This course explores the power of brands across the hospitality industry on guests, associates, and management alike, with special emphasis on the translation of brand aspirations to design and experience creation, delivery to guests, and the future role of a brand in general. Initial investigations explore the components of a brand, from its mission and positioning, to defining target and aspirational audiences. Students will assess the ideas behind rendering big-picture values into sophisticated experiences for guests at engineered moments, as well as the business of hospitality design, brand administration, and standards and compliance. Senior status is required.

HFT 4753  Special Event Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000
Convention facilities, convention and visitors bureaus, sponsors, host venues, stakeholders, tradeshow and meeting management are examined. Analysis of the methods and techniques of event design, organization, implementation, and evaluation. Legal issues and trends are studied. The economic impact of the special events business upon destinations is studied.

HFT 4799  Hospitality and Tourism Guest Experience Management
3 sh (may not be repeated for credit)
Prerequisite: HFT 4503 AND HFT 4536
This capstone course for the Global Hospitality and Tourism BS degree allows students to study the design and management of services in the hospitality industry by focusing specifically on the guest experience, the interactions between the guest and the service deliverer, the guest perceptions of service, measuring and tracking quality assurance, and the best practices involved in the creation of an engaging and personalized guest experience. It provides the practical tools for evaluating the experiences provided to the guest in a service-based framework. Senior status is required.

HFT 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
HFT 4940  Internship in Hospitality Management
1-3 sh (may be repeated for up to 3 sh of credit)
Prerequisite: HFT 2000
Students are required to work 800 paid hours in a hospitality industry position. Students work in a hospitality, recreation or resort related organization and have the opportunity to put theory into practice through active participation. Students are supervised by a management-level agency employee as well as by a faculty advisor. Permission is required to enroll.
HFT 4945  Global Leadership Development I: Industry Foundations
1 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023 AND
FIN 3403* AND HFT 3414 AND HFT 3814C AND MAR 3023*
This course is designed to create a foundation for future hospitality
managers by allowing students the opportunity to participate in an
experiential learning environment where they will analyze, discuss,
and problem-solve current industry-related issues. Students will also
interact and network with industry professionals. To enroll in GLD I:
Industry Foundations, students must have completed or secured 200
hours in an approved position. Department permission and Junior or
Senior classification are required.

HFT 4946  Global Leadership Development II: Cross-Functional
Training
1 sh (may not be repeated for credit)
Prerequisite: HFT 4426* AND HFT 4945
This course is designed to create a foundation for future hospitality
managers by allowing students the opportunity to participate in an
experiential learning environment where they will analyze, discuss,
and problem-solve current industry-related issues. Students will also
interact and network with industry professionals. To enroll in GLD II:
Cross-Functional Training, students must secure an approved position
in an industry-related organization and complete a minimum of 300
hours during the semester. Department permission is required to
enroll.

HFT 4947  Global Leadership Development III: Insights into
Management
1 sh (may not be repeated for credit)
Prerequisite: HFT 4946
This course is designed to create a foundation for future hospitality
managers by allowing students the opportunity to participate in an
experiential learning environment where they will analyze, discuss,
and problem-solve current industry-related issues. Students will also
interact and network with industry professionals. To enroll in GLD III:
Insights into Management, students must have secured an approved
position in an industry-related organization and complete a minimum of 300
hours during the semester. Department permission is required to
enroll.

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

HIS-Gen History Historiograp Courses

HIS 3002  The Historian's Craft
3 sh (may not be repeated for credit)
Intensive experience in historical research and writing, methodology,
and interpretations. Required for all history majors. Permission is
required.

HIS 3313  Issues in Gender and Diversity
3 sh (may not be repeated for credit)
Provides an interdisciplinary introduction to the theoretical and social
issues regarding diverse groups and gender stereotypes. Focuses on
how gender and diversity fit into the actions and interactions of the
private and public sectors, and presents information on how to
effectively promote institutions, relationships, politics, and services that
value diversity and eliminate gender stereotypes.
HIS 4251  Route 66 to the Atomic West
3 sh (may not be repeated for credit)
This course will provide students with an unparalleled opportunity to develop an in-depth understanding of Western Cold War, urban, and cultural history. This will include both in-class instruction as well as an inclusive twenty-seven day tour throughout the American West. During the first half of the summer, at the University of West Florida, the students will engage in lectures, discussions, and exercises, complete a series of comprehensive readings and topical research assignments, and prepare a series of podcasts on locations throughout the Atomic West. Throughout the month of July, for twenty seven days, the class will travel throughout eleven states and engage in presentations, tours, site-visits, and other activities. During this time, students will photograph, record, and document their findings and experiences. Through this process, students will gain an extensive and profound understanding of the course material as well as the locations that are part of our national history. Throughout our travels, students will upload their professional-quality podcasts about their trip and insights on the Atomic West into the Next Exit History? system. Offered concurrently with HIS 5256; graduate students will have additional work.

HIS 4284  Maritime History
3 sh (may not be repeated for credit)
Survey of impact of oceans, rivers and other bodies of water upon the development of mankind. Focus on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

HIS 4316  Women in the Atlantic World
3 sh (may not be repeated for credit)
Examines the Atlantic World through the experiences of African, European, and American Women. Explores how women fit within the continuously evolving multicultural setting of the sixteenth, seventeenth, and eighteenth centuries. Meets Multicultural Requirement.

HIS 4354  Modern Military Leaders
3 sh (may not be repeated for credit)
Military leaders who have significantly affected various conflicts and pertinent developments in the modern age. Examines the prominent European and American military leaders and leadership skills from the age of religious conflicts in Europe through the Second World War. Encompasses the periods of absolutism, imperialism and colonialism, revolution and the emergence of democracy, and the rise of twentieth-century fascism.

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

HIS 4935  Senior Seminar
3 sh (may not be repeated for credit)
Prerequisite: HIS 3930
The Senior Seminar is the capstone experience for history majors. Students will work closely with the instructor to create a substantial and original research paper based on primary sources. This course requires the student to utilize a broad range of skills required of a historian. The seminar will conclude with a oral presentation.

HIS 4955  Overseas and Field Study in History
1-6 sh (may not be repeated for credit)
Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

HIS 5059  Methods I: The Historian's Craft
3 sh (may not be repeated for credit)
Even though history is the study of the past, recent developments have begun to revolutionize how historians access and analyze their sources. This course begins by discussing the development of the study and theory of history. We will then move forward to consider new approaches to history. From anthropological theory and material cultural to the use of digital archives, we will delve into the many different ways to access the past, including even popular history. Through the use of digital archives we will learn how to read the oldest sources through the art of paleography. All the while students will learn or review the basic skills of a historian as he/she begins to research a topic. Students will begin by choosing a research topic and then slowly create their research paper through the perusal of primary sources, historiographic essays, and scholarly reviews. By the end of the course students will possess a well-crafted research paper that will form the basis of future research at UWF and perhaps as future PhD students.

HIS 5063  Graduate Methods II: The Professional Historian
3 sh (may not be repeated for credit)
Prerequisite: HIS 5059
Graduates of history master's degree programs pursue a wide range of careers. This professional development seminar familiarizes students with many of these career opportunities. It also provides training in the practical, professional skills, habits, and modes of thought of working historians. Through hands-on workshops, panel discussions, guest speakers, and site visits, students will hone the skills historians commonly use in a variety of professional capacities. Students will develop a comprehensive professional portfolio, curate their professional online presence, present at an academic conference, and produce a publishable article based on their Methods I research paper.

HIS 5084  Issues in Historic Preservation
3 sh (may not be repeated for credit)
This course offers a general introduction to the history, practices, principles, and fields of historic preservation. Offered concurrently with HIS 4086; graduate students will be assigned additional work.

HIS 5087  Advanced Museology
3 sh (may not be repeated for credit)
Historical museum operation: philosophy, administration, ethics, and public responsibility.
This course will provide students with an unparalleled opportunity to develop an in-depth understanding of Western Cold War, urban, and cultural history. This will include both in-class instruction as well as an inclusive twenty-seven day tour throughout the American West. During the first half of the summer, at the University of West Florida, the students will engage in lectures, discussions, and exercises, complete a series of comprehensive readings and topical research assignments, and prepare a series of podcasts on locations throughout the Atomic West. Throughout the month of July, for twenty seven days, the class will travel throughout eleven states and engage in presentations, tours, site-visits, and other activities. During this time, students will photograph, record, and document their findings and experiences. Through this process, students will gain an extensive and profound understanding of the course material as well as the locations that are part of our national history. Throughout our travels, students will upload their professional-quality podcasts about their trip and insights on the atomic west into the Next Exit History? system. Offered concurrently with HIS 4251; graduate students will have additional work assigned.

**HIS 5256 Route 66 to the Atomic West**
3 sh (may not be repeated for credit)

This course will examine the military leaders who have significantly affected various conflicts and pertinent developments in the modern age.

**HIS 6285 Maritime History**
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 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 6050 Historic and Heritage Preservation Seminar**
3 sh (may not be repeated for credit)

Examines the evolution and theory of the historic preservation movement in the United States and the various methodologies associated with preservation and cultural resources management activities in the government and private sectors.

**HIS 6285 Maritime History**
3 sh (may not be repeated for credit)

Survey of impact of oceans, rivers, and other bodies of water upon the development of mankind. Focuses on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

**HIS 6356 Modern Military Leaders**
3 sh (may not be repeated for credit)

This course will examine the military leaders who have significantly affected various conflicts and pertinent developments in the modern age.

**HIS 6904 Directed Readings**
1-3 sh (may not be repeated for credit)

Permission is required.

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

**HIS 6911 Master's Research**
1-3 sh (may be repeated for up to 3 sh of credit)

Permission is required.

**HIS 6956 Advanced Overseas and Field Study in History**
1-6 sh (may not be repeated for credit)

Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

**HIS 6971 Thesis**
1-6 sh (may be repeated for up to 6 sh of credit)

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

### HLP-Health Leisure Phys Educ Courses

**HLP 2081 Health, Nutrition and Physical Fitness**
3 sh (may not be repeated for credit)

Principles of exercise and nutrition and their roles in maintenance of good health. Students will be given the opportunity to develop their individual aerobic fitness program. An introductory level course.

**HLP 3300 Organization and Administration of Professional Programs**
3 sh (may not be repeated for credit)

Analysis of leadership principles related to study of man and human performance related to health, leisure and sports activities.

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

**HLP 4722 Health/Physical Education for Elementary School Teachers**
3 sh (may not be repeated for credit)

Knowledge, attitudes and skills necessary for balanced programs of physical education and health education for grades K-8.

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

**HLP 4922 Field Experience**
1-3 sh (may not be repeated for credit)

Placement in an appropriate setting for the purpose of learning more about a specific field. Student will observe and participate in a wide range of activities as determined by instructor and agency supervisor. Graded on satisfactory / unsatisfactory basis only. Permission is required.

**HLP 4940 Internship**
1-6 sh (may not be repeated for credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.
HLP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

HLP 6535 Research Procedures
3 sh (may not be repeated for credit)

Research methodology, critical analyses and evaluation of current research, and design of a research proposal in the major field.

HLP 6595 Research Seminar
3 sh (may not be repeated for credit)

Development of a research design suitable for a thesis or research project in health, leisure or sports science.

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

HLP 6922 Field Experience
1-3 sh (may be repeated for up to 6 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 sh of credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HLP 6971 Thesis
1-6 sh (may be repeated for up to 6 sh of credit)

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

HMG 5296 Advanced Global Hospitality and Tourism Shared Economies
3 sh (may not be repeated for credit)

Prerequisite: HMG 5466 AND HMG 5506

This course offers the study of unconventional economic and social activities involving peer-to-peer based sharing of access to goods and services through transactions occurring mainly online, known as ‘Shared or Access Economies’. It will focus on how these are directly affecting the global hospitality and tourism industry. Students experiment the different aspects involved, its infrastructures, the drivers and the mechanisms that make it possible, and how it impacts the present and future of our industry, by going through real case studies, research and course materials, that expand on the topic, specifically focusing on Access Economies and their influence in the Hospitality and Tourism Industry. Offered concurrently with HFT 4106 Global Hospitality and Tourism Shared Economies; graduate students will be assigned additional work.
HMG 5466 Hospitality Financial Analysis & Revenue Optimization 
3 sh (may not be repeated for credit)

Specialized accounting techniques applicable to the hospitality industry; interpret hospitality financial statements, capital investment decision making, financial instruments and concepts; survey of revenue management and analytics related tactics, issues, and trends in the hospitality industry. Perishable inventory with variable demand necessitates effective revenue management to realize the tourism and hospitality mechanism of revenue optimization. Participation in this course will afford students the opportunity to identify and exploit the core elements of revenue management, namely forecasting, controls (pricing and allocation/optimization decisions) and monitoring. This course aims for students to establish a reasonable level of relevant analytical/technical proficiency in each one of these core revenue management elements. Within the broader area of pricing theory, additional emphasis is placed on overbooking, consumer behavior, distribution channel management, and market segmentation. Utilizing STR hospitality metrics, students will develop hotel analytical skills and the opportunity to receive the Certification in Hotel Industry Analytics (CHIA). Offered concurrently with HFT 4426; graduate students will be assigned additional work.

HMG 5506 Service Experience Marketing for Hospitality Management 
3 sh (may not be repeated for credit)

Examine significant issues facing hospitality and tourism service providers and the successful implementation of a customer focus in service-based businesses. Course includes an overview of services marketing; understanding the customer; standardizing and aligning the delivery of services; the people who deliver and perform services; managing demand and capacity; and promotion and pricing strategies in hospitality and tourism marketing. Offered concurrently with HFT 4503; graduate students will be assigned additional work.

HSA-Health Services Admin Courses

HSA 3111 Understanding U.S. Health Care 
3 sh (may not be repeated for credit)

This course provides an orientation to the characteristics and foundation of the U.S. Health Care system including a review of health professionals, technology, financing and reimbursement, delivery systems, vulnerable populations, process improvement, and health policy.

HSA 3140 Strategic Planning in Healthcare 
3 sh (may not be repeated for credit)

This course focuses on strategic management as it applies to health care organizations with special emphasis on strategic planning, analysis of the health services environment (both internal and external), marketing and implementation. Healthcare case studies are used to illustrate key concepts.

HSA 3170 Principles of Healthcare Finance 
3 sh (may not be repeated for credit)

This course provides students with an introduction to the fundamentals of health care finance as practiced in health services organizations. The course will enable students entering management positions to more readily become effective and efficient participants in the achievement of organizational goals. Reimbursement insurance and third-party payments are covered.

HSA 3551 Health Ethics and Professionalism 
3 sh (may not be repeated for credit)

This course includes an overview of ethical issues facing today?s health care practitioners in addressing clinical and administrative decision-making. This course will also focus on the importance of professionalism and effective communication skills in dealing with health care consumers and other medical professionals in the health care industry.

HSA 4002 Healthcare Administration 
3 sh (may not be repeated for credit)

This course provides students with an overview of concepts and issues related to healthcare administration in a variety of healthcare settings, such as hospitals, nursing homes, clinics and others. Emphasis is placed on important issues such as ethics, controlling costs, strategic planning and marketing, information technology, and personnel administration.

HSA 4110 Health Care Policy and Administration 
3 sh (may not be repeated for credit)

Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 5115; graduate students will be assigned additional work.

HSA 4191 Health Information Systems 
3 sh (may not be repeated for credit)

Provides an overview of the multifaceted, interdisciplinary nature of health (medical) informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Credit may not be received in both HSA 4192 and HSA 4190. This course was formally known as Introduction to Medical Informatics.

HSA 4192 Current Topics in Health Informatics 
3 sh (may not be repeated for credit)

Provides an overview of the multifaceted, interdisciplinary nature of health (medical) informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Credit may not be received in both HSA 4192 and HSA 4190. This course was formally known as Introduction to Medical Informatics.

HSA 4193 Electronic Clinical Record Systems 
3 sh (may not be repeated for credit)

Explores the use and evaluation of commercially available electronic medical record systems. Health care workflow issues will be addressed in the context of impacts of billing, collections, HIPAA, and scheduling in a health care practice. Offered concurrently with HSA 5198; graduate students will be assigned additional work.

HSA 4340 Personnel Administration in Healthcare 
3 sh (may not be repeated for credit)

This course focuses on the fundamental concepts and practical tools necessary for maximizing employee performance in healthcare organizations with special emphasis on the complex factors that influence the performance of this unique workforce in a dynamic industry.
HSA 4383  Quality Improvement in Healthcare
3 sh (may not be repeated for credit)
This course provides students with an introduction to the underlying principles and the fundamentals of quality management and improvement in the delivery of healthcare. An emphasis is placed on literacy and awareness of the concepts, topics and practices needed to address quality improvement challenges in complex healthcare systems.

HSA 4394  Advanced Topics in Healthcare Information Technology
3 sh (may not be repeated for credit)
This online course serves as an introduction to health information technology. This course provides a basic overview of computer architecture; data organization, representation and structure; and the fundamentals of data communication. This course also covers a large breadth of terminology used in the computer industry. Offered concurrently with HSA 4396. Graduate students will be assigned additional work.

HSA 4430  Health Economics
3 sh (may not be repeated for credit)
Provides instruction in economic theories, tools and concepts and their application to current health care issues.

HSA 4431  Business Analysis and Decision Making in Health Care
3 sh (may not be repeated for credit)
Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 5438; graduate students will be assigned additional work.

HSA 4703  Coordinating Clinical Trials
3 sh (may not be repeated for credit)
This course provides an overview of clinical trial operations for learners of any academic field. Subject matter focuses on the history and regulatory guidance surrounding human subjects in drug trials, including current standards of Good Clinical Practices (GCP). Course emphasizes administrative functions required in real-world clinical research, such as informed consent, protocol review, study documentation, and research staff roles and responsibilities. Course also covers the storage, shipment, and safety issues concerning pharmaceutical drugs and biologic materials. Students participate in a virtual Mock Study? to demonstrate comprehension of course materials and ability to work as a clinical team.

HSA 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
HSA 4941  Internship
3 sh (may be repeated for up to 6 sh of credit)
This internship experience will provide students with hands-on experience in the health industry and exposure to key elements in this environment. Emphasis will be placed on effective professional communication, career development, and preparation of the student for the workforce.

HSA 5115  Health Care Policy and Administration
3 sh (may not be repeated for credit)
Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 4110; graduate students will be assigned additional work.

HSA 5196  Advanced Topics in Healthcare Information Technology
3 sh (may not be repeated for credit)
This online course serves as an introduction to health information technology. This course provides a basic overview of computer architecture; data organization, representation and structure; and the fundamentals of data communication. This course also covers a large breadth of terminology used in the computer industry. Offered concurrently with HSA 4394. Graduate students will be assigned additional work.

HSA 5198  Electronic Clinical Record Systems
3 sh (may not be repeated for credit)
Explores the use and evaluation of a commercially available electronic medical records system. Health care workflow issues will be addressed in the context of impacts on billing, collections, HIPAA and scheduling in a health care practice. Working knowledge of personal computers, including knowledge of word-processing, spreadsheet packages, and Internet searching. Offered concurrently with HSA 4192; graduate students will be assigned additional work.

HSA 5438  Business Analysis and Decision Making in Health Care
3 sh (may not be repeated for credit)
Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 4431; graduate students will be assigned additional work.

HSA 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
HSA 6103  Health Services Administration
3 sh (may not be repeated for credit)
This course will introduce essential concepts and developing trends in health services administration which are applicable in professional practice and provide a baseline for further study.

HSA 6175  Healthcare Finance
3 sh (may not be repeated for credit)
This course focuses on the application of finance theory, principles, and concepts to healthcare organizations. Topics covered also include the healthcare environment, long term financing, and capital investment decisions in the healthcare industry.

HSA 6197  Health Informatics
3 sh (may not be repeated for credit)
This course discusses the multifaceted, interdisciplinary nature of health informatics. Topics covered include: computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered.

HSA 6342  Human Resources in Health Care
3 sh (may not be repeated for credit)
Introduces graduate students to the management of human resources specifically within health care organizations. The course focuses on skills required to become an effective manager and gain knowledge of fundamental human resource management topics: strategic HR management; workforce planning; legal environment of HR management; workforce diversity; job analysis and job design; recruitment, selection, and retention; organizational development and training; compensation and benefits; health safety and preparedness; and employee and labor-management relations.
HSA 6425  Healthcare Law  
3 sh (may not be repeated for credit)  
An overview of the laws most affecting the provision of healthcare. Course addresses the government regulation of healthcare, liability, provider duties, professional licensing, licensing enforcement, health records, false claims, fraud and abuse, health ethics, informed consent, negligence, and the legal basis for hospital governance.

HSA 6436  Health Economics  
3 sh (may not be repeated for credit)  
This course covers the role of prices, the production of health, the demand for healthcare, the demand for health insurance, the health insurance market, managed care, physicians' services market, cost of healthcare in hospitals and long term care facilities, pharmaceuticals, cost effectiveness analysis, role of government, international comparisons, Medicaid and Medicare, and insurance reform.

HSA 6521  Critical Analysis of Health  
3 sh (may not be repeated for credit)  
Analysis of research being conducted on causes of illness and death in the United States and other countries. Credit may not be received in both HSA 6521 and HSA 6106.

HSA 6707  Current Issues in Health Administration  
3 sh (may not be repeated for credit)  
Students will examine current issues in the dynamic field of healthcare and the implications for healthcare administrators and other health professionals. Topics include outpatient services and primary care; hospital facilities; managed care; long term care; healthcare concerns in vulnerable populations; cost, access and quality of healthcare; healthcare policy; and future of health services delivery in the US.

HSA 6752  Quantitative Foundations and Data Analysis for Health Admin  
3 sh (may not be repeated for credit)  
This course will introduce the methods for description and analysis which provide healthcare professionals with useful tools for making sense from data. The course will cover how healthcare data is dependent on analysis, categorization, and management.

HSA 6944  Internship in Health Administration  
3 sh (may not be repeated for credit)  
An internship in a healthcare setting. Under supervision, students will work on a problem related to management, development or administration in healthcare. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

HSC-Health Science Courses

HSC 2100  Personal Health  
3 sh (may not be repeated for credit)  
Provides information on personal health issues from which students may base current and future decisions regarding their health and wellness. To promote an environment where effective decision making skills can be acquired through structured group interaction.

HSC 2130  Sex & Booze: A Peer Health Education Course  
3 sh (may not be repeated for credit)  
Educates and trains students in assessing college life health issues and experiences among peers utilizing an active learning approach in order to educate college students on issues such as peer education, leadership, alcohol misuse/abuse prevention, sexual assault prevention, healthy relationships, and sexual health responsibility. Participation in the course will equip students with vital knowledge and skills needed for their experience as, and interactions with, college students. Students should also expand their abilities for developing and providing useful presentations and expertise in offering feedback and resources for issues affecting UWF peers. The material will help to build a team environment and leadership skills.

HSC 2577  Principles of Nutrition  
3 sh (may not be repeated for credit)  
The fundamentals of nutrition are explored, emphasizing the biochemical and physiological mechanisms of digestion, absorption, metabolic pathways, energy requirements, and nutritional status. It provides students with an understanding of nutrients and their roles in the body while examining current issues in food science. An emphasis is placed on promotion of growth and health by examining weight control, disease prevention, food safety, and planning a healthy diet.

HSC 2622  Introduction to Global Health Sciences  
3 sh (may not be repeated for credit)  
This health sciences course considers the influence of factors such as access to healthcare, biology, infectious diseases, societal status, culture, the environment, and the management of healthcare resources, on the well-being of people around the globe. The course will also examine the role of equity, social justice, and ethics in healthcare. Case studies demonstrating how various actors have cooperated across national borders to solve problems like pandemics, healthcare access challenges and disease eradication will be analyzed. Students will integrate ideas from different disciplines to identify problems affecting society in the international context. Meets Multicultural Requirement.

HSC 3032  Foundations in Health Education  
3 sh (may not be repeated for credit)  
Explores the philosophy and principles that provide the foundations of health education as an academic discipline and as a profession. Emphasis will focus on health education in our society, theoretical basis, settings, ethical issues, current issues, marketing, planning and future outlook in the field.

HSC 3034  Current Issues in the Health Sciences  
3 sh (may not be repeated for credit)  
Introduces the student to current regional, state, national and international trends and issues in the health sciences. This course will provide an overview of the field of health sciences and numerous healthcare related topics.

HSC 3147  Pharmacology for Health Professionals  
3 sh (may not be repeated for credit)  
This course will focus on the general principles of drug action and pharmacology of therapeutic agents. The general principles of pharmacology, including drug absorption, distribution and metabolism along with receptor theory will be covered. The course will also focus on mechanism of action of specific drug classes and their effective use in different diseases.
HSC 3406C  Advanced First Aid and Emergency Care
3 sh (may not be repeated for credit)
Study and practice of standard first aid procedures which are essential for survival in emergency and disastrous situations. Cardiopulmonary resuscitation method will be included. Red Cross certification will be available to students who meet current standards. Material and supply fee will be assessed.

HSC 3510  Data Analysis in the Health Sciences
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
This course focuses on the application of computer technology and software in conducting analysis of data, including how to retrieve, clean, organize, and analyze data using computational methods, as well as report findings using existing general purpose software. Additionally, students will acquire skills in data presentation through using tables, charts, and written reports. All students must complete STA 2023 or equivalent prior to taking HSC 3510.

HSC 3535  Medical Terminology
3 sh (may not be repeated for credit)
This course is designed to familiarize students with the vocabulary used in the medical and health professions. Students will employ a systematic, word-building approach to master the complex terminology of the medical field. An emphasis is placed on word dissection of compound medical terms and inferring word meanings from their prefixes, suffixes, and stem words. Credit may not be received in both HSC 3535 and HSC 3534.

HSC 3555  Pathophysiology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 1085 AND BSC 1086) OR PCB 4703 OR PCB 3097/L OR PCB 4098/L
Disease as an abnormal biological process. Selected physiological processes and basic concepts of body response to pathology will be explored. Approach appropriate to students of nursing, allied health, medicine, and biology. Recommended prerequisite; one course in anatomy and physiology.

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

HSC 4050  Health Sciences Research Seminar
3 sh (may not be repeated for credit)
This capstone course will focus on contemporary research in the health sciences. The course will cover topics such as the scientific method, research study designs, critical evaluation of the literature, technical writing, research ethics, data collection, and analysis. As part of an ongoing semester project, students will design a research proposal on a specific topic in health. A capstone exam will be given.

HSC 4104  Health Aspects of Stress Management
3 sh (may not be repeated for credit)
A study of physiological, psychological, and sociological aspects of stress as related to overall health. Anger, fear, and depression and their underlying mechanisms related to the stress response on health and disease will be examined. Emphasis is on identification of stressors, methods of prevention and coping strategies. Group activities and individual assignments provide opportunities for personal analysis.

HSC 4120  Consumer Health Education
3 sh (may not be repeated for credit)
Enables students to make intelligent decisions about the health care marketplace. Basic information regarding health care products, services and consumer protection will be of central focus.

HSC 4133  Health Aspects of Human Sexuality
3 sh (may not be repeated for credit)
A study of physical, mental, emotional, social, and psychological phases of human sexuality as they are affected by male and female relationships. Emphasize a holistic perspective on sexuality. Lectures by the instructor and experts from the community will provide an overview of the major issues in sexuality. Assigned readings will provide detailed information. Group activities and individual assignments will provide opportunities for personal analysis and growth with regard to a wide variety of topics.

HSC 4143  Drugs in Society
3 sh (may not be repeated for credit)
Provides students with knowledge of the use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug use and abuse on personal and community health. Concepts of prevention, education and control will be covered. Material and Supply Fee will be assessed.

HSC 4211  Human Environmental Health
3 sh (may not be repeated for credit)
An online course with an overview of major environmental issues facing society at the dawn of the 21st century. Ecological concerns will be matched with specific elements related to personal and community health, emphasizing the interrelatedness of the two and conveying an awareness of how current environmental issues directly affect your own life.

HSC 4300  Changing Health Behaviors
3 sh (may not be repeated for credit)
Designed to acquaint students with a general theory of behavior, guide them through exercises for developing skills in self-analysis, and to provide information on how to achieve individual behavior change goals. Students will learn techniques for developing community-based health behavior change programs and employ coping skills for personal problem solving.

HSC 4404  Medical Disaster Management
3 sh (may not be repeated for credit)
Introduces students to facets of natural and technological disasters while integrating public health research designs and practices. Class lectures and discussions utilize recent and historical case studies as a basis for developing the critical thinking and leadership skills needed by healthcare professionals in crisis situations. International, domestic, and regional settings are addressed, as well as the social, economic, and political aspects of disaster planning, preparedness, and mitigation. Basic public health concepts and methodologies as they relate to course material. Permission is required.

HSC 4405  Epidemiology
3 sh (may not be repeated for credit)
A study of the factors determining and influencing the frequency, distribution, and causes of diseases and other events that impact the health and safety of the human population. Programs and strategies to prevent and control such events and diseases will be explored.
HSC 4502  Principles of Human Disease
3 sh (may not be repeated for credit)
Prerequisite: PCB 4703 OR (BSC 1085 AND BSC 1086) OR (BSC 2085 AND BSC 2086) OR PCB 4098
The course introduces students to the mechanisms of human disease, disease etiology, symptoms, diagnosis, treatments, prognosis and epidemiology. Diseases and disorders of each of the body's systems will be covered. Special attention will be paid to disease prevention.

HSC 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)
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, psychology, or biology are highly recommended. Material and Supply Fee will be assessed.

HSC 4581  Health Promotion and Planning
3 sh (may not be repeated for credit)
Practical application of theory, models, principles, and practices of health promotion, planning, and implementation. Experiential activity includes creating a health promotion program incorporating developing and administering a needs assessment, applying a behavioral and environmental assessment, writing goals and measurable objectives, marketing the program, presenting the health program, evaluating the program.

HSC 4583  Theoretical Foundations of Health Promotion and Planning
3 sh (may not be repeated for credit)
A comprehensive overview and analysis of theory, models, principles, and practices of health education and promotion planning and implementation. Topics for discussion include health promotion and a framework for planning, social assessment and participatory planning, epidemiological assessment, behavioral and environmental assessment, educational and ecological assessment, administrative and policy assessment, evaluation and applications in community, occupational, school, and health care settings.

HSC 4584  Health Promotion Strategies and Funding
3 sh (may not be repeated for credit)
This course will explore, develop, analyze, and apply strategies to promote health in communities. Emphasis will be placed on community organization, coalition building, curriculum development, communication theory and technology, social marketing, mass media and ecological models. Students will conduct critical analysis of interventions that implement each strategy through systematic analysis of public health literature. Grant funding strategies will be addressed.

HSC 4589  Research Methods and Evaluation in Health Promotion
3 sh (may not be repeated for credit)
A comprehensive analysis and application of research methods and evaluation for health education and promotion practices. Students will establish or advance their understanding of research and evaluation in health promotion through critical exploration of terminology, ethical considerations, and methodology. Quantitative, qualitative, and mixed research methods will be explored and applied. Students will be provided with opportunities for practical application of evaluation design and implementation. Data will be analyzed, interpreted, and presented paralleling current health promotion professional practices.

HSC 4595  Directed Study
1-12 sh (may be repeated indefinitely for credit)
HSC 4910  Senior Capstone Experience in Health Promotion
1-6 sh (may not be repeated for credit)
Prerequisite: HSC 4581
This capstone experience for Health Promotion majors provides opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in a health promotion. Departmental permission will be required.

HSC 4940  Internship
1-6 sh (may not be repeated for credit)
Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HSC 5205  Public Health Preparedness
3 sh (may not be repeated for credit)
Introduces types of disasters, the national incident management system and its role in disaster planning, prevention, and mitigation. The structure and organization of medical disaster response, exercises, emergency communication, rapid health assessment, surveillance, and triage. Introduces the public health role in responding to chemical, biological, disease, radiological, nuclear, and explosive incidents. Also covers social/mental health, environmental services, ethical, and legal issues in disasters. Introduces evaluation methods for assessing the medical and public health responses.
HSC 5506  Advanced Epidemiology
3 sh (may not be repeated for credit)
Examines the use of epidemiological procedures as they apply to community health planning. Emphasis is placed on the application of epidemiological concepts in determining the effectiveness of current and potential medical and public health interventions.

HSC 5552  Communicable and Degenerative Diseases
3 sh (may not be repeated for credit)
Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 4551; graduate students are assigned additional work. Upper division or graduate status is required.

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

HSC 6037  Philosophical Foundations of Health Education
3 sh (may not be repeated for credit)
High-order philosophical, ethical, and theoretical foundations of the professional practice of health education are explored. Students will be expected to develop their own philosophical, ethical and theoretical approach(es) to the field after becoming familiar with the peer-reviewed literature related to the health education.

HSC 6135  Health Guidance and Cultural Competency
3 sh (may not be repeated for credit)
The course examines the roles of health educators, health administrators, and other health professionals in providing culturally competent health guidance to consumers of health care. The course provides insight into the history of health care, examination of the culture’s role in health and healing, current issues, and challenges facing health care in contemporary society. Students will be challenged to integrate research and theory of health communication as they apply concepts related to health communication and cultural competency.

HSC 6206  Health Delivery Systems
3 sh (may not be repeated for credit)
This course explores health care delivery in the United States. Examines health care systems in other countries along with covering topics including American beliefs and values related to health care delivery, evolution of health services in the United States, health service professions, influence of medical technology, and the financing of health services.

HSC 6226  Current Issues in Worksite Wellness
3 sh (may not be repeated for credit)
Foundational course for developing, implementing, and evaluating Worksite Health Promotion (WHP) programs. Current issues related to worksite wellness and health promotion will be discussed and reviewed in detail. Topics include: history of WHP; the health/productivity/cost link; and WHP program framework. Worksite employee issues will be explored including: employee health needs, employee health interests, employee health interests, and accessing employee data. Worksite program goals, policy, implementation, participation generation, and evaluation will be analyzed. Management hierarchy and organizational values will be assessed in relation to building a healthy worksite environment. Funding and resource considerations will be evaluated.

HSC 6528  Prevention of Infectious Diseases
3 sh (may not be repeated for credit)
An overview graduate level course of the methods and strategies for the prevention and control of infectious diseases within a population setting and the application of these tools in public health programs to achieve an epidemiologic impact on disease reduction, elimination or eradication. Methods covered in the course are those applied to population settings and address both vaccine and non-vaccine preventable diseases of public health significance.

HSC 6576  Nutrition Across the Life Cycle
3 sh (may not be repeated for credit)
Nutritional health needs across the life cycle, from preconception to later years are covered. Course emphasizes the critical analysis of each stage of life on nutrition intake, how to meet nutritional needs, and the impact of SES, psychological, and physiological factors on food intake, nutritional status and well being.

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)
This course prepares graduate students in health education/promotion with the knowledge, abilities, and skills to improve the effectiveness of community-based health behavior change strategies utilizing interactive technologies (e.g., Internet, mobile phones, text messaging, virtual reality, & avatars) and social media strategies. These ever-changing technologies and social media platforms provide innovative approaches for health education/promotion professionals to develop, implement, and evaluate theory-based health promotion interventions within community settings.

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 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
HSC 7609    Advanced Theories of Health Behavior
3 sh (may not be repeated for credit)
This course provides an in-depth examination of the psychosocial and behavioral science theories and frameworks related to the study of health behavior. An ecological approach will be used to examine theories at multiple levels of social ecology, focusing on applications that influence translational health and physical activity research.

HUM-Humanities Courses

HUM 4911    Interdisciplinary Humanities Capstone
3 sh (may not be repeated for credit)
Designed so the student may integrate and reflect on his or her undergraduate program of study. Internship or research project is closely coordinated with the student's advisor. Purpose is to provide connection, coherence, and closure to one's major course of study. Permission is required.

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

HUN-Human Nutrition Courses

HUN 2201    Fundamentals of Human Nutrition
3 sh (may not be repeated for credit)
This course explores the fundamentals of nutrition with emphases on the biochemical and physiological mechanisms of digestion, absorption, metabolic pathways, energy requirements, and nutritional status. It provides students with an understanding of nutrients and their roles in the body while examining current issues in food science. In addition, emphases are placed on a promotion of growth and health by examining weight control, disease prevention, food safety, and planning a healthy diet.

IDH-Interdisciplinary Honors Courses

IDH 1040    Honors Core 1
3 sh (may not be repeated for credit)
Honors Core 1 and Honors Core 2 establish the foundation of the academic experience unique to the Honors program at the University of West Florida. Honors Core 1 focuses on the formulation of the self as it appears in our central literary heritage and examines the overarching, guiding questions that have long beset humanity as they appear in core Western texts. Honors Core 1 is designated as a General Education course. The General Education curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting your requirement in the Social Science, Socio-Political Perspectives area. The major General Education learning outcomes for this course are Analysis / Evaluation, Information Literacy, Team Work Skills, and Service Learning / Civic Engagement. Offered Spring Semester only. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.

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

IDH 3055    Honors Thesis Research Methods
1 sh (may not be repeated for credit)
This course helps students understand the thesis-writing process and covers the basic research methodologies required to begin a thesis project. Each week, we will address one important step in the thesis process, starting with the question, "What is a thesis?", and finishing with the submission of a completed thesis prospectus and annotated bibliography (aka a literature review) of sources relevant to the student's chosen topic. Along the way, we will cover important areas such as choosing a topic, approaching an advisor, scholarly research methods, time management, and thesis presentation requirements. The class is conducted as a collaborative, hands-on workshop and thus provides a strong level of peer-support for students just beginning work on their theses. The goals of the course are to demystify the thesis process, prepare students to write a successful thesis, and provide intellectual and moral support throughout the early thesis-writing process. Department Permission required. Offered Spring only.

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

IDH 4030    Honors Seminar: Topic I
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4031    Honors Seminar: Topic II
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.
IDS-Interdisciplinary Studies Courses

IDS 4890  Senior Capstone
3 sh (may not be repeated for credit)

The Senior Capstone for the Bachelor of General Studies is designed to encourage self-analysis of career and intellectual interests in the student's chosen career or academic field based on the four cognate areas. By way of readings, discussion, analytical exercises, writing assignments, group exercises, and class presentations, students will demonstrate and practice the skills they have acquired throughout their academic careers. Students will develop a detailed project proposal and complete a final research project linking the four areas of study of the student's personalized BGS degree plan with career and intellectual interests. The final written project will consist of research, reviews, and analysis targeted toward a specified audience. A presentation of the project is required.

IHS-Interdis Health Science Courses

INP-Industrial Applied Psych Courses

INP 3004  Industrial Psychology
3 sh (may not be repeated for credit)

Application of psychological principles to problems of employee selection, placement, merit rating, job analysis, management training and other factors related to productivity.

INP 3313  Organizational Behavior
3 sh (may not be repeated for credit)

Understanding human processes in formal organizations, utilizing individual and group exercises which simulate behavioral dynamics in organizations. Content areas include conflict resolution, communication, leadership, planning and control and other organizational processes. May not be taken for credit by students having credit in either MAN 3240. MAN 3025 or equivalent is suggested prior to taking this course, but not required.

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

INP 4112  Military Psychology
3 sh (may not be repeated for credit)

The course focuses on uses of human factors, industrial-organizational, social and clinical psychology in various military settings to promote the behavioral health of service members and families, performance of individuals and teams, and success in military operations. We will treat the study and practice of psychology in the military as a means for gaining useful insights about human behavior. The course is intended to provide students an orientation to areas they may pursue for greater knowledge and/or employment in military psychology settings. This is a seminar course and as such is expected to be highly interactive and a chance for students to share what they have learned from researching individual topics.
INP 4224  Psychology of Workforce Diversity
3 sh (may not be repeated for credit)
Addresses the experience of work as it varies with the gender and ethnic background of workers in the United States. Other bases of diversity (e.g., disability) may also be addressed. Topics include work-related stereotypes and attitudes; discrimination and harassment; career choice, occupational segregation, and employment patterns; group differences related to fair testing and employment practices; the relationship of workforce diversity to processes such as supervision, leadership, mentoring, and power; law and public policy related to diversity and work. Lecture, discussion, and participative learning methods are used. Three hours of psychology or sociology are required prior to taking this course.

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

INP 5131  Legal Issues in Industrial/Organizational Psychology
3 sh (may not be repeated for credit)
Exposes students to laws, guidelines, and court cases (e.g., ADA, ADEA, FMLA, Sexual Harassment, Civil Rights Acts) important to human resource functions in organizations, with particular emphasis on employment testing for selection.

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

INP 6216  Personnel Selection and Appraisal
3 sh (may not be repeated for credit)
Current issues and techniques in selection, placement and appraisal, job analysis, criterion development; the validation process, assessment centers and EEO issues.

INP 6325  Training and Development
3 sh (may not be repeated for credit)
Examines both the theory and practice of Training and Development in organizations. Provides students with a working knowledge of the industrial psychology model of training the adult learner (i.e., assessing training needs, developing training programs, delivering training programs, and evaluating the success of training interventions). Also explores theories of learning and motivation and post-training strategies for enhancing the success of a training program.

INP 6385  Group Dynamics in Organizations
3 sh (may not be repeated for credit)
Students must take MAN 3025 or PSY 2012 or SOP 3004 before enrolling in this course. Emphasizes the application of general principles and theories derived from group processes research (particularly the social psychological research) to contemporary organizational problems. The classroom experience will be student-centered. Students will be expected to participate in discussion and classroom exercises, and prepare short written analyses of examples and cases. Topics covered may include: group development and socialization, group structure, conformity and influence, conflict, social identity, commitment, power, leadership, performance and decision-making.

INP 6397  Management and Organizational Behavior
3 sh (may not be repeated for credit)
Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Also emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.), and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. Not available to students having credit for MAN 6156.

INP 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
INP 6944  Practicum in Industrial Psychology
1-3 sh (may be repeated for up to 6 sh of credit)
Primarily for education in traditional industrial areas. Involves placement in an industrial setting. 6-8 hours per week of field experience for every hour of credit. Must be an industrial-organizational program student and permission is required.

INR-International Relations Courses

INR 2002  International Politics
3 sh (may not be repeated for credit)

INR 3073  Analyzing Issues in International Politics
3 sh (may not be repeated for credit)
This course examines several key contemporary issues in international politics. The course has both a theoretical and an applied component, with emphasis on readings to build concepts and empirical understanding combined with application through discussion and exercises designed to engage students in qualitative and quantitative analysis of these topics. For the applied component, the course approaches contemporary topics by employing the tools of political science research, including data interpretation in visual form such as charts and graphs, statistics, and models.

INR 3225  Vietnam and American Politics
3 sh (may not be repeated for credit)
The Vietnam War and its impact upon the political experience and social values of the United States.

INR 3503  Model United Nations
3 sh (may not be repeated for credit)
Students will learn the theory behind the founding, the history, the organization, and the parliamentary procedures of the United Nations. During in-class simulations, they learn to represent the University of West Florida at local or regional Model United Nations conferences, where they would be required to be "in-character," representing the views of their assigned country rather than their own. Requires extensive preparation and research.
INR 4060 Causes of War
3 sh (may not be repeated for credit)
This course will examine the causes and evolution of war. Drawing widely from new and established scholarship, it addresses several major topics: war's origins and evolution; theories about the causes and nature of war; arguments for a contemporary world of "new wars;" and theories about the future of war. Along the way, the course analyzes several very different international conflicts, World War I, the Cold War and the recent Iraq War. Specific issues addressed amidst these major themes include war and the state; structural and psychological explanations for war; terrorism and irregular war; and the moral/ethical dimensions of war.

INR 4102 American Foreign Policy
3 sh (may not be repeated for credit)
Americans seek to change the world and remain distinct from it. They energetically export their religious views, yet they officially support secularism. Americans denounce imperialism and coercion, yet they are accused of building a global empire and wielding astounding military power. And above all these tensions, Americans exert unparalleled influence and power in a globalized, increasingly democratic world that they helped create, yet they fret about relative decline and entertain plans for retrenchment and isolation. This course, therefore, seeks to analyze how Americans view and pursue their relationship with the world as well as the foundations and conduct of their foreign policy. It considers the institutions and offices, interests and political culture, and international challenges (including security, economic and humanitarian issues) that shape American foreign policy outcomes. To understand these influences, our readings, lecture and discussion will combine scholarly theories and policy perspectives. We will especially focus on debates regarding America's role as a global leader. Course is offered concurrently with INR 5105; graduate students will be assigned additional work.

INR 4124 Statecraft
3 sh (may not be repeated for credit)
This course introduces students to fundamental questions, theoretical arguments and concepts in the area of foreign policy analysis and decision making, otherwise known as Statecraft. The course examines core topics in statecraft such as deterrence (conventional and nuclear), coercive diplomacy, tools of coercion, and the ethics of using force. Throughout the course, students will also study several prominent cases. Course is offered concurrently with INR 5XX1; 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 4224 War and Peace in East Asia
3 sh (may not be repeated for credit)
This course uses East Asian international history since the late 19th Century to explore some of the most enduring questions about international politics. What are the causes of war? How, once begun, do wars end? Why do some wars end in negotiated settlements while others continue until one side's total defeat? How can states effectively communicate their intentions in spite of pervasive incentives to dissemble and prevaricate? When can alliances deter one's enemies, and when might they draw states into undesirable conflicts? Finally, how do the most powerful states in the system -- the great powers -- manage the ever-shifting landscape of power between them? We begin the course in Part I by introducing two critical components of the modern theory of war: uncertainty and commitment problems?that shed light on both why wars start and how they end. Part II begins with the Sino-Japanese War of 1894-1895, which began a marked shift in power away from China and towards Japan, and ends with the collapse of the Japanese Empire at the end of the Second World War. Next, Part III explores the politics of the Cold War, which saw the consolidation of Communist China and the retreat of the Nationalist government to Taiwan at the end of the Chinese civil war and the United States? entry into the region as the status quo superpower during the Korean War. Finally, Part IV takes up questions of China's emergence as an economic power, continuing frontier rivalries with Taiwan, Russia, and smaller neighbors, and the possibility of its emergence as a global power in the coming decades. This course will be offered concurrently with INR 5xx1 War and Peace in East Asia; graduate students will be given additional work.

INR 4314 Grand Strategy in International Relations
3 sh (may not be repeated for credit)
This course evaluates the historical, philosophical and scientific dimensions of grand strategy. As a topic, "grand strategy" refers to the link between a state's goals and capabilities. It is how states understand and pursue their perceived interests and roles in the world. Understanding grand strategies offers an essential tool to evaluate states' foreign policies as well as the international system in which they operate. The course works through several historical and contemporary case studies of great and mid-level powers, such as Russia, China and the United States. It considers grand strategy's institutional, cultural and external sources, and it apprises the normative or ethical goals of grand strategy. Throughout these case studies, students will also engage major theories, and they will interrogate key issues such as economic integration, nonproliferation, diplomatic agendas, conflict and cybersecurity. This course is offered concurrently with INR 5316; graduate students will have additional work.

INR 4334 National Security Policy
3 sh (may not be repeated for credit)
Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 5330; graduate students will be assigned additional work.
INR 4364 Intelligence
3 sh (may not be repeated for credit)
Covers the origins, missions, functions, and responsibilities of the US security agencies as well as the relationship of the intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 5365; graduate students will be assigned additional work.

INR 4403 International Law
3 sh (may not be repeated for credit)
Nature, history and trends of legal controls on international behavior; conflict between theory and practice; cases will be used to illustrate various points of law.

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

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

INR 5065 Causes of War
3 sh (may not be repeated for credit)
This course will examine the causes and evolution of war. Drawing widely from new and established scholarship, it addresses several major topics: war?'s origins and evolution; theories about the causes and nature of war; arguments for a contemporary world of ?new wars;? and theories about the future of war. Along the way, the course analyzes several very different international conflicts, World War I, the Cold War and the recent Iraq War. Specific issues addressed amidst these major themes include war and the state; structural and psychological explanations for war; terrorism and irregular war; and the moral/ethical dimensions of war. Offered concurrently with INR 4060; graduate students will have additional work.

INR 5105 American Foreign Policy
3 sh (may not be repeated for credit)
Americans seek to change the world and remain distinct from it. They energetically export their religious views, yet they officially support secularism. Americans denounce imperialism and coercion, yet they are accused of building a global empire and wielding astounding military power. And above all these tensions, Americans exert unparalleled influence and power in a globalized, increasingly democratic world that they helped create, yet they fret about relative decline and entertain plans for retrenchment and isolation. This course, therefore, seeks to analyze how Americans view and pursue their relationship with the world as well as the foundations and conduct of their foreign policy. It considers the institutions and offices, interests and political culture, and international challenges (including security, economic and humanitarian issues) that shape American foreign policy outcomes. To understand these influences, our readings, lecture and discussion will combine scholarly theories and policy perspectives. We will especially focus on debates regarding America's role as a global leader. Offered concurrently with INR 4102; graduate students will be assigned additional work.

INR 5129 Statecraft
3 sh (may not be repeated for credit)
This course introduces students to fundamental questions, theoretical arguments and concepts in the area of foreign policy analysis and decision making, otherwise known as Statecraft. The course examines core topics in statecraft such as deterrence (conventional and nuclear), coercive diplomacy, tools of coercion, and the ethics of using force. Throughout the course, students will also study several prominent cases. Course is offered concurrently with INR 4XX1; graduate students will be assigned additional work.

INR 5206 Spying: Fact and Fiction
3 sh (may not be repeated for credit)
Examination, in a seminar environment, of various aspects of espionage among major powers in the period 1915-2006. The primary focus of the course is on real-world human intelligence and counterintelligence activities of espionage agencies revealed in six novels. Coverage will be given to operations by German, French, British, Soviet, and U.S. human intelligence organizations supporting their nation's vital national interests from World War I and II, the Cold War and in the modern era. Offered concurrently with INR 4205 (Spying: Fact and Fiction); graduate students will be assigned additional work.
INR 5316  Grand Strategy in International Relations
3 sh (may not be repeated for credit)
This course evaluates the historical, philosophical and scientific dimensions of grand strategy. As a topic, grand strategy refers to the link between a state’s goals and capabilities. It is how states understand and pursue their perceived interests and roles in the world. Understanding grand strategies offers an essential tool to evaluate states’ foreign policies as well as the international system in which they operate. The course works through several historical and contemporary case studies of great and mid-level powers, such as Russia, China and the United States. It considers grand strategy’s institutional, cultural and external sources, and it apprises the normative or ethical goals of grand strategy. Throughout these case studies, students will also engage major theories, and they will interrogate key issues such as economic integration, nonproliferation, diplomatic agendas, conflict and cybersecurity. This course is offered concurrently with INR 4314; graduate students will have additional work.

INR 5330  National Security Policy
3 sh (may not be repeated for credit)
Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 4334; graduate students will be assigned additional work.

INR 5365  Intelligence
3 sh (may not be repeated for credit)
Covers the origins, mission, functions, and responsibilities of the US security agencies as well as the relationship of intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 4364; graduate students will be assigned additional work.

INR 5547  War and Peace in East Asia
3 sh (may not be repeated for credit)
This course uses East Asian international history since the late 19th Century to explore some of the most enduring questions about international politics. What are the causes of war? How, once begun, do wars end? Why do some wars end in negotiated settlements while others continue until one side’s total defeat? How can states effectively communicate their intentions in spite of pervasive incentives to dissemble and prevaricate? When can alliances deter one’s enemies, and when might they draw states into undesirable conflicts? Finally, how do the most powerful states in the system -- the great powers -- manage the ever-shifting landscape of power between them? We begin the course in Part I by introducing two critical components of the modern theory of war?uncertainty and commitment problems?that shed light on both why wars start and how they end. Part II begins with the Sino-Japanese War of 1894-1895, which began a marked shift in power away from China and towards Japan, and ends with the collapse of the Japanese Empire at the end of the Second World War. Next, Part III explores the politics of the Cold War, which saw the consolidation of Communist China and the retreat of the Nationalist government to Taiwan at the end of the Chinese civil war and the United States? entry into the region as the status quo superpower during the Korean War. Finally, Part IV takes up questions of China?s emergence as an economic power, continuing frontier rivalries with Taiwan, Russia, and smaller neighbors, and the possibility of its emergence as a global power in the coming decades. This course will be offered concurrently with INR 4224 War and Peace in East Asia; graduate students will be given additional work.

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

INR 6007  Seminar in International Relations
3 sh (may not be repeated for credit)
International Relations as a field study; theory, empirical data, historical development of the field.

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

**INS-International Studies Courses**

INS 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ISC-Interdisciplinary Sciences Courses

ISC 5517  Buddhist Psychology
2 sh (may not be repeated for credit)
Psychological overview of Buddhist theory and practice as they relate to everyday living, clinical practice and personal and transpersonal growth. Drawing from Theravada, Mahayana, Tantra and Zen, topics include four noble truths, suffering, concentration, jhanas, dependent origination, attachments, mindfulness, vipassana, nature of self, consciousness, compassion, insight, freedom, and enlightenment.

ISC 5517L  Buddhist Psychology Lab
1 sh (may not be repeated for credit)
Students learn and practice different types of meditation to cultivate concentration and mindfulness during meditation and daily living. Construction of a personal mandala and regular class attendance and participation are required.

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

ISM-Information Systems Mgmt Courses

ISM 3011  e-Business Systems Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.
Use and application of information system technology in the business environment, with emphasis on the fundamental e-Business models, technology concepts and systems used to enable and conduct electronic business. Concepts include the components of an I.S., the systems development process, the functions of the various types of communication networks, hardware, and software, including practical, hands-on projects designed to enhance e-Business analytical skills.

ISM 3116  Business Intelligence Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Business Intelligence Fundamentals uses spreadsheets to identify trends and relationships in business data and how to apply them in a business environment. The focus of the course is on the managerial application of the results rather than the algorithmic derivation of the results.

ISM 3235  Business Development Environments
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570
Explores the concepts involved in the development of event-driven business applications. Concepts covered include GUI application design and development, object-oriented systems linking business objects, and client-server environments. Uses an object-oriented programming language to demonstrate the concepts. Prior programming experience preferred but not required.

ISM 3323  Information Security Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 OR COP 2253
Information Security in the modern organization is both a management and a technology issue. Course recognizes that technology alone cannot address all the security issues; Prepares students for management and control of security of information systems in organizations; prepares students to make informed decisions regarding administration of information security infrastructure.

ISM 4113  Business Systems Design
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
A project-based introduction to the principles of business information systems design, including the basic methods and procedures involved in planning and controlling the development and modification of a computer-based information system in an organization. Students use modern microcomputer-based, computer-aided systems design tools and techniques to complete design projects. Focuses on the importance of end-user specifications for information systems projects.

ISM 4117  Business Intelligence Applications
3 sh (may not be repeated for credit)
Prerequisite: ISM 3116 OR ISM 4481 OR COP 4710
Business Intelligence Applications uses various information technologies to identify, locate, acquire, transform, visualize and analyze business data in an effort to create new data products within an organizational context. The focus of the course is on using methodologies from design science to create new data products for management use in decision making. Offered concurrently with ISM 5404; graduate students will be assigned additional work.

ISM 4300  Systems Planning, Design and Control
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Techniques for the planning, design and control of information systems. Stresses link between strategic planning of the organization and strategic planning of the management information system.

ISM 4320  Legal, Ethical, and Human Aspects of Cybersecurity
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
This course address the human facets of cybersecurity. Coverage will include ethics, legal and regulatory environment, psychology, and hacker culture. The focus will be on the human element and the motivation and deterrence of cyber-crimes. Offered concurrently with ISM 5327; graduate students will be assigned additional work.

ISM 4321  Cybersecurity Risk Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
The course focuses on the application of risk management theory and principles to information security policy. An additional major area of focus is incident response and contingency planning consisting of incident response planning, disaster recovery planning, and business continuity planning. Offered concurrently with ISM 5328; graduate students will be assigned additional work.
ISM 4400  Decision Support and Data Integration Systems
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
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  Business Data Communication
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Explores the complexities of data management in the digital world of big data. Uses advanced information technology and software tools to analyze data and create business intelligence. Offered concurrently with ISM 5208; graduate students will be assigned additional work.

ISM 4483  Business Data Communication
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
Explores the technology and management concepts, issues and decisions related to the infrastructure required to support end-to-end, partner-to-partner electronic business processes required to support end-to-end, partner-to-partner electronic business processes. Additionally, the course provides an overview of basic network management and security concepts. Offered concurrently with ISM 5222; graduate students will be assigned additional work.

ISM 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ISM 4943  Internship in Management Information Systems
1-3 sh (may not be repeated for credit)
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 5028  Business Data Management
3 sh (may not be repeated for credit)
Explores the complexities of data management in the digital world of big data. Uses advanced information technology and software tools to analyze data and create business intelligence. Offered concurrently with ISM 4481; graduate students will be assigned additional work. Graduate student status is required.

ISM 5208  Business Data Communication
3 sh (may not be repeated for credit)
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. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.

ISM 5222  Business Data Communication
3 sh (may not be repeated for credit)
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. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.

ISM 5227  Legal, Ethical, and Human Aspects of Cybersecurity
3 sh (may not be repeated for credit)
This course address the human facets of cybersecurity. Coverage will include ethics, legal and regulatory environment, psychology, and hacker culture. The focus will be on the human element and the motivation and deterrence of cyber-crimes. Offered concurrently with ISM 4320; graduate students will be assigned additional work. Graduate student status is required.

ISM 5287  Cybersecurity Risk Management
3 sh (may not be repeated for credit)
The course focuses on the application of risk management theory and principles to information security policy. An additional major area of focus is incident response and contingency planning consisting of incident response planning, disaster recovery planning, and business continuity planning. Offered concurrently with ISM 4321; graduate students will be assigned additional work. Graduate student status is required.

ISM 5404  Business Intelligence Applications
3 sh (may not be repeated for credit)
Business Intelligence Applications uses various information technologies to identify, locate, acquire, transform, visualize and analyze business data in an effort to create new data products within an organizational context. The focus of the course is on using methodologies from design science to create new data products for management use in decision making. Offered concurrently with ISM 4117; graduate students will be assigned additional work. Graduate student status is required.

ISM 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ISM 6026  Management of Information Systems and Technology
3 sh (may not be repeated for credit)
Provides the M.B.A. student with a contemporary managerial perspective on the effective use of information systems in global organizations through case analyses and class discussions. Topics include the business value of information systems, integration of information systems with enterprise strategy, the use of information systems to achieve organizational redesign for strategic advantage, and applying the processes of leadership and management to information systems planning and implementation. Contains a portfolio project.

ISM 6136  Big Data Mining: A Managerial Perspective
3 sh (may not be repeated for credit)
Prerequisite: QMB 6305
Covers the new management paradigm of data-driven decision making from both a technology and managerial perspective. Principles of big data and data mining will be discussed in class lectures and employed through assignments and projects.

ISM 6137  Business Analytics
3 sh (may not be repeated for credit)
Prerequisite: QMB 6305
This course focuses on development of quantitative and analytical skills required to model, analyze, interpret and solve managerial decision making problems.
**JAP-Japanese Courses**

**JPN 1120C  Japanese I**
3 sh (may not be repeated for credit)
For students with no knowledge of Japanese. Lays a foundation for speaking, writing and reading the language.

**JPN 1121C  Japanese II**
4 sh (may not be repeated for credit)
Prerequisite: JPN 1120C
Continuation of Japanese I.

**JPN 1905  Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**JPN 2200  Japanese III**
3 sh (may not be repeated for credit)
Prerequisite: JPN 1121C
Japanese III will strengthen speaking and hearing communication skills. Practice on speed, rhythm and pronunciation will be stressed. In addition, this course will focus on basic writing and reading comprehension skills with new Kanji and vocabulary.

**JPN 2201  Japanese IV**
3 sh (may not be repeated for credit)
Prerequisite: JPN 2200
Japanese IV will continue building speaking and hearing communication skills developed in Japanese III. Intensive practice on speed, rhythm, and pronunciation will be stressed. In addition, this course will focus on strengthening writing and reading comprehension skills and introduce new Kanji and vocabulary.

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

**JPN 3270  Supervised Language Experience Abroad**
3 sh (may not be repeated for credit)
Japanese language study in Japan. Two semesters of Japanese or a proficiency in conversational Japanese and permission is required. Meets Multicultural Requirement.

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

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

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

**JOU-Journalism Courses**

**JOU 3100  News Reporting**
3 sh (may not be repeated for credit)
Prerequisite: COM 2713 AND ENC 1101 AND ENC 1102
This course will serve as an introduction to the world of news reporting, both print and online. Students will get a taste of what journalists do daily: generate story ideas, develop sources, conduct interviews, write, edit, rewrite and edit again. The course also will provide an overview of media law, media ethics and Associated Press style.

**JOU 3300  Feature Writing**
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Research 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 3330  Supervised Writing**
3 sh (may not be repeated for credit)
Prerequisite: JOU 3330
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 3300  Feature Writing**
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Research 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 3700  Issues in Journalism**
3 sh (may be repeated for up to 90 sh of credit)
Introduction to major issues challenging news media in today's digital society, including ethics, public perception of the press, the Internet, political pressures, financial viability and standards of print performance.

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

**JOU 3940  Practicum: Voyager**
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: JOU 2100
Experience in preparing news, opinion and feature material for publication in the student newspaper. Permission is required.

**JOU 4181  Public Affairs Reporting**
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Principles and procedures involved in reporting and writing news stories about public affairs / government for newspapers, broadcasters and online news services. Permission is required.
JOU 4201  Newspaper Editing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
The editing of local and wire copy for newspapers and other publications. Strong emphasis on principles of grammar, punctuation, diction, syntax, and logic. Headline writing, outline writing, news judgment and photo display. Use of standard reference books.

JOU 4213  Newspaper Design
3 sh (may not be repeated for credit)
Principles and practices in newspaper layout and design. Credit may not be received in both JOU 4213 and JOU 4211.

JOU 4306  Writing Critical Reviews
3 sh (may not be repeated for credit)
Devoted to writing reviews of books, film, art, and music. Meets Gordon Rule Writing Requirement.

JOU 4308  Magazine Writing
3 sh (may not be repeated for credit)
Principles and practices in the art of writing for magazines. Focuses on in-depth reporting and refined focus for the magazine market. Meets Gordon Rule Writing Requirement.

JOU 4445  Magazine Publishing
3 sh (may not be repeated for credit)
This class creates, designs and publishes an online magazine focused on the University of West Florida. Students work as an editorial team led by editors from the class. Positions for which students will apply are executive editor, content editors, design editors, copy editors, graphic/photo editors and writers. While all students will produce at least one article for the magazine, each will be assigned additional responsibilities. This editorial team, in a collaborative manner, will explore and uncover interesting UWF subjects for articles, investigate those subjects and then write articles that will be edited and used in creative designs. Permission is required.

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

JST-Jewish/Judaic Studies Courses

LAE-Lang Arts English Ed Courses

LAE 3314  Literacy for the Emergent Learner
3 sh (may not be repeated for credit)
This course introduces pre-service teachers to the development of early literacy from birth through the primary grades. It focuses on the development of language skills, phonological awareness, word identification, fluency, and comprehension. Students will examine theories of early literacy development along with effective practices for instructing young children. This course meets the requirements for Competency 1 of Florida's Reading Endorsement.

LAE 3324  Teaching Language Arts in the Middle and Secondary Schools
3 sh (may not be repeated for credit)
This course is designed to assist pre-service teachers in utilizing researched-based theory and methods in implementing a dynamic and successful literacy program in the middle/secondary classroom. Emphasis is placed upon provision of a balance between expressive and practical composition opportunities for students and upon instructional procedures to assist pupils in developing the strategies and skills that support effective written and verbal communication.

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

LAE 4464  Young Adult Literature
3 sh (may not be repeated for credit)
Modern works of literature that have demonstrated appeal for adolescents and works written specifically for the age range of 12 to 20 years. The works will be considered in the context of young adult needs: psychological, social and ethical. Designed primarily for education majors.

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

LAE 5345  Methods of Advanced Language Arts and Writing
3 sh (may not be repeated for credit)
Students will learn inquiry-based pedagogies for teaching writing in grades K-12, how to create a classroom community of writers through a variety of evidence-based frameworks and practical strategies for effective writing instruction, and effective methods for embedding meaningful stylistic and mechanical instruction to support writer/writing development.

LAE 5468  Literature for Children and Young Adults
3 sh (may not be repeated for credit)
Students in this course will explore contemporary and multicultural literature, authors, illustrators, and genres with a focus on selecting and evaluating quality literature for children and young adults. Topics will address literary understandings, critical perspectives, and issues and trends related to the field. Students will also gain skills for integrating literature into the K-12 school curricula and programs.

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

LAE 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
LAH-Latin American History Courses

LAH 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
LAH 6476  Colonial Caribbean
3 sh (may not be repeated for credit)
This class introduces students to the colonial Caribbean as a historically unique region. It begins in 1492 with contact and ends with the emancipation of 1833. We will move rapidly through the century of Spanish hegemony before turning to the British islands as they evolved from frontiers to mature plantation societies. Students will evaluate scholarship and sources in the classroom and in major research projects.

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

LAT-Latin (Language Study) Courses

LAT 1120C  Latin I
4 sh (may not be repeated for credit)
Latin I introduces students to the fundamentals of the Latin language and provides the basic skills for reading and translating Latin poetry and prose. It also exposes students to the language, culture and history of the Romans. Students will master the vocabulary, morphology, and syntax and practice in the fluid translation of Latin to English and English to Latin. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

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

LEI 4321  Sport, Adventure and Ecotourism
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3053; Completion of 60 hours of college course work is required prior to taking this course.

LEI 4322  Community Tourism Development
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3053; Completion of 60 hours of college course work is required prior to taking this course.

LEI 4332  Community Tourism Development
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000 AND HFT 3053; Completion of 60 hours of college course work is required prior to taking this course.

Experiences 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. Junior or Senior classification is required.

LEI 4350  Outdoor Leisure
3 sh (may not be repeated for credit)
Survey of issues affecting outdoor leisure in America from a conservation/environmental perspective; and the effective communication of outdoor leisure values. Analysis of leadership skills associated with outdoor leisure activities. Material and supply fee will be assessed.

LEI 4400  Programming and Special Events
3 sh (may not be repeated for credit)
Prerequisite: LEI 3140

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

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

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

LIN-Linguistics Courses

LIN 3673  Grammar for Professional Success
3 sh (may not be repeated for credit)
An upper-division grammar class which focuses on the principles and conventions of writing. The purpose of this course is twofold: to review the regulatory rules of writing so that students can write responsibly by controlling and editing their own work; and to offer students the language choices available to them as speakers and writers of American English: language choices for informal conversations and texting, for instance, versus language choices for academic, business, and other forms of published writing. Because acceptable professional communication is different from some “acceptable” forms of digital communication, the course makes overt distinctions between the two.

Whether your goal is to improve your writing, review the mechanics of writing, become a professional editor, or to learn enough grammar to teach it, this course will give you the kind of knowledge about the English language that most educated members of our society share. The principal goal of Practical Grammar is to offer students a review of the principles and rules of standard American English so that they can edit their own documents. As William Strunk, Jr. says in The Elements of Style, “One must first know the rules [of grammar] to break them.”.

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.
LIN 3742  Modern Grammar and Usage  
3 sh (may not be repeated for credit)

Grammar of modern English, including traditional; concentration on structural, generative and transformational approaches. Intended for English majors, required of those preparing for careers in secondary education.

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

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

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

**LIS-Library Info Studies Courses**

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

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

**LIT-Literature Courses**

LIT 1122  Great Books I  
3 sh (may not be repeated for credit)

Reading / discussion of major literary texts that have shaped Western culture and civilization. Meets Gordon Rule Writing Requirement.

LIT 1905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

LIT 2000  Introduction to Literature  
3 sh (may not be repeated for credit)

This course is designed for students from all majors who are interested in learning more about reading literature at the college level. A wide range of literary works are examined, with an emphasis on exposing students to as many genres as possible. Critical thinking and writing skills are also emphasized. Students considering a major in English or who enjoy reading good books are encouraged to take this course. Credit may not be received in both LIT2000 and LIT2100. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

LIT 2030  Introduction to Poetry  
3 sh (may not be repeated for credit)


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

LIT 3084  Modern Prose Fiction  
3 sh (may not be repeated for credit)

Selected prose fiction of 20th century and related criticism.

LIT 3191  World Literature  
3 sh (may not be repeated for credit)

Covers a range of topics focusing on non-U.S. literatures. Texts vary each semester according to interest and expertise of the instructor.

LIT 3233  Postcolonial Literature  
3 sh (may not be repeated for credit)

Examines world literature produced in the context of colonialism and subsequent movements for independence. Links the study of literature to the political, psychological and cultural effects of imperialism and globalization. Specific topics vary according to faculty expertise and research interests. Meets Multicultural Requirement.

LIT 3463  Literature and Visual Studies  
3 sh (may not be repeated for credit)

Examines literature in the context of film, the visual arts, and emerging new media. Emphasis on twentieth century and contemporary literary and aesthetic movements.

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

LIT 4013  The Novel  
3 sh (may not be repeated for credit)

The novel as a genre; exploration of the techniques of narrative, characterization, point of view, voice, reflectivity and others. May include texts from diverse national origins.

LIT 4385  Feminist Theory  
3 sh (may not be repeated for credit)

This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year. Meets Multicultural Requirement.

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

LIT 5018  Topics in Fiction  
3 sh (may be repeated for up to 12 sh of credit)

Special topics in fiction. Topics change each term. See department or instructor for specific topic.

LIT 5037  Topics in Poetry  
3 sh (may be repeated for up to 12 sh of credit)

Special topics in poetry.

LIT 5105  Topics in World Literature  
3 sh (may be repeated for up to 12 sh of credit)

Generic or thematic topics involving more than one national literature.

LIT 5556  Feminist Theory  
3 sh (may not be repeated for credit)

This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year.

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

LIT 6905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)
MAA-Mathematics: Analysis Courses

MAA 4211  Advanced Calculus I  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2313 AND MHF 3202  

MAA 4212  Advanced Topics in Multi-Variable Calculus  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2313  

MAA 4402  Analytic Functions  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2313  
Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Offered concurrently with MAA 5404; graduate students will be assigned additional work.

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

MAA 5404  Analytic Functions  
3 sh (may not be repeated for credit)  
Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Senior standing is required. Offered concurrently with MAA 4402; graduate students will be assigned additional work.

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

MAA 6426  Complex Analysis  
3 sh (may not be repeated for credit)  
Several advanced topics in the theory of complex variables are covered including analytic functions, harmonic functions, Cauchy's theorem and integral formula, maximum modulus principle, Laurent series, singularities, and the residue theorem. The course objective is to present in a rigorous manner the parts of the theory that are prominent in applications of the subject.

MAC-MAthematics: Calc Precalc Courses

MAC 1105  College Algebra  
3 sh (may not be repeated for credit)  
Prerequisite: MAT 1033 OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math  
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. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 1105C  College Algebra with Lab  
4 sh (may not be repeated for credit)  
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. It is, additionally, a preparatory course for the study of calculus. This course reviews the material contained in intermediate algebra and covers the material in college algebra. Major topics include: the concept of functions, operations on function, rational functions, exponentials and logarithms, systems of equations and inequalities, applications. Students may not earn credit for both MAC 1105C (Intensive College Algebra) and MAC 1105 (College Algebra). Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 1114  Trigonometry  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 1105 OR MAC 1105C OR MAC 1140 OR 520 SAT Math OR 22 ACT English OR 123  
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. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.
MAC 1140 Precalculus Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114* OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math OR 083 CPT Elemen. Algebra
Stresses the aspects of algebra that are important for the calculus sequence. Lays emphasis on graphs in the study of functions and algebraic relations. Covers polynomials; rational functions; logarithmic, exponential, and piecewise defined functions; inequalities; conic sections; matrices; sequences, and series; mathematical induction. Prerequisite course or appropriate score on placement test is required. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 1147 Precalculus with Trigonometry
4 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR 22 ACT Math OR MAC 1105C OR 520 SAT Math OR 123 PERT Math
This course stresses the aspects of algebra and trigonometry that are important for the calculus sequence. The course 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; and sequences and series. Additionally, the course covers angles, trigonometric functions and graphs; inverse trigonometric functions and graphs; trigonometric formulas, identities and equations; solutions of triangles; and polar coordinates, equations, and graphs. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAC 2233 Calculus with Business Applications
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114 OR MAC 1140
Sets and functions; derivatives; areas under a curve; integration; exponentials and logarithms; applications of derivatives and integrals. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MAC 2311 Analytic Geometry and Calculus I
4 sh (may not be repeated for credit)
Prerequisite: MAC 1147 OR (MAC 1105 AND MAC 1114) OR (MAC 1114 AND MAC 1140) OR (MAC 1105C AND MAC 1114)

MAC 2312 Analytic Geometry and Calculus II
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311

MAC 2313 Analytic Geometry and Calculus III
4 sh (may not be repeated for credit)
Prerequisite: MAC 2312

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

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

MAC 3949 Cooperative Education
1-2 sh (may be repeated for up to 4 sh of credit)
Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAC 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

**MAD-Mathematics: Discrete Courses**

MAD 3107 Discrete Mathematics and Applications
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202*
Introductory combinatorics, counting, graphs and trees, and their applications; relations and partial orders; some algorithms associated with applications of graphs, trees, and relations.

MAD 4301 Graphs and Their Application
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202
Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite Graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 5305; graduate students will be assigned additional work.

MAD 4401 Numerical Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAS 3105

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

MAD 5305 Graphs and Their Applications
3 sh (may not be repeated for credit)
Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 4310: graduate students will be assigned additional work.

MAD 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MAD 6396  Topics in Combinatorial Theory  
3 sh (may not be repeated for credit)  
This course is devoted to topics chosen from among graph theory,  
coding theory, matroid theory, design theory, finite geometries,  
projective geometries, optimization, and searching and sorting  
algorithms.

MAD 6405  Numerical Analysis I  
3 sh (may not be repeated for credit)  
Theoretical treatment of numerical methods of linear algebra  
supplemented with use of computers; polynomial approximations,  
uniform approximations, least square approximations, error analysis for  
umerical solutions of linear equations, algebraic eigenvalue problems.

MAE 4310  Teaching Mathematics in the Elementary School  
3 sh (may not be repeated for credit)  
This course is a requirement for the elementary education teacher  
preparation program. The course is designed to provide students  
with the methodology requisite to effective mathematics teaching in  
elementary school classrooms. The coursework centers on utilizing  
mathematics content knowledge and process skills in the development  
effective instructional strategies for the elementary level learners.  
This course addresses the Next Generation Sunshine State Standards  
(Common Core State Standards for Mathematics) within lesson  
planning assignments. Material and supply fee will be assessed.

MAE 4320  Teaching Mathematics in the Middle and Secondary  
Schools  
3 sh (may not be repeated for credit)  
Theory and methods of teaching Mathematics in the middle and  
secondary schools; explores current research on approaches  
in teaching and learning mathematics; examines the practice of  
mathematics, disciplinary core ideas in mathematics, and crosscutting  
themes in mathematics; compares various models of teaching (i.e.  
direct instruction, inquiry, project-based learning); Includes practices  
to effectively move student thinking toward meaningful understanding  
 focusing on best practices in STEM disciplines.

MAE 4657  Mathematics for the 21st Century  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2311  
Utilizes appropriate technologies for teaching mathematics at the  
middle and secondary school levels. Offered concurrently with MAE  
5658; graduate students will be assigned additional work.

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

MAE 6115C  Teaching Mathematics in Elementary Education  
3 sh (may not be repeated for credit)  
Analysis and evaluation of new programs and practices in teaching  
elementary school mathematics, including study of effects of these  
programs on teaching methods and materials; lab experiences  
including design, field testing and evaluation of activity-oriented  
lessons in mathematics and development of competence in the use of  
teaching aids in mathematics instruction; contemporary approaches  
to teaching elementary mathematics concepts and problem solving;  
development of competence in the use of alternative assessment  
techniques. Material and Supply fee will be assessed.

MAE 6361  Teaching Mathematics in Middle Level and Secondary  
Education  
3 sh (may not be repeated for credit)  
Prerequisite: EDM 6944* OR ESE 6944*  
The purpose of this course is to assist middle and secondary level  
teachers to develop theoretical understanding and skills necessary  
to teach mathematics, that are consistent with current reform efforts  
in mathematics education. The course focuses on components of  
understanding mathematics teaching and learning: (1) how students  
learn mathematics, and (2) the role of the teacher in delivering  
effective mathematics lessons for general math courses and college  
preparatory courses. The course provides prospective high school  
teachers the opportunity to develop concepts, skills, and pedagogical  
procedures for effective instruction of mathematics. Material and  
supply fee will be assessed. In-depth knowledge of Mathematics  
equivalent to Bachelor's degree in mathematics) is required before  
enrolling in this course.

MAN 3025  Management Fundamentals  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 45 hours of college course work is required  
 prior to taking this course.  
Study of principles of management. Process and content of  
management analyzed. Emphasizes classical, human relations, human  
resources, behavioral and quantitative management methods. Content  
includes planning, organizing, leading, control, employment cycle,  
organization design, and motivation.

MAN 3240  Behavior in Organizations  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 45 hours of college course work is required  
 prior to taking this course.  
A study of human and group behavior in organizations and within  
society. The focus is on developing student ability to work in group  
settings and organizations. Topics include personality, motivation,  
leadership, communication, power, change, and conflict. May not be  
taken for credit by students having credit INP 3313.
MAN 3301 Human Resources Management  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.  

Introduction to personnel administration; emphasis on the basic personnel function of both the personnel specialist and the operating manager. Critical issues stressed include selection, compensation, OSHA, EEO, unions and discipline.  

MAN 3504 Operations Management  
3 sh (may not be repeated for credit)  
Prerequisite: STA 2023  
Application of quantitative and qualitative management techniques for improving quality and efficiency of manufacturing and service organizations. Coverage of productivity, quality, forecasting, design of goods/services, project management and other related topics.  

MAN 3550 Introduction to Management Science  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2233 AND MAN 3025  
Quantitative decision-making methods and their application to planning and control of operations. Systems concept of organization and mathematical reasoning in decision-making emphasized. Cases and incidents provide illustrations. Credit can only be earned for one of these three courses: MAN 3540, MAN 3550 and ISM 3XX1.  

MAN 3583 Project Management  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.  

An introduction to the field of Project Management. Covers concepts and skills used to propose, plan, secure resources, budget, manage risk, and lead teams to successful project completion. The course emphasizes the universal nature of the techniques which enable individuals to manage a variety of projects in diverse organizational settings. Students individually develop project plans for projects in their respective disciplines.  

MAN 3802 Small Business/Family Business Management  
3 sh (may not be repeated for credit)  
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. Junior standing is required for degree seeking students.  

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

MAN 3949 Cooperative Education  
1-2 sh (may be repeated for up to 4 sh of credit)  

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.  

MAN 4102 Management of Diversity  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.  

Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 5116; graduate students will be assigned additional work. Meets Multicultural Requirement.  

MAN 4280 Business Leadership and Change Management  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.  

A course on Leadership and Change Management to prepare students to respond to the needs of a dynamic global business climate. Prepares students to take responsibility to work collaboratively with others in developing change management strategies in bringing about change and overcoming resistance.  

MAN 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?Legislative direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 5331; graduate students will be assigned additional work.  

MAN 4341 Performance Management  
3 sh (may not be repeated for credit)  
Prerequisite: MAN 3301  
Employees are commonly recognized as an organization?Legislative resource. Thus, ensuring that employees achieve and maintain their highest performance is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research in change management, organizational development, performance management, and training so that students may learn how to effectively manage human capital for optimal performance. Offered concurrently with MAN 5347; graduate students will be assigned additional work.  

MAN 4350 Recruitment and Selection  
3 sh (may not be repeated for credit)  
Prerequisite: MAN 3301  
Employees are commonly recognized as an organization?Legislative resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research on effective recruitment and selection of human capital so that students may learn how to establish and effectively manage staffing systems. Offered concurrently with MAN 5351; graduate students will be assigned additional work. Offered concurrently with MAN 5351; graduate students will be assigned additional work.
MAN 4441  Business Negotiation  
3 sh (may not be repeated for credit)  
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 5446; graduate students will be assigned additional work.

MAN 4570  Purchasing and Supply Management  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3202

Students will learn the fundamental concepts of purchasing, negotiation and supply management. Emphasis is placed on strategic sourcing, negotiation, cost management, balanced scorecards, ethics, electronic purchasing, forming supplier partnerships and managing supplier quality. The class will provide strategic understanding for the organizational buyer and challenge students with practical examples of purchasing situations relevant within the supply chain. Offered concurrently with MAN 5573; graduate students will be assigned additional work.

MAN 4597  Global Logistics Management  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3202

This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility operations, raw material and finished goods movement across borders, and equipment and technology for global logistics. Offered concurrently with MAN 5619; graduate students will be assigned additional work.

MAN 4720  Strategic Management  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403 AND GEB 3213 AND MAN 3025 AND MAN 3504 AND MAR 3023

The capstone course for BSBA in the College of Business offers a culminating experience for students from all majors which involves aggregate planning and development of overall policy for organizations. Emphasizes the system interrelationship of the functional areas of enterprise from the viewpoint of top executives. Senior status and permission is required. Must be taken at UWF.

MAN 4750  The Future: Projecting, Planning and Managing  
3 sh (may not be repeated for credit)  
Prerequisite: GEB 3213

Roles that individuals and organizations have in managing the future. Senior status is required; business majors only. Must be taken at UWF.

MAN 4801  Business Plan Development for New Ventures  
3 sh (may not be repeated for credit)  

Students working in teams will brainstorm potential business opportunities 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. Senior standing is required for degree seeking students.

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

MAN 4940  Internship in Management  
1-6 sh (may not be repeated for credit)  
Prerequisite: Completion of 90 hours of college course work is required prior to taking this course.

On an "as available" basis, management majors may request an internship in management by submitting written proposals to faculty advisors. Proposals must be approved by advisor, chairperson and sponsor. Students must have a 2.5 GPA overall and a 3.0 GPA in management to be eligible for internships. All internships include seminar on internship experience, including written reports. Graded satisfactory / unsatisfactory basis only. Senior status required. Permission is required.

MAN 5116  Management of Diversity  
3 sh (may not be repeated for credit)  

Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles are provided. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 4102; graduate students will be assigned additional work. All majors encouraged. Graduate student status is required. Credit may not be earned in both MAN 5105 and MAN 5116.

MAN 5331  Compensation and Benefits  
3 sh (may not be repeated for credit)  

Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization?ís strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 4330; graduate students will be assigned additional work. Graduate student status is required.

MAN 5347  Performance Management  
3 sh (may not be repeated for credit)  

Employees are commonly recognized as an organization?ís most valuable resource. Thus, ensuring that employees achieve and maintain their highest performance is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research in change management, organizational development, performance management, and training so that students may learn how to effectively manage human capital for optimal performance. Offered concurrently with MAN 4341; graduate students will be assigned additional work. Graduate student status is required.
MAN 5351  Recruitment and Selection
3 sh (may not be repeated for credit)

Employees are commonly recognized as an organization's most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research on effective recruitment and selection of human capital so that students may learn how to establish and effectively manage staffing systems. Offered concurrently with MAN 4350; graduate students will be assigned additional work. Graduate student status is required.

MAN 5446  Business Negotiation
3 sh (may not be repeated for credit)

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 4441; graduate students will be assigned additional work. Graduate student status is required.

MAN 5573  Purchasing and Supply Management
3 sh (may not be repeated for credit)

Students will learn the fundamental concepts of purchasing, negotiation and supply management. Emphasis is placed on strategic sourcing, negotiation, cost management, balanced scorecards, ethics, electronic purchasing, forming supplier partnerships and managing supplier quality. The class will provide strategic understanding for the organizational buyer and challenge students with practical examples of purchasing situations relevant within the supply chain. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4570; graduate students will be assigned additional work.

MAN 5619  Global Logistics Management
3 sh (may not be repeated for credit)

This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility management, raw material and finished goods movement across borders, and equipment and technology for global logistics. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4597; graduate students will be assigned additional work.

MAN 5806C  Small Business Management Consulting
3 sh (may not be repeated for credit)

Practicum in providing management assistance to small businesses in area. Usually students work in pairs and provide assistance to two business firms. Weekly meetings, teaching in consulting and final written report on each firm constitute principal elements. Senior or graduate status, 3.0 GPA and permission are required.

MAN 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
MAP 4115  Introduction to Stochastic Processes
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312

General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal Theory, Branching processes, Queuing systems, applications to quality control. Offered concurrently with MAP 5116; graduate students will be assigned additional work. Meets Gordon Rule Applied Mathematics Requirement.

MAP 4341  Partial Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302

First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. Offered concurrently with MAP 5345; graduate students will be assigned additional work. Meets Gordon Rule Theoretical Mathematics Requirement.

MAP 5116  Introduction to Stochastic Processes
3 sh (may not be repeated for credit)

General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal theory, Branching processes, Queuing systems, applications to quality control. Offered concurrently with MAP 4115; graduate students will be assigned additional work.

MAP 5345  Partial Differential Equations
3 sh (may not be repeated for credit)

First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 4341; graduate students will be assigned additional work.

MAP 5471  Advanced Probability and Inferences
3 sh (may not be repeated for credit)

Advanced topics in probability, limit theorems, limiting distributions, order statistics, weak law of large numbers, strong law of large numbers, central limit theorem. Advanced topics in point and interval estimation, measures of quality of estimates, Exponential families, Completeness, Unbiasedness, Cramer-Rao inequality, Rao-Blackwell theorem, minimum variance unbiased estimators, maximum likelihood estimators principles, Bayes’ and minimax estimation, Robust estimation; Advanced hypothesis testing.

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

MAP 6106  Mathematical Methods of Operations Research I
3 sh (may not be repeated for credit)

Mathematical linear programming models, theory of simplex method, revised simplex methods, dual simplex methods; duality theory and sensitivity analysis, transportation problems, theory of integer programming. Credit may not be received for both MAP 6106 and STA 6607.

MAP 6107  Mathematical Methods of Operations Research II
3 sh (may not be repeated for credit)

Interior-point algorithm, linear goal programming, game theory, nonlinear programming, network analysis, PERT / CPM, queuing theory. Credit may not be received in both MAP 6107 and STA 6608.

MAP 6108  Mathematical Modeling and Initial and Boundary Value Problems
3 sh (may not be repeated for credit)

Methodology and framework for mathematical modeling. Current topics in applied mathematics will be presented emphasizing the interdependency of mathematics and its applications to physical, societal and other "real world” phenomena.

MAP 6377  Numerical Analysis of Partial Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAD 6405

This course provides a basic foundation in numerical methods for solving partial differential equations.

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

MAP 6930  Topics in Applied Mathematics
3 sh (may not be repeated for credit)

This course is devoted to applications chosen from among Numerical Analysis, Numerical Linear Algebra, Ordinary and Partial Differential Equations, Optimization, Mathematical Modeling, and Mathematical Visualization.

MAR-Marketing Courses

MAR 3023  Marketing Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

Function of marketing in our economic system; role of the consumer in marketing decisions; the decisions marketing managers must make to provide goods and services priced, promoted and distributed to meet organizational objectives in changing environments.

MAR 3202  Supply Chain Logistics Management
3 sh (may not be repeated for credit)

Presents the fundamental elements of integrated supply chain and logistics management. It examines the strategic and operational decisions necessary to plan, implement, and control the procurement, storage, management, and distribution of materials, components, and finished goods. Emphasis is placed on product, service, information, and financial flows as facilitated by supply chain logistics strategies, transportation and distribution center operations, facility and network design, inventory and order management, customer service, information execution systems, and outsourcing decisions.

MAR 3370  Information Sources for Business Decisions
3 sh (may not be repeated for credit)

Focuses on various secondary information sources that may be used for business decisions. Students learn how secondary information is organized, what types of secondary information sources are available and how these sources may be effectively and efficiently searched. Emphasis is placed on learning the types of online information services and knowledge of when to use which service. A course project is designed to teach students to evaluate, integrate, and report information. A valuable tool in helping students access information; should be taken early in the junior year if possible. Students will be expected to have some familiarity with Windows and the Internet.
MAR 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 AND 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 (CPM) is doing business through one-to-one relationships using new technological advances created by the information revolution. Focuses on customer development and retention, particularly for the firm's best customers, with emphasis on the management of customer relationships.

MAR 3905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
MAR 4156  Seminar in International Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: GEB 4361  
Emphasis on the emergence of a global marketplace and significant new challenges facing business management in a competitive and rapidly changing international environment. Stresses the problems and challenges that differences in cultural, political, and socioeconomic environments introduce into the marketing process in international operations. Main focus is on the European Union, broadly interpreted to include countries throughout Europe. Foreign competitors and their effects on the American market will also be explored. Meets Multicultural Requirement.

MAR 4231  Retail Strategy  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Instruction in beginning a successful management career in retailing. The retail firm is presented as an integral part of the overall supply chain with emphasis on entrepreneurial and small business retail strategy and operations applicable to a wide variety of industries. Focus is on equipping students with knowledge and skills necessary to create realistic and successful retail strategy.

MAR 4236  Social Media Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Students will learn a conceptual foundation and practical approach to developing successful social media marketing plans. Emphasis will be placed on a social media planning model that provides students with a cumulative learning experience, showing them how to construct social media strategies that achieve desired marketing goals.

MAR 4324  Integrated Marketing Communications: Principles  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Examines the principles of advertising, sales promotion, and related tools within the context of the overall marketing communications program. Focuses on the relationship of advertising, sales promotion, and other tools to marketing plans, the different types of strategic and tactical methods which can be employed, and the evaluation of the overall campaign.

MAR 4403  Sales Management  
3 sh (may not be repeated for credit)  
Analysis of the manager's role in sales force management and related organizational environments. Getting results through others by planning, organizing, staffing, directing, controlling, and motivating employees to achieve the organization's objectives. The process of attaining influence, recognition, and power in an organization.

MAR 4407  Business-to-Business Relationship Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Business-to-Business Relationship Marketing builds upon the foundations of marketing to focus specifically on relationships among industrial companies including suppliers, manufacturers, distributors, and brokers. This course integrates a discussion of organizational behavior, value creation, business-to-business channel relationships, and long term customer retention. Business-to-Business Relationship Marketing incorporates major business functions such as supply chain management, personal selling, customer relationship management and business communications. In business markets these functions are interdependent and require seamless integration in order for the firm to survive in a global economy.

MAR 4412  Professional Selling Methods  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Analysis of professional selling methodology including communication, persuasion, negotiation, and salesmanship. Evaluation of these principles in both business and social environments. Credit may not be received in both MAR 4412 and MAR 4701.

MAR 4613  Marketing Research  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023 AND STA 2023  
Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 5616; graduate students will be assigned additional work.
MAR 4721  Digital Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
This course explores digital marketing in the context of business issues that concern marketers. Topics will include websites, online branding, search marketing, and social media marketing. In addition, the course covers email marketing and marketing analytics.

MAR 4728  High Tech Product Marketing Strategy  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Emphasizes issues associated with marketing high-technology products in an environment of rapid technological change and ever increasing market demands, and focuses on the strategic decisions related to the development, pricing, distribution, and promotion of technology-based products.

MAR 4803  Marketing Strategy  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403 AND MAR 3503  
The integrative capstone experience for all marketing program specializations. Instructional focus is on blending knowledge gained in previous marketing and other business course work with advanced analysis skills in a strategic decision-oriented environment. Course relies primarily on case analysis as an instructional method. Should be taken in the last semester of the student's program of study.

MAR 4831  Services Marketing  
3 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
The US, as well as much of the world economy, is dominated by services. Service organizations such as banks, transportation companies, hotels, educational institutions, and consulting firms require a distinctive approach to marketing--both in its development and execution. This course will build and expand on ideas from Marketing Fundamentals and other marketing courses to address the distinct needs and challenges of managing services and delivering quality service to customers. Credit may not be received in both MAR 4841 and MAR 4842.

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

MAR 4941  Marketing Internship  
1-6 sh (may not be repeated for credit)  
Prerequisite: MAR 3023  
Supervised field practicum in marketing-related position. May include activities in any one or more functional areas of marketing (research, sales, advertising, promotion, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major courses and permission are required.

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

MAR 6815  Marketing Management  
3 sh (may not be repeated for credit)  
Creation of enduring and mutually satisfactory customer relationships through the provision of customer value as an enterprise management philosophy. With consideration given to operating environments, the course is designed to teach the formulation, implementation, and control of comprehensive marketing strategy with emphasis on the integrative aspects of the marketing function in a market based enterprise. Both qualitative and quantitative analyses are used in an applications oriented context. Contains a portfolio project.

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

**MAS-Math: Algebraic Structures Courses**

MAS 3105  Linear Algebra  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2312  

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

MAS 4156  Vector Analysis  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2313  
Vector algebra and calculus; line, surface and volume integrals, theorems of Green, Gauss and Stokes. Meets Gordon Rule Theoretical Mathematics Requirement.

MAS 4203  Number Theory  
3 sh (may not be repeated for credit)  
Prerequisite: MHF 3202  

MAS 4301  Abstract Algebra  
3 sh (may not be repeated for credit)  
Prerequisite: MHF 3202  

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

MAS 5145  Matrix Theory  
3 sh (may not be repeated for credit)  
Canonical forms of matrices, similarity, quadratic forms.

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

MAT 6930 Proseminar in Mathematics
1 sh (may not be repeated for credit)

Each M.A. or M.A.T. candidate (except those who choose the thesis option) shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics / statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory / unsatisfactory basis only. M.A. candidacy and permission is required.

MAT 6971 Thesis
1-6 sh (may be repeated for up to 8 sh of credit)

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

MCB-Microbiology Courses

MCB 1000 Fundamentals of Microbiology
3 sh (may not be repeated for credit)

An introductory microbiology course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. Meets General Education requirement in Natural Sciences.

MCB 1000L Fundamentals of Microbiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 1000*

An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. The lab will focus on basic microbiological techniques relating to isolating, growing, and identifying medically significant microorganisms. Laboratory exercises include microscopy and staining techniques; asepsis and culturing of microorganisms; appropriate handling techniques, including sterilization and disinfection; and methods of enumeration and identification of bacteria. Emphasis will be placed on those concepts and methods that are significant in the medical setting. Material and supply fee will be assessed.

MCB 3020 Microbiology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)) AND (CHM 2210)

Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment.

MCB 3020L Microbiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 3020*

Microbial morphology, physiology, and taxonomy; relationships of microorganisms to total environment. Material and Supply Fee will be assessed.
MCB 3905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

MCB 4276  Epidemiology of Infectious Disease  
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 5273; graduate students will be assigned additional work.

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

MCB 5273  Epidemiology of Infectious Disease  
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 4276; graduate students will be assigned additional work.

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

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

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

**MKA-Marketing Applications Courses**

**MLS-Medical Laboratory Science Courses**

MLS 3031  Introduction to Clinical Laboratory Science  
2 sh (may not be repeated for credit)

Survey course in clinical laboratory sciences. Introduction to the profession, scope of practice, state/federal laws and regulations, code of ethics, and career opportunities. Classroom instruction and field trips to various sections in a clinical laboratory: hematology, clinical chemistry, diagnostic microbiology, immunohematology, serology, and molecular diagnostics.

MLS 3194  Clinical Genetics  
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085 AND BSC 1086 AND BSC 2010 AND CHM 2046

This course introduces the student to prokaryotic and eukaryotic genomes and their genetic analysis. The course will look at human disease and principles of inheritance as well as mechanisms of antibiotic resistance in bacteria. The course introduces methodologies used in clinical laboratories to evaluate disease.

MLS 3621  Clinical Biochemistry  
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210

The course is a first in a series of Clinical Chemistry courses for the Medical Laboratory Sciences student. The course is divided into 5 major sections. Nucleic acids, their composition and production; Carbohydrates, their composition and production; Lipids, their composition and function; Proteins, their composition and function. Each macromolecule section will include discussions about diseases associated with deficiencies or derangements. The methods section deals with principles of instrumentation used in the clinical laboratory, such as spectrophotometry, fluorescence, nephelometry, HPLC, electrophoresis, immunoassay, PCR, and mass spectroscopy.

**MGS-Math: General Finite Courses**

MGF 1106  Mathematics for Liberal Arts I  
3 sh (may not be repeated for credit)

Presents topics that illustrate both the aesthetic aspects and the practical applications of mathematics. Intended for students who require only general education mathematics courses. Major course topics: systematic counting, probability, statistics, history of mathematics, geometry, sets, logic. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

MGF 1107  Mathematics for Liberal Arts II  
3 sh (may not be repeated for credit)

Presents topics that supplement those in MGF 1106 needed by elementary teachers. Intended for students in elementary education. Major topics: number sets and properties, number theory, geometry, measurement, graphs--all taught within a problem solving approach. Meets General Education requirement in Mathematics. Meets Gordon Rule Theoretical Mathematics Requirement.

**MHF-Math: Hist Foundations Courses**

MHF 3202  Set Theory and Mathematical Logic  
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312*


MHF 3905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)
MLS 4191  Molecular Diagnostics
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063
Co-requisite: MLS 4191L
This course offers fundamentals of clinical diagnosis and management of disease by molecular biology laboratory methods. Two broad areas in the current state of the art will be addressed: molecular diseases/variants and molecular methods to diagnose and monitor disease. Disorders due to inherited or acquired molecular defects such as errors of metabolism, hemoglobinopathies, leukemia, and cystic fibrosis are discussed. Principles and procedures for the diagnosis and management of infectious diseases by molecular methods are also included. The discussion of molecular approaches to diagnosing and monitoring these diseases will span the conventional methods of PCR, gel electrophoresis and Southern Blotting to semi-automated methods of TMA, LCR and Real-time PCR. A survey of molecular diagnostic methods currently available in various sections of a clinical laboratory is included. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4191L  Molecular Diagnostics Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MLS 4625 AND MLS 4630
Co-requisite: MLS 4191
Methods for specimen collection and handling, contamination control, amplification and detection of genetic material from humans and microorganisms. Methodologies include conventional PCR, electrophoresis for DNA and proteins, real time PCR, densitometry, Southern Blot and Western Blot techniques. Material and Supply fee will be assessed. Equipment fee will be assessed. Permission is required.

MLS 4193C  Molecular Diagnostics for the MLT to MLS track
4 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063C
This course covers the fundamentals of clinical diagnosis and management of disease by molecular biology laboratory methods. Two broad areas in the current state of the art are 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. Students will perform virtual laboratory activities and interpret laboratory data. Permission is required.

MLS 4220  Urinalysis/Body Fluids I
1 sh (may not be repeated for credit)
Prerequisite: MLS 4220L
Co-requisite: MLS 4220
Teaches the entry level clinical laboratory scientist the physiology, routine testing and interpretation for the following body fluids: urine, cerebrospinal fluid, semen, sweat, serous fluids (peritoneal, pleural, pericardial, synovial), and dialysates. Correlation of lab findings to various disease conditions is stressed. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4220L  Urinalysis/Body Fluids I
1 sh (may not be repeated for credit)
Co-requisite: MLS 4220
Corresponding Lab for Urinalysis / Body Fluids I.

MLS 4221C  Urinalysis/Body Fluids for the MLT to MLS track
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085 AND BSC 1086
This course teaches 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. Students will perform virtual laboratory activities and interpret laboratory data. Permission is required.

MLS 4305  Hematology I
3 sh (may not be repeated for credit)
Prerequisite: PCB 2131
Co-requisite: MLS 4305L
Study of production, maturation and morphology of normal and abnormal human blood cells. Pathological changes in morphology, cytochemistry and distribution of cells in peripheral blood and bone marrow. Manual and automated methods for blood cell counts, hemoglobin measurement and other hematology parameters. Purpose, principle and clinical value of routine and special procedures. Quality control and quality assurance processes in a clinical hematology laboratory. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4305L  Hematology I Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4305
Corresponding lab for Hematology I.

MLS 4306C  Hematology for the MLT to MLS track
4 sh (may not be repeated for credit)
Prerequisite: BSC 1086 AND MLS 3194
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. Discussion and interpretation of 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. Correlation of lab findings to various disease conditions is stressed. Students will perform virtual laboratory activities and interpret laboratory data. Permission is required.
MLS 4334  Hemostasis and Thrombosis
1 sh (may not be repeated for credit)
Co-requisite: MLS 4334L
Role of blood vessels, platelets and coagulation factors in normal hemostasis. Platelet morphology and function, laboratory tests for evaluation of platelets, and platelet disorders. Study of coagulation factors, coagulation pathways, and inherited and acquired coagulation disorders. Normal fibrinolysis and disorders of fibrinolysis. Physiologic and pathologic coagulation inhibitors and their role in normal and abnormal hemostasis. Diagnosis and management of hemorrhagic diseases. Thrombotic disorders and their management by anticoagulant therapy and fibrinolytic therapy. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4334L  Hemostasis and Thrombosis Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4334
Corresponding lab for Hemostasis and Thrombosis.

MLS 4335C  Hemostasis and Thrombosis for the MLT to MLS track
3 sh (may not be repeated for credit)
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. Correlation of lab findings to various disease conditions is stressed. Students will perform virtual laboratory activities and interpret laboratory data. Permission is required.

MLS 4460  Diagnostic Microbiology I
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020/L
Co-requisite: MLS 4460L
Study of bacteria associated with infectious diseases. Includes microbial taxonomy, physiology, genetics and host-parasite relationships as they apply to clinical microbiology. Pathogens of particular organ systems, pathogenesis of infectious disease, clinical manifestations, etiology and epidemiology of disease are covered. Interpretation of test results and clinical relevance are taught utilizing case studies. Permission is required. Equipment Fee will be assessed.

MLS 4460L  Diagnostic Microbiology I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: MCB 3020/L
Co-requisite: MLS 4460
Methods for specimen collection, handling and processing of human tissues and body fluids for isolation and identification of bacteria. Conventional and rapid identification methods for clinically significant bacteria, principles of automation, susceptibility testing, infection control, and quality assurance procedures are included. Material and supply fee will be assessed. Permission is required.

MLS 4461C  Diagnostic Microbiology for the MLT to MLS track
4 sh (may not be repeated for credit)
Prerequisite: MLS 3020
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. Students will perform virtual laboratory activities and interpret laboratory data. Permission is required.

MLS 4462  Medical Microbiology
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020/L
Co-requisite: MLS 4462L
Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4462L  Medical Microbiology Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4462
Corresponding lab for Medical Microbiology.

MLS 4463C  Medical Microbiology for the MLT to MLS track
4 sh (may not be repeated for credit)
Prerequisite: MCB 3020
Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. Students will perform virtual laboratory activities to identify parasites, fungi, and to interpret laboratory data. Permission is required.

MLS 4505  Clinical Immunology
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063
Co-requisite: MLS 4505L
The course is divided into 3 major sections. The immune system and its components, complement, antibody and antigens, cellular and humoral immunity are described. Immune-mediated diseases, such as AIDS, Hemolytic Disease of the Newborn and Lupus Erythematosus are discussed. Diseases that are diagnosed using serologic methods, such as syphilis, infectious mononucleosis, and measles are discussed. Current methodologies used in the medical serology and immunodiagnostic laboratory are introduced. Permission is required.

MLS 4505L  Clinical Immunology Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4505
The laboratory section is a co-requisite to Clinical Immunology. The course reinforces laboratory safety and sample collection and processing, and gives the student practical experience using serologic and immunologic techniques, such as agglutination, precipitation, immunofluorescence, ELISA, and antibody elution and detection methods. Material and Supply Fee will be assessed. Equipment Fee will be assessed. Permission is required.
MLS 4506C Clinical Immunology for the MLT to MLS track
4 sh (may not be repeated for credit)
Prerequisite: MLS 3194 AND MLS 3621
The course is divided into 3 major sections. The immune system and its components, complement, antibody and antigens, cellular and humoral immunity are described. Immune-mediated diseases, such as AIDS, Hemolytic Disease of the Newborn and Lupus Erythematosus are featured. Diseases that are diagnosed using serologic methods, such as syphilis, infectious mononucleosis, and measles are discussed. Current methodologies used in the medical serology and immunodiagnostic laboratory are reviewed. Students will perform virtual laboratory activities and interpret serologic and immunologic results, such as agglutination, precipitation, immunofluorescence, ELISA, and antibody elution and detection methods. Permission is required.

MLS 4550 Immunohematology I
3 sh (may not be repeated for credit)
Co-requisite: MLS 4550L
Fundamentals of blood group immunology. Pre-transfusion testing of patient blood and donor blood for compatibility. Antigens, antibodies and their properties in clinically significant blood group systems. ABO & RH typing, compatibility testing and special tests. Antibody screen and identification. Autoimmune Hemolytic Anemia and Hemolytic Disease of the Newborn. Transfusion therapy, hazards of transfusion and investigation of transfusion reactions. Donor selection, collection of donor blood and testing for infectious agents. Preparation, storage and utilization of blood components. Regulations, medico-legal and ethical aspects of transfusion services. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4550L Immunohematology I Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4550
Corresponding lab for Immunohematology I.

MLS 4552C Immunohematology for the MLT to MLS track
4 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063

MLS 4625 Clinical Chemistry I
2 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: MLS 4625L
Introduction to the basic principles and procedures of clinical chemistry. Lecture and lab devoted to chemical analysis of blood and other bodily fluids. Lab safety, specimen collection/handling/storage; lab mathematics, basic lab instrumentation and automation, data management, reference range determination and quality control monitoring will be stressed throughout the course. This class will discuss the pathophysiology and diagnostic testing related to the metabolism of carbohydrates and lipids, assessments of diabetes and diabetic risk, assessments of cardiac risk and monitoring and prognosis following myocardial infarction. Methodologies discussed include spectrophotometry, immunodiagnostics and computer generated analyses. Students will participate in class discussions about recent research in clinical chemistry which will be presented in the forms of abstracts, research papers and figures. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4625L Clinical Chemistry I Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4625
Lab devoted to the chemical analysis and interpretation of blood and other bodily fluids. Selected experiments in diabetes and cardiovascular disease risk assessment and monitoring. Safety, instrumentation and quality control will be stressed. Methodologies discussed include spectrophotometry, immunodiagnostics, and computer generated analyses. Material and Supply fee will be assessed. Permission is required.

MLS 4626C Clinical Chemistry I for the MLT to MLS
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND CHM 2210
Review of the basic principles and procedures of clinical chemistry. Lecture and case studies 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. Students will perform virtual laboratory activities and to interpret laboratory data. Permission is required.
MLS 4630  Clinical Chemistry II  
2 sh (may not be repeated for credit)  
Prerequisite: MLS 4625/L  
Co-requisite: MLS 4630L  
This course continues where Clinical Chem I left off, discussing kidney function, electrolytes, blood gases, acid-base balance, mineral metabolism, enzyme measurement, liver function studies, and pancreatic function assessment. It also includes the more esoteric tests involved in testing endocrine function, therapeutic drug monitoring, toxicology, tumor markers, and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Reading and disseminating research in the discipline is emphasized in the format of a journal club. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4630L  Clinical Chemistry II Lab  
1 sh (may not be repeated for credit)  
Prerequisite: MLS 4625/L  
Co-requisite: MLS 4630  
This course covers laboratory procedures evaluating kidney and liver function, electrolytes, acid-base balance, mineral metabolism, enzyme measurements, toxicology and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Material and Supply fee will be assessed. Permission is required.

MLS 4631C  Clinical Chemistry II for the MLT to MLS  
3 sh (may not be repeated for credit)  
Prerequisite: MLS 4625  
This course continues where Clinical Chemistry 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.

MLS 4704  Clinical Management Portfolio for the MLT to MLS track  
3 sh (may not be repeated for credit)  
Fundamentals of clinical laboratory management, research and educational methodologies are covered. Students are introduced to clinical laboratory operations including financial and human resource management, marketing of laboratory services, communication with other health care professionals, laboratory information systems, research design and compliance with regulatory agencies. The student will provide evidence of adequate training or work experience in Hematology, Clinical Chemistry, Microbiology and Blood Bank equivalent to an MLS clinical internship and produce this in a professionally developed portfolio. The student will produce a professionally written case study that is suitable for publication. Meets Gordon Rule Writing Requirement.

MLS 4705  Special Clinical Topics  
1 sh (may not be repeated for credit)  
Fundamentals of clinical laboratory management, supervision and educational methodologies are covered. Students are introduced to clinical laboratory operations in areas of financial and human resource management, marketing of laboratory services, communications with other health care professionals, laboratory information systems and regulatory compliance with applicable regulatory agencies. Other special clinical topics related to education and training, lab safety, HIV / AIDS, prevention of medical errors, professional ethics and career planning are presented.

MLS 4820L  Clinical Chemistry III  
4 sh (may not be repeated for credit)  
Prerequisite: MLS 4625 AND MLS 4630  
Application of clinical chemistry principles and techniques presented in Clinical Chemistry I and II. Supervised practice in the hospital laboratory. Permission is required.

MLS 4821L  Diagnostic Microbiology II  
4 sh (may not be repeated for credit)  
Prerequisite: MLS 4460 AND MLS 4462  
Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MLS 4822L  Hematology II  
4 sh (may not be repeated for credit)  
Prerequisite: MLS 4305/L  
Application of Hematology I. Advanced practical training in automated hematology instrumentation, routine and special procedures in hematology lab, and practice of quality control methods, maintenance and trouble shooting of clinical hematology equipment. Training includes all aspects of clinical lab medicine in a modern hematology / coagulation lab and prepares the student to assume responsibility as a medical technologist. Permission is required.

MLS 4823L  Immunohematology II  
4 sh (may not be repeated for credit)  
Prerequisite: MLS 4550/L  
Continuation of Immunohematology I, at one of the affiliate hospitals. Advanced practical training in modern blood banking and transfusion services at the hospital. Training includes practice and performance, under supervision, of all the procedures involving pre-transfusion tests on patient's blood, selection of donor blood, compatibility determination, problem solving, release of suitable blood/blood components for transfusion therapy. Permission is required.

MLS 4824L  Special Clinical Methods  
2 sh (may not be repeated for credit)  
Supervised practice in a hospital laboratory. Special methods in clinical laboratory sciences, including non-routine (special) chemistry procedures and methods in immunodiagnostics, mycobacteriology and clinical mycology. Permission is required.

MLS 4825L  Urinalysis/Body Fluids II  
2 sh (may not be repeated for credit)  
Supervised practice in a hospital laboratory in the analysis of urine and other body fluids; techniques in parasitology and phlebotomy procedures. Permission is required.
where jobs are actually increasing. Media companies are cutting back in almost every area except sales, them for media selling and sales management jobs at a time when the principles of media selling and sales management become more important to the media industry. Introduces students to the 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-Mass Media Communications Courses

MMC 2000 Principles of Mass Communication
3 sh (may not be repeated for credit)

MMC 3261 Computer Mediated Communication
3 sh (may not be repeated for credit)
Examination of theoretical and practical issues emerging from the use of the Internet as a communication medium. Focus is on the legal, social, and ethical problems arising from the use of computers in communication. Students also acquire skills in creating content for the Web, and in critical analysis of Web sites. Applications of the Web for advertising, public relations and journalism are discussed. Basic familiarity with computer use and operating systems is required. Credit may not be received in MMC 3261 and MMC 3261C.

MMC 3601 Minorities and the Mass Media
3 sh (may not be repeated for credit)
Concerns of mass media as they pertain to minority issues; review of mass media portrayals of minorities; problems of minority access to mass media; prospects for mass media and cultural diversity in the 21st Century. Meets Multicultural Requirement.

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

MMC 4201 The Constitution and the Press
3 sh (may not be repeated for credit)
Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions.

MMC 4203 Media Ethics
3 sh (may not be repeated for credit)
Introduces students to classical ethical philosophies; presents various ethical decision-making strategies; application of ethical models to information-gathering and dissemination dilemmas; helps students form an ethical framework for future positions of responsibility in mass media industries; introduces students to the case method of instruction.

MMC 4252 Media Sales
3 sh (may not be repeated for credit)
The convergence of new and old technologies will redefine past concepts of the media. In this new, digital, interactive, high-cost, highly fragmented, and highly competitive media world, generating revenue is a top priority for survival. Sales people and sales managers have become more important to the media industry. Introduces students to the principles of media selling and sales management and prepares them for media selling and sales management jobs at a time when media companies are cutting back in almost every area except sales, where jobs are actually increasing.

MMC 4300 Global Communication
3 sh (may not be repeated for credit)
Study of comparative mass media systems (telecommunication, film and print media) and related problems and issues of culture, national development, foreign policy, national sovereignty, regulation and policy, information flow, propaganda, human rights and global trends in telecommunication. Offered concurrently with MMC 5306; graduate students will be assigned additional work. Senior standing is required. Meets Multicultural Requirement.

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

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

MSL-Military Sci Leadership Courses

MSL 1001 Introduction to the Army
2 sh (may not be repeated for credit)
Introduces Cadets to the personal challenges and competencies that are critical for effective leadership. Cadets learn how the personal development of life skills such as critical thinking, time management, goal setting, stress management, and comprehensive fitness relate to leadership and the Army profession. The focus is on developing basic knowledge and comprehension of Army leadership dimensions while gaining a big picture of understanding the Reserve Officers’ Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Physical training is required three days a week.

MSL 1002 Foundations of Agile and Adaptive Leadership
2 sh (may not be repeated for credit)
Course introduces Cadets to the personal challenges and competencies that are critical for adaptive leadership. Cadets learn the basics of the communications process and the importance for leader? s to develop the essential skills to effectively communicate in the Army. Students will examine the Army Profession and what it means to be a professional in the U.S. Army. The overall focus is on developing basic knowledge and comprehension of Army leadership while gaining a big picture of understanding the Reserve Officers? Training Corps (ROTC) program, its purpose in the Army, and its advantages for the student. Physical training is required three days a week.

MSL 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MSL 2101 Leadership and Decision Making
2 sh (may not be repeated for credit)
The course is primarily drawn from the Adaptability - Army Learning Area (ALA). The outcomes are demonstrated through critical and creative Thinking and the ability to apply Troop Leading Procedures(TLP). Comprehension of the officer? s role in Leading Change by applying innovative solutions to problems in concert with the Principles of Mission Command. The Army Profession is also stressed through leadership forums and a leadership self-assessment. Students are then required to apply their knowledge outside the classroom in a hands-on performance-oriented environment during Leadership LABs. Physical fitness training is required three days a week.
MSL 2102 Army Doctrine and Team Development
2 sh (may not be repeated for credit)

Cadets begin to understand and demonstrate Cross-Cultural Competencies as they relate to Army doctrine and how they apply in a combatant commander’s Engagement Strategies, Army Values, Teamwork, and Warrior Ethos and their relationship to the Law of Land Warfare and philosophy of military service are also stressed. The ability to lead and follow is also covered through Team Building exercises in small units up to squad level. Cadets practice and enhance their leadership abilities in labs and other battalion leadership opportunities. Through Leadership Labs, Cadets develop and demonstrate an understanding and ability to perform basic land navigation, troop-leading, and squad and platoon tactical operations. By the end of the Basic Course, Cadets should possess a basic understanding of how to effectively communicate both orally and in writing, the Army as an organization and as a profession. The design of the lessons is to maximize Cadet participation, inspire intellectual curiosity, stimulate self-study, and encourage Cadets to contract. Physical fitness training is required three days a week.

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

MSL 3201C Training Management & the Warfighting Functions
3 sh (may not be repeated for credit)
Prerequisite: MSL 1001 AND MSL 1002 AND MSL 2101 AND MSL 2102

Course focuses on the Professional Competence Army Attribute. This includes introduction to squad/platoon tactical operations using troop leading procedures and battle drills to achieve the assigned mission within the commander's intent. Through the introduction of the Leadership Lab Practicum the Cadets learn to plan, resource, and execute training of subordinates within the Leadership Labs. This experience gives the Cadet the opportunity to work on their teamwork and leadership skills in a hands-on performance-oriented environment. Physical fitness training three days per week. One of the following is required to take this course. Completion of the Basic Course - MSL 1001/1002 and 2101/2102. Completion of Basic Camp (4 Week Summer Camp), Completion of 4 Years of Junior ROTC or Prior Service members who have completed Basic and Advance Individual Training or service equivalent.

MSL 3202C Applied Leadership in Small Unit Operations
3 sh (may not be repeated for credit)
Prerequisite: MSL 1001 AND MSL 1002 AND MSL 2101 AND MSL 2102

Course balances Adaptability and Professional Competencies building on the tactical lessons in order to familiarize the Cadet with materials that they can expect to execute during Cadet Summer Training. Adaptability concepts introduced include analysis of complex problems, creating solutions that exhibit agile and adaptive thinking, analysis of the situational environment and formulation of solutions to tactical and organizational problems. Physical fitness training three days per week. One of the following is required to take this course. Completion of the Basic Course - MSL 1001/1002 and 2101/2102, Completion of Basic Camp (4 Week Summer Camp), Completion of 4 Years of Junior ROTC or Prior Service members who have completed Basic and Advance Individual Training or service equivalent.

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

MSL 4301C The Army Officer
3 sh (may not be repeated for credit)
Prerequisite: MSL 3201C AND MSL 3202C

The Army Officer is a practical application of adaptive leadership focused on the dynamics of leading in complex situations of current military operations and preparing Senior Cadets for their future service as Second Lieutenants and Army Officers. Throughout the semester, students are assigned the duties and responsibilities of an Army staff officer and must apply the Army Training Management System, the Army writing style, and the Military Decision Making Process (MDMP) to execute the approved training plan. During weekly training meetings, Cadets will plan, execute, and assess Argonaut Battalion training and associated events. Cadets will study how Army values and leader ethics are applied in the Contemporary Operating Environment and how these values and ethics are relevant to everyday life. In addition, Cadets are assigned a variety of leadership positions and will be given numerous opportunities to train, mentor, and evaluate underclass students enrolled in the ROTC program while being mentored and evaluated by experienced ROTC Cadre. Physical Training three days per week.

MSL 4302C Company Grade Leadership
3 sh (may not be repeated for credit)
Prerequisite: MSL 3201C AND MSL 3202C

Exploration of the dynamics of leading in the complexity of warfare while understanding the fundamentals of Decisive actions in support of Unified Land Operations. Examine the Art of Command and how to properly communicate with your NCOs and Soldiers in addition to how to better develop others. Cultural Awareness and Cultural Property Protection will focus on numerous situations and how ethical decisions impact personnel and the unit mission. Through the understanding of your roles and responsibilities, you will learn how Army programs can assist you in preparing Soldiers and their Families stress reduction and management during times of uncertainty. The course places significant emphasis on preparing you for follow-on training and your first unit of assignment. Physical training three days per week.

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

MTG-Math: Topology Geometry Courses

MTG 3203 Elementary Geometry
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105

A basic course that presents a variety of geometry topics using hands-on strategies. Students will employ paper-pencil, straight edge and compass, and the computer to solve problems related to polygons, lines, angles, circles, area, volume, similarity, and the Pythagorean theorem. Recommended for elementary / middle level Education majors. Math majors may not use this course to fulfill major requirements.

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

MTG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MTG 6348  Point set and algebraic topology
3 sh (may not be repeated for credit)
An introduction to the fundamental concepts of point set and algebraic topology. Topics covered include separation axioms, compactness, connectivity, completeness, simplicial topology, and homotopy. Applications to modern analysis and to the solution to classical geometrical problems. Must complete Abstract Algebra or have permission of instructor.

MUC-Music:Composition Courses

MUC 4200  Introduction to Music Composition
2 sh (may not be repeated for credit)
Prerequisite: MUT 3611 AND MUT 4311
This course is a progressive exploration of a variety of compositional techniques, repertoire, concepts, and aesthetics from the recent past. The course provides students interested in composition with the basic tools needed to compose effectively in contemporary idioms.

MUE- Music Courses

MUE 2040  Introduction to Music Teaching
2 sh (may not be repeated for credit)
A foundation course for potential music educators. An overview of the music education profession and its relationship to mainstream education issues; includes 10 hours of initial observations/participation in local school classrooms. Permission is required.

MUE 3210  Music for the Elementary School Teacher
2 sh (may not be repeated for credit)
Overview of music program for elementary children. Music methods and instructional materials for elementary music program through activities in singing, listening, playing and moving to music. No previous experience in music necessary. Material and supply fee will be assessed.

MUE 3311  Methods for the Elementary School Music Teacher
2 sh (may not be repeated for credit)
How to teach music in the elementary school. Includes "how to" instruction in teaching general music and how to begin and maintain an elementary choral program. For music majors only.

MUE 3312  Kodaly Method
3 sh (may not be repeated for credit)
Presents specific suggestions for teaching music to pre-K and elementary school students, based on the Kodaly Method as practiced in the United States, Canada and Hungary. Offering background material, general ideas, and specific techniques, will train students to utilize the Kodaly concepts effectively, even if they have not had previous experience with this speech.

MUE 3413  Chamber Music Coaching
0-1 sh (may be repeated for up to 4 sh of credit)
This class is designed to teach music students how to play chamber music and how to coach and work with different chamber groups.

MUE 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: MUE 2040 AND MUE 3311
The organization and administration of general, choral, and instrumental music in middle and high schools. Permission is required.

MUE 4343  String Methods and Materials
2 sh (may not be repeated for credit)
Designed to teach Music Ed majors how to begin and implement a string program in the school system. It includes strategies for teaching strings in group settings.

MUE 4411  Special Methods/Choral Techniques
2 sh (may not be repeated for credit)
Problems related to choral conducting with practical application of applicable choral techniques at all levels, elementary through high school. Includes choral and full score study, repertoire for various levels and observations in the public schools of choral music classes.

MUE 4451  Woodwind Instrument Methods and Materials
2 sh (may not be repeated for credit)
Woodwind instruments, playing techniques, reed making techniques, instrument maintenance, history methodology, pedagogy, literature for solo and ensemble experiences. Observations of representative public school programs of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4465  Brass Instrument Methods and Materials
2 sh (may not be repeated for credit)
Brass instrument playing techniques, pedagogy, literature and materials. Required of students in music teaching track.

MUE 4475  Percussion Methods and Materials
2 sh (may not be repeated for credit)
Percussion instruments, playing techniques, history, methodology, pedagogy and literature for solo and ensemble experiences. Observations of representative public school programs required of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4493  Special Methods/Instrumental Techniques
2 sh (may not be repeated for credit)
Prerequisite: MUT 4311
Problems in organization and administration of school instrumental groups at all levels, elementary through high school including marching bands, jazz bands, and band parent organizations. Advanced conducting of instrumental music; study of baton techniques and score analysis; practical applications to performance. Observation of music programs in public schools with emphasis on large and small performing ensembles.

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

MUE 4940  Music Education Internship
9 sh (may not be repeated for credit)
Music Education Internship is a semester long course allowing the student the opportunity to intern in the local school system under the supervision of an experienced music teacher in their area of study. The student is advised not to take other classes or pursue employment during the semester of internship. Internship assignments will be made by the Music Education Coordinator and will be limited to the Pensacola area. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

MUE 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
MUH-Music: Conducting Courses

MUG 2101 Conducting
2 sh (may not be repeated for credit)

Applied conducting of vocal and instrumental music; basic concepts and practices of conducting of simple and complex meters; study of baton technique and score analysis; practical applications to performance.

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

MUH-Music: History/Musicology Courses

MUH 2030 Women in Popular Music
3 sh (may not be repeated for credit)

An exploration of the rich heritage of 20th and 21st century iconic popular female performers and song-writers. The primary focus of this class will be to examine how the lives and musical output of female musicians were influenced by major historical events throughout the modern era such as World War I and II, the suffrage movement, the women's liberation movement and other events leading up to current times. Includes detailed studies of legendary female musicians such as Ella Fitzgerald, Edith Piaf, Barbra Streisand, Dolly Parton and Lady Gaga.

MUH 2513 Music in World Cultures
2 sh (may not be repeated for credit)

This course explores a variety of Non-Western musical styles found in cultural, social and/or political contexts. Students will be introduced to specific music traditions and will learn to write critically about music as it relates to society and culture. The course will examine music traditions from various parts of the world including Latin America, Africa, the Middle East, and Asia.

MUH 2930 The Music Experience: Special Topics
3 sh (may not be repeated for up to 9 sh of credit)

With a non-traditional and multi-cultural approach, specific topics in music are offered each semester. Topics vary each semester but include such areas as Latin American Music, Jazz, Eastern European Music, Music of the Far East, etc. Consult the current course bulletin for semester topic. Meets General Education requirement in Humanities. Meets Multicultural Requirement.

MUH 3211 History of Western Music I: End of Ancient World Through 17th Century
3 sh (may not be repeated for credit)

First of two courses designed to increase student's understanding of history and literature of music. Music in Western Civilization from and of ancient world through 17th century. Three hours per week. Listening assignments in Music Listening Library. Meets Gordon Rule Writing Requirement.

MUH 3212 History of Western Music II: 18th through 20th Centuries
3 sh (may not be repeated for credit)

Continuation of music history and literature sequence. Vocal and instrumental idioms of 18th-20th centuries emphasizing works of major composers. Meets Gordon Rule Writing Requirement.

MUH 3551 Band and Wind Literature
2 sh (may not be repeated for credit)

Prerequisite: MUH 3211* AND MUT 3611*

Overview of Symphonic Band and small chamber wind ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUH 3602 Vocal Literature
2 sh (may not be repeated for credit)

Prerequisite: MUH 3211* AND MUT 3611*

Overview of solo vocal literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of solo song, its significant composers, forms and styles from the Renaissance to the present in the four major singing languages; French, German, Italian, and English. Permission is required.

MUH 3662 Film Music
3 sh (may not be repeated for credit)

Surveys the importance of music in films, perhaps the most important entertainment and artistic medium of the 20th century. The material will progress from the silent film era to the present day. Students will learn the basics of filmmaking, the important basic musical elements (melody, rhythm, harmony, etc.) and how composers use them in film scoring.

MUH 3801 Jazz History
3 sh (may not be repeated for credit)

Will explore the rich heritage in Jazz from its roots in ragtime to the present day. Includes detailed studies of some of the great jazz musicians such as Duke Ellington, Count Basie, Ella Fitzgerald, Glen Miller, etc.

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

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

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

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

MUL-Music: Literature Courses

MUL 2010 Music Appreciation
3 sh (may not be repeated for credit)

Musical perspectives within Western civilization. Designed to express the correlation of music, art, and literature in Western culture. Special emphases include the nature of music, both past and present, and music as reflection / expression of society's vital activities. Credit cannot be earned in both MUH 2110 and MUL 2110. Meets General Education requirement in Humanities. Meets Multicultural Requirement.

MUL 3503 Symphonic and String Literature
2 sh (may not be repeated for credit)

Prerequisite: MUH 3211* AND MUT 3611*

Overview of Orchestral and small string ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3551 Band and Wind Literature
2 sh (may not be repeated for credit)

Prerequisite: MUH 3211* AND MUT 3611*

Overview of Symphonic Band and small chamber wind ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3602 Vocal Literature
2 sh (may not be repeated for credit)

Prerequisite: MUH 3211* AND MUT 3611*

Overview of solo vocal literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of solo song, its significant composers, forms and styles from the Renaissance to the present in the four major singing languages; French, German, Italian, and English. Permission is required.
Supply Fee will be assessed.

with prior orchestral experience. Permission is required. Material and literature of the past and present. The orchestra is open to all majors

0-1 sh (may be repeated for up to 18 sh of credit)

MUN 3213  Advanced Symphony Orchestra

assessed.

instrumental experience required. Material and Supply Fee will be assessed.

freshman / sophomore level only. Material & Supply Fee will be assessed.

MUN 1360  Chamber Choir

1 sh (may be repeated indefinitely for credit)

Select mixed choral ensemble performing a cappella and chamber music. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman / sophomore level only. Material and Supply Fee will be assessed.

MUN 2210  Symphony Orchestra

1 sh (may be repeated indefinitely for credit)

A college level orchestra which performs great literature of the past and present. Open to all majors with prior orchestral experience. Permission / audition is required. Material and Supply Fee will be assessed.

MUN 2905  Directed Study

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

MUN 3133  The University of West Florida Symphonic Band

0-1 sh (may be repeated indefinitely for credit)

Group of wind and percussion instrumentalists. Open to all qualified students. Interested students should contact the music office. Previous instrumental experience required. Material and Supply Fee will be assessed.

MUN 3213  Advanced Symphony Orchestra

0-1 sh (may be repeated for up to 18 sh of credit)

Symphony Orchestra is a college level orchestra which performs great literature of the past and present. The orchestra is open to all majors with prior orchestral experience. Permission is required. Material and Supply Fee will be assessed.

MUN 3313  UWF Singers

0-1 sh (may be repeated indefinitely for credit)

SATB chorus preparing for performances throughout the year. This class is open to all students by audition. Students enrolled in the course must display the skills necessary to participate in a choir. Previous choral experience is preferred, but not necessary. Students must have a basic understanding of the voice, ability to match and regenerate pitches, and have some level of music-reading skills. Admittance of students in this course is based on this criteria and left to the discretion of the director.

MUN 3363  Advanced Chamber Choir

0-1 sh (may be repeated indefinitely for credit)

Select mixed choral ensemble performing a cappella and chamber music. Open to all students by audition. Rehearsals according to schedule. Previous choral experience required. For junior and senior levels only. Material and Supply Fee will be assessed.

MUN 3443  Percussion Ensemble

0-1 sh (may be repeated for up to 8 sh of credit)

The percussion ensemble will rehearse and perform a variety of music: music from South America, the Caribbean, Africa and the Middle East that features percussion Approval of instructor, possible audition to demonstrate an understanding of performance technique and sight reading skills.

MUN 3483  Guitar Ensemble

0-1 sh (may be repeated for up to 10 sh of credit)

The UWF Guitar Ensemble is a performing instrumental organization which meets on a regular basis for rehearsals and performs often for community groups, college functions, and local schools and clubs. Required of guitar performance majors. Open to all majors. Permission required. Material and Supply Fee will be assessed.

MUN 3713  Jazz Combo

0-1 sh (may be repeated indefinitely for credit)

Performance oriented small group of various sizes. Literature and instrumentation are based upon student and departmental needs. Material and Supply Fee will be assessed.

MUN 3905  Directed Study

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

MUN 4411  String Quartet

0-1 sh (may be repeated for up to 8 sh of credit)

An ensemble to explore the vast literature in the string quartet genre. May be expanded by an additional instrument for certain works. Material and Supply Fee will be assessed.

MUN 4714  UWF Jazz Ensemble

0-1 sh (may be repeated indefinitely for credit)

Standard jazz ensemble instrumentation. Opened to qualified students depending on needed instrumentation. Material and Supply Fee will be assessed.

MUN 4905  Directed Study

1-12 sh (may be repeated indefinitely for credit)
MUO-Music: Opera/Mus Theatre Courses

MUO 3503 Advanced Opera Studio
1 sh (may be repeated indefinitely for credit)
Study of the techniques of characterization, dramatic analysis, and ensembles singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a series of opera scenes recitals. Audition and permission required. Open to junior and senior levels only.

MUO 4504 Opera Workshop
3 sh (may be repeated for up to 12 sh of 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.

MUR-Music: Church Courses

MUS-Music Courses

MUS 2241 Diction for Singers I: Italian
1 sh (may not be repeated for credit)
Study of stage pronunciation and enunciation in Italian with comparisons made to the sound in English, and utilizing the International Phonetic Alphabet.

MUS 2360 Music Technology
2 sh (may not be repeated for credit)
Prerequisite: MUT 2116
Designed to equip music students with the technological skills necessary and ongoing for the application of music software in all venues. Major emphasis on working knowledge of mainstream software and its applications in music composition, education and performance. Freshman and sophomore theory requirements are needed. Material and supply fee will be assessed.

MUS 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: MUT 2276
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUS 3253 Diction for Singers II: French/German
1 sh (may not be repeated for credit)
Prerequisite: MUS 2241
Study of stage pronunciation and enunciation in French and German with comparisons made to the sounds in English, and utilizing the International Phonetic Alphabet. Student must be enrolled in applied voice either on the major or minor level.

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

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

MUT-Music: Theory Courses

MUT 1111 Freshman Theory
3 sh (may not be repeated for credit)
Co-requisite: MUT 1271
Basic fundamentals of music theory, including meter and rhythm, tonic, dominant and sub dominant harmony, cadences, major and minor tonality, and inverted triads. Required of all students majoring in music; non-music majors must have departmental permission.

MUT 1112 Freshman Theory II
3 sh (may not be repeated for credit)
Prerequisite: MUT 1111 AND MUT 1271
Co-requisite: MUT 1272
Continuation of MUT 1111, including non-harmonic tones, secondary triads, principles of chord progressions, use of harmonic sequence, primary seventh chords and secondary dominants.

MUT 1271 Freshman Theory Lab
1 sh (may not be repeated for credit)
Co-requisite: MUT 1111
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 1272 Freshman Theory II Lab
1 sh (may not be repeated for credit)
Co-requisite: MUT 1112
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUT 2116 Sophomore Theory
3 sh (may not be repeated for credit)
Prerequisite: MUT 1112 AND MUT 1272
Co-requisite: MUT 2276
Continuation MUT 2116, including augmented sixth chords, the neopolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.

MUT 2117 Sophomore Theory II
3 sh (may not be repeated for credit)
Prerequisite: MUT 2116 AND MUT 2276
Co-requisite: MUT 2277
Continuation MUT 2116, including augmented sixth chords, the neopolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.

MUT 2276 Sophomore Theory I Lab
1 sh (may not be repeated for credit)
Prerequisite: MUT 1272
Co-requisite: MUT 2116
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2277 Sophomore Theory II Lab
1 sh (may not be repeated for credit)
Prerequisite: MUT 2276
Co-requisite: MUT 2117
Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2361 Jazz Fundamentals I
2 sh (may not be repeated for credit)
Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition, Chord type and related scales, chord progressions, memorization, and listening are covered. Open to all majors.

MUT 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MUT 3401  Techniques of Counterpoint
2 sh (may not be repeated for credit)
Linear writing through species counterpoint and comparison with 16th
and 18th century musical idioms. Two years of music theory required.

MUT 3611  Musical Structure and Style
2 sh (may not be repeated for credit)
Systematic analysis of 17th, 18th, 19th and 20th century music, with
emphasis upon structural designs and stylistic trends. Two years of
music theory required.

MUT 3671  Jazz Improvisation I
2 sh (may not be repeated for credit)
Provides the musician basic theoretical knowledge and practice
methods necessary for jazz improvisation and composition. Chord
types and related scales, chord progressions, summarization, and
listening are covered. Credit may not be received in both MUT 3671
and MUT 3641.

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

MUT 4311  Instrumentation
2 sh (may not be repeated for credit)
Use of, and writing for, orchestral and band instruments;
characteristics and capabilities of each. Instruments studied
individually, small groups and as members of full ensemble. Two years
of college theory required.

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

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

**MVB-Applied Music: Brasses Courses**

**MVB 1311**  Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 1312**  Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 1313**  Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 1314**  Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 1315**  Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 2321**  Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music
majors of sophomore-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 2322**  Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music
majors of 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 sh of credit)
Individual instruction in applied music in trombone. Primarily for music
majors of sophomore-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 2324**  Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music
majors of sophomore-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 2325**  Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music
majors of sophomore-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 3321**  Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music
majors of junior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

**MVB 3322**  Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music
majors of junior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.
MVB 3333   Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music
majors of junior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 3334   Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music
majors of junior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 3335   Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music
majors of junior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 3970   Junior Recital - Brass
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization
music degree must present at least one-half of a public recital. Permission
to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of
3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVB 4341   Applied Music Trumpet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music
majors of senior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 4342   Applied Music Horn
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in horn. Primarily for music
majors of senior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 4343   Applied Music Trombone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trombone. Primarily for music
majors of senior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 4344   Applied Music Euphonium
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in euphonium. Primarily for music
majors of senior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 4345   Applied Music Tuba
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in tuba. Primarily for music
majors of senior-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVB 4971   Senior Recital - Brass
1-3 sh (may not be repeated for credit)
Prior to graduation all students seeking a music degree must present
a complete public recital. Permission to give a recital is secured from
students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

**MVK-Applied Music: Keyboard Courses**

MVK 1111   Class Piano I
1 sh (may be repeated for up to 8 sh of credit)

To equip the music major with functional piano skills which correlate
with those skills accomplished in Music Theory. Prepares student for
piano proficiency exam.

MVK 1112   Class Piano II
1 sh (may be repeated for up to 8 sh of credit)
Prerequisite: MVK 1111

To equip the music major with functional piano skills which correlate
with those skills accomplished in Music Theory. Prepares student for
piano proficiency exam. Placement / audition may substitute for prerequisite.

MVK 1115   Keyboard Skills
1 sh (may not be repeated for credit)

Development of functional skills at the keyboard. Open only to music
majors.

MVK 1311   Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in piano. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVK 1313   Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in organ. Primarily for music
majors of freshman-level standing. Open to others for credit if a music
course or ensemble is taken concurrently and faculty schedules permit.

MVK 2121   Class Piano III
1 sh (may not be repeated for credit)
Prerequisite: MVK 1112

To equip the music major with functional piano skills which correlate
with those skills accomplished in Music Theory. Prepares 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 sh of credit)

Individual instruction in applied music organ. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2321  Performance: Keyboards
2-3 sh (may be repeated for up to 6 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2421  Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music piano. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2422  Applied Music Harpsichord
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3331  Performance: Keyboards
3 sh (may be repeated for up to 6 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3333  Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3431  Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music piano. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3432  Applied Music Harpsichord
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3702  Accompanying Coaching Class
2 sh (may not be repeated for credit)
Prerequisite: MVK 1311 AND MVK 2421

Designed to equip the pianist with basic skills in accompanying vocalists, instrumentalists, and choral groups. Emphasis on listening techniques related to vocal, instrumental, and choral literature. Two years of applied piano and permission is required.

MVK 3720  Collaborative Piano (Vocal)
3 sh (may be repeated for up to 9 sh of credit)

Through the study of representative works from the Piano/Vocal repertoire, students will learn the necessary skills for a successful collaboration. Among others, issues of balance, tempo, score preparation, rehearsal techniques, learning techniques will be discussed. This is a performance based course in which piano/vocal duos will be assigned for in-class performances. Students will be coached and critiqued by their professor and colleagues in a master class format.

MVK 3721  Collaborative Piano (Instrumental)
3 sh (may be repeated for up to 9 sh of credit)

Through the study of representative works from the Piano/Instrumental repertoire, students will learn the necessary skills for a successful collaboration. Among others, issues of balance, tempo, score preparation, rehearsal techniques, learning techniques will be discussed. This is a performance based course in which piano/instrumental duos will be assigned for in-class performances. Students will be coached and critiqued by their professor and colleagues in a master class format.

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

MVK 3970  Junior Recital - Keyboards
1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 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 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4343  Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4441  Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied music piano. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4442  Applied Music Harpsichord
2-3 sh (may be repeated for up to 9 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4641  Piano Pedagogy
2 sh (may not be repeated for credit)

Comparison of various published piano methods; application of these methods and other techniques of teaching beginning student to most advanced level. Required of all piano majors.
MVK 4704 Accompanying: Instrumental Literature
2 sh (may 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 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
MVK 4932 Piano Interpretation
2 sh (may not be repeated for credit)
Study and comparison of interpretations of piano music by means of written treatises, recorded examples and demonstration. Required of all piano majors. Junior level standing and permission is required.

MVK 4942 Accompanying Internship I
2 sh (may not be repeated for credit)
Prerequisite: MVK 1311 AND MVK 2421
An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Two years of applied piano and permission is required.

MVK 4943 Accompanying Internship II
2 sh (may not be repeated for credit)
Prerequisite: MVK 4942
An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Permission is required.

MVK 4971 Senior Recital - Keyboards
1-3 sh (may not be repeated for credit)
Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from the 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.

MVP 4341 Applied Music Percussion
2-3 sh (may be repeated for up to 6 sh of credit)
Performance majors only.

MVS-Applied Music: Strings Courses
MVS 1311 Applied Music Violin
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in violin. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP-Applied Music: Percussion Courses
MVP 1311 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2321 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2421 Performance: Percussion
2 sh (may be repeated for up to 6 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3970 Junior Recital - Percussion
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVP 4341 Applied Music Percussion
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 4971 Senior Recital - Percussion
1-3 sh (may not be repeated for credit)
Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students’ applied teacher at least eight weeks prior to a scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.
MVS 1312   Applied Music Viola
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in viola. Primarily for music majors of 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 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 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 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 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 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 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 sh of credit)
Individual instruction in applied music in bass. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2326   Applied Music Guitar
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in guitar. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3331   Applied Music Violin
2-3 sh (may be repeated for up to 9 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 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 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 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 3335   Applied Music Guitar
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in guitar. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3970   Junior Recital - Strings
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVS 4341   Applied Music Violin
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in violin. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4342   Applied Music Viola
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in viola. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4343   Applied Music Cello
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in cello. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVV 4441 Applied Music Voice
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in voice. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4442 Applied Music Bass
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bass. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4443 Applied Music Guitar
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in guitar. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4444 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bassoon. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4445 Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in clarinet. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4446 Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in oboe. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4447 Applied Music Viola
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in viola. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4448 Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in flute. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4449 Applied Music Piano
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in piano. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4450 Applied Music Organ
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in organ. Primarily for majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4451 Performance: Voice
3 sh (may not be repeated for credit)
Individual instruction in applied music in voice. 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 4452 Performance: Bass
3 sh (may not be repeated for credit)
Individual instruction in applied music in bass. 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 4453 Performance: Bassoon
3 sh (may not be repeated for credit)
Individual instruction in applied music in bassoon. 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 4454 Performance: Clarinet
3 sh (may not be repeated for credit)
Individual instruction in applied music in clarinet. 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 4455 Performance: Oboe
3 sh (may not be repeated for credit)
Individual instruction in applied music in oboe. 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 4456 Performance: Viola
3 sh (may not be repeated for credit)
Individual instruction in applied music in viola. 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 4457 Performance: Flute
3 sh (may not be repeated for credit)
Individual instruction in applied music in flute. 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 4458 Performance: Piano
3 sh (may not be repeated for credit)
Individual instruction in applied music in 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.

MVV 4459 Performance: Organ
3 sh (may not be repeated for credit)
Individual instruction in applied music in organ. 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 4460 Performance: General Music
3 sh (may not be repeated for credit)
Individual instruction in applied music in general music. 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-Applied Music: Woodwinds Courses

MVW 1311 Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in flute. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1312 Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in oboe. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1313 Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in clarinet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1314 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bassoon. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW-Applied Music: Woodwinds Courses

MVW 1311 Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in flute. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1312 Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in oboe. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1313 Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in clarinet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1314 Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bassoon. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVW 1315  Applied Music Saxophone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in saxophone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2321  Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in flute. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2322  Applied Music Oboe
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in oboe. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2323  Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in clarinet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2324  Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bassoon. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2325  Applied Music Saxophone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in saxophone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 288   Directed Study
1-12 sh (may be repeated indefinitely for credit)

MVW 3333  Applied Music Clarinet
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in clarinet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3334  Applied Music Bassoon
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in bassoon. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3335  Applied Music Saxophone
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in saxophone. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3970  Junior Recital - Woodwinds
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization 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.

MVW 4341  Applied Music Flute
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in flute. Primarily for music majors of 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 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 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 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 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
NGR-Nursing: Graduate Courses

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

NGR 6002  Advanced Health Assessment
3 sh (may not be repeated for credit)
This course will build upon health assessment skills developed in the professional nurse's basic education program. The theoretical and clinical basis for assessment in advanced nursing practice will be developed. The process whereby the advanced nurse utilizes comprehensive physical, psychological, and cultural assessment across the life span to gather specific data relevant to common health problems is demonstrated.

NGR 6111  Foundations of Nursing Science
3 sh (may not be repeated for credit)
The course includes the synthesis of concepts, principles and theories of nursing and related disciplines as applied to the role of the nurse in advanced practice.

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 6201  Care of the Adult I
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6111 AND NGR 6140 AND NGR 6172 AND NGR 6638 AND NGR 6803 AND NGR 6893
Co-requisite: NGR 6201L
This course provides the opportunity to analyze the theoretical skills for diagnosis, management and evaluation of commonly occurring, complex, and/or long term health needs of adults and communities. Content focuses on providing the essentials of current practices in diagnostic reasoning, nursing management, and evidence-based practice in the care of adults.

NGR 6201L  Care of the Adult I Practicum
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6003 AND NGR 6111 AND NGR 6140 AND NGR 6172 AND NGR 6638 AND NGR 6803
Co-requisite: NGR 6201
This course provides the opportunity to apply the theoretical skills for diagnosis, management and evaluation of commonly occurring, complex, and/or long term health needs of adults and communities. Content focuses on the application of current practice in diagnostic reasoning, nursing management, and evidence-based practice in the care of adults. This supervised advanced clinical experience focuses on the role of the nurse practitioner in clinical practice.

NGR 6202  Care of the Adult II
3 sh (may not be repeated for credit)
Prerequisite: NGR 6201/L
Co-requisite: NGR 6202L
The course allows the learner to expand on the roles of the Advanced Practice Nurse Practitioner in the care of adults and their families across the lifespan. The foundation for synthesizing health information aimed at helping adults and their families to assume responsibility for the prevention of illness and the promotion and maintenance of health are further developed. Available health resources from local, regional, national and global sources are analyzed and incorporated into healthcare plans and decisions.

NGR 6202L  Care of the Adult II Practicum
3 sh (may not be repeated for credit)
Prerequisite: NGR 6201/L
Co-requisite: NGR 6202
The course allows the learner to engage in Advanced Nursing Practice with selected adult populations. Learners further define and expand their practice of adult and family health nursing based on the integration of theory, research, self-evaluation, and clinical supervision. A variety of approaches, theories and issues of health care service delivery are further explored, especially focused on multiple chronic diseases and their management.

NGR 6301  Care of the Child and Family
3 sh (may not be repeated for credit)
Prerequisite: NGR 6201/L
Co-requisite: NGR 6301L
This course provides the opportunity to develop and apply the theoretical skills for diagnosis, management and evaluation of commonly occurring, complex, and/or long term health needs of children and their families. Content focuses on the analysis of current practices in diagnostic reasoning, nursing management, and evidence-based practice in the care of children. This includes common normal and abnormal variations in physical, cognitive, and psychological development and chronic conditions often specific to this population.

NGR 6301L  Care of the Child and Family Practicum
2 sh (may not be repeated for credit)
Prerequisite: NGR 6201/L
Co-requisite: NGR 6301
Supervised advanced clinical experience focused on the roles of the nurse practitioner while dealing with the care of the well and ill child and family. Application of theory and skills for evaluation, diagnosis and management of commonly occurring, complex, and/or long term health needs of children and their families.
NGR 6343  Women's Health  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6201/L  
Co-requisite: NGR 6343L  
This course provides the opportunity to develop and apply the theoretical skills for diagnosis, management and evaluation of commonly occurring, complex, and/or long term health needs of women. Content focuses on the analysis of current practices in diagnostic reasoning, nursing management, and evidence-based practice in the care of women, including common normal and abnormal variations in physical, cognitive, and psychological development and chronic conditions often specific to this population.

NGR 6343L  Care of Women Practicum  
2 sh (may not be repeated for credit)  
Prerequisite: NGR 6201/L  
Co-requisite: NGR 6343  
Supervised advanced clinical experience focused on the roles of the nurse practitioner when providing care specific to women. Application of theory and skills for diagnosis, management and evaluation of commonly occurring, complex, and/or long term health needs of women.

NGR 6638  Population Health Promotion and Management  
3 sh (may not be repeated for credit)  
The purpose of this course is to involve the learner in recognizing diverse influences of varying global populations and issues surrounding access to health care. It will distinguish between health, wellness, illness, disease and disability while examining relevant ethical issues and health disparities in current practice regulations. The content will compare levels of prevention (primary, secondary and tertiary) for health consumers across the lifespan. The student will analyze the Healthy People 2020 Initiative to determine its status and impact on the health status of vulnerable populations.

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  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6111 AND NGR 6140 AND NGR 6172 AND NGR 6638 AND NGR 6803 AND NGR 6893  
Co-requisite: NGR 6710L  
This course introduces the learner to the nurse educator role with regard to the teaching and learning process including the embedded responsibilities of both the teacher and the learner. The focus of the course includes assessment of learning styles, foundational concepts in teaching and learning theory including their use with learners, an introduction to instructional design and the use of technology to support instruction, and setting expectations for learners.

NGR 6710L  Nursing Education Practicum I  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6111 AND NGR 6140 AND NGR 6172 AND NGR 6638 AND NGR 6803 AND NGR 6893  
Co-requisite: NGR 6710  
This course introduces the learner to the nurse educator role in clinical practice. Learners will focus on their responsibilities for setting expectations in clinical and classroom learning situations. Assessment of learning styles, appropriate instructional strategies with different learners and formulating classroom and clinical instruction based on effective design and appropriate use of technology are integral to the course.

NGR 6715  Nursing Education Seminar II  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6710  
Co-requisite: NGR 6715L  
This course continues the analysis and synthesis of teaching learning and related theories in classroom and clinical settings for the emerging nurse educator. The focus of the course is the application of theories in the development of courses and curricula that reflect the mission, goals and values of the parent organization, current and emerging standards and regulations, as well as issues and trends in nursing education. Emphasis is on institutional purposes, goals, nursing curricula, and designing instruction for classroom and clinical settings.

NGR 6715L  Nursing Education Practicum II  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6710  
Co-requisite: NGR 6715  
This course immerses the learner in the full scope of the nurse educator role in clinical and classroom settings as well as service learning. Learners will focus on course and curriculum design based on effective learning strategies and the effective use of instructional design and technologies. A continued focus on learning style assessment, appropriate use of instructional strategies in course and curriculum development and analyzing curricular components essential to the nurse educator role.
NGR 6718  Nursing Education Seminar III  
2 sh (may not be repeated for credit)  
Prerequisite: NGR 6715/L  
Co-requisite: NGR 6718L  
This course provides a forum for the evaluation of issues and trends encountered in nursing education and their impact on teaching and learning. Emphasis is on critical analysis and management of nursing curricula and programs of nursing education. Certification of graduates and accreditation of the nursing and parent organizations as well as aspects of nursing education research are a major aspect of this course.

NGR 6718L  Nursing Education Practicum III  
2 sh (may not be repeated for credit)  
Prerequisite: NGR 6715/L  
Co-requisite: NGR 6718  
This nurse educator practicum course continues the immersion experience of the learner into the full scope of the nurse educator role. Learners will focus on content and concept mapping, curricular development and evaluation as well as the regulatory issues in nursing education. Accreditation and external validation testing of graduates is integral to the course.

NGR 6727  Nurse Executive Seminar III  
2 sh (may not be repeated for credit)  
Prerequisite: NGR 6729/L  
Co-requisite: NGR 6727L, NGR 6835  
In this course the student synthesizes and applies concepts, models and principles of evidence-based practice to improve processes and outcomes in the healthcare system. Organizational dynamics and resistance to change are appraised in the processes of project development and implementation. The student formulates strategies to serve as a catalyst for change.

NGR 6727L  Nurse Executive Practicum III  
2 sh (may not be repeated for credit)  
Prerequisite: NGR 6727*/ AND NGR 6729/L  
This course focuses on the proposal development process and is centered on principles of evidence-based nursing practice utilizing an evidence based model for evaluating available evidence for its applicability to practice. Leadership behaviors which promote change and implementation of evidence-based practice is a primary focus.

NGR 6728  Nurse Executive Seminar I  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6111 AND NGR 6638 AND NGR 6734 AND NGR 6793 AND NGR 6803 AND NGR 6872 AND NGR 6893  
Co-requisite: NGR 6728L  
This initial specialization seminar course explores complex theories and concepts in nursing leadership and management, beginning the preparation of the learner for the nurse executive role. The course will investigate leadership models, theories, and styles as well as roles and functions of management. Complex organizational systems are explored to include structure, mission, philosophy, goals, objectives, basic financial management, human resources, accrediting processes, and the political environment.

NGR 6728L  Nurse Executive Practicum I  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6111 AND NGR 6638 AND NGR 6734 AND NGR 6793 AND NGR 6803 AND NGR 6872 AND NGR 6893  
Co-requisite: NUR 6728  
The Nurse Executive Role Practicum course provides the student with 90 hours leadership role practicum to become proficient in applying concepts, principles and theories from previous courses to the role and functions of the nurse leader/executive. The student is guided by a designated leader/executive preceptor and faculty partner.

NGR 6729  Nurse Executive Seminar II  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6728/L  
Co-requisite: NGR 6729L  
This is the second of the Nurse Executive Seminars with the focus on nursing administrators/leaders making strategic organizational decisions within the healthcare system. The course explores healthcare as a business, the organizational culture and strategic planning. Quality outcomes, both healthcare and financial as well as the development and management of projects are explored. The impact of external regulatory factors on a complex healthcare system(s) are assessed.

NGR 6729L  Nurse Executive Practicum II  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6728/L  
Co-requisite: NGR 6729  
The Nurse Executive Practicum II provides the student with 135 hours of a focused role immersion practicum concentrating on strategic planning, budgeting processes, policy development, identification and/or resolution of a healthcare organization problem or challenge.

NGR 6734  Project Development and Management for Healthcare Professionals  
3 sh (may not be repeated for credit)  
This course provides a foundation for project management as it applies to healthcare. Development of health project ideas, implementation strategies and skill sets for project management and sustainment are specific foci. At the conclusion of this course, students should be able to develop, execute and manage a basic project plan that is capable of supporting organizational objectives linked to measures of success for a single project.

NGR 6740  Contemporary Issues in the Role of Advanced Nursing Practice  
3 sh (may not be repeated for credit)  
Focuses on the role of the Advanced Nursing Practice nurse. Integrates nursing and other discipline theories and issues relevant to clinical practice, administration, education, and research issues. Includes theoretical analysis, application, and synthesis in the development of an individual model of advanced nursing practice for the student. Permission is required.
NGR 6793  Fiscal Administration for the Health Professional
3 sh (may not be repeated for credit)
The focus of this course is on the application of financial concepts, principles, and theories in the health care industry. Foundational financial management processes equip the student with business and financial skills for assessing the fiscal status of health care systems and data driven decisions. The course culminates with the development of a business case for an identified service or problem resolution.

NGR 6800  Nursing Research, Statistics, and Evidence Based Practice
3 sh (may not be repeated for credit)
This initial research, statistics and evidence-based practice (EBP) course builds on undergraduate research & statistics content. It explores complex theories and concepts in nursing research, statistics and evidence-based practice beginning the preparation of the student for the nursing scholar role. It includes critical appraisal of research evidence including the interpretation of statistical analyses commonly used in evidence summaries. It includes the evidence-based practice process to prepare the graduate nurse to translate research evidence summaries into evidence-based practice project proposals. It will also prepare the nurse for the role of change agent as they identify practice areas where evidence-based practice integration is needed and facilitate the movement of evidence-based quality initiatives and practice change. Also, it provides the student with core EBP competencies leading to preparation for a capstone project in their last semester.

NGR 6803  Integration of Evidence in Advanced Nursing Practice
3 sh (may not be repeated for credit)
This course explores complex concepts and theories including rapid critical appraisal of evidence in preparation for translation to nursing practice. The course includes the evidence-based practice process and steps in evidence-based quality improvement project implementation. The course prepares the nurse to function as a catalyst for change.

NGR 6833  Nursing Leadership & Management EBP Project I
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6720 AND NGR 6729 AND NGR 6740 AND NGR 6880
This course follows all MSN core content and Nursing Leadership and Management Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6833L  Nursing Leadership & Management EBP Project II
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6800 AND NGR 6880
This course follows all MSN core content, Nursing Leadership and Management Seminars, and completion of an approved project proposal. In this course the student will use knowledge from prior courses to conduct the evidence-based project from NGR 6833 project proposal. Permission is required.

NGR 6834  Nursing Education Evidence Based Project I
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6800 AND NGR 6880
This course follows all MSN core content and Nursing Education Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6834L  Nursing Education Evidence Based Practice Project II
3 sh (may not be repeated for credit)
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6800 AND NGR 6834 AND NGR 6880
This course follows all MSN core content, Nursing Education Seminars, and the project proposal development course. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6835  Project Evaluation and Dissemination
2 sh (may not be repeated for credit)
Prerequisite: (NGR 6727*/L* AND NGR 6729/L) OR (NGR 6715/L AND NGR 6718*/L*) OR (NGR 6202/L AND NGR 6343*/L*)
This culminating course focuses on project evaluation and dissemination. The project is evaluated through the assessment of the project processes, actions, measurable outcomes and impact on the healthcare organization/system. Dissemination of the project occurs with identifying audiences at the local, state, national and/or international level.

NGR 6872  Information Technology and Data Analysis for Healthcare Professionals
3 sh (may not be repeated for credit)
The focus of this course is on the use of information systems/technology to evaluate programs of care, outcomes of care, financial decision making, and patient safety and care systems to influence quality improvement. The course introduces methods for making sense of both small and big data through analysis, categorization and management.

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.
and the ability to locate reliable internet resources is explored.

physical examination techniques. Identification of primary health needs and skills in health history interviews, health screening, and selected

For the RN-BSN student, this course focuses on enhancing knowledge and economic implications and the role of the provider in policy making.

NUR 4165. * This course may be taken prior to or during the same term.

**NSP-Nursing Special Courses**

NSP 3845  Academic Writing in Nursing I
3 sh (may not be repeated for credit)
Co-requisite: NUR 3081

Provides an introduction to the academic reading and writing characteristics of higher education for the RN-BSN student. Within the context of the nursing profession the student will demonstrate the ability to read critically, write effective arguments, and practice the writing process using APA style format. Co-requisite NUR 3081.

NSP 4846  Academic Writing in Nursing II
1 sh (may not be repeated for credit)
Co-requisite: NUR 4165

Continues the foundation for the academic reading and writing characteristics of higher education for the RN-BSN student. Within the context of evidence-based nursing practice the student will conduct a scholarly literature review, write extended arguments, and further develop writing expertise using APA style format. Co-requisite NUR 4165.

**NUR-Nursing: Generic Undergrad Courses**

NUR 3026  Patient Centered Care I
4 sh (may not be repeated for credit)
Prerequisite: NUR 3026/NUR 3026L/NUR 3095/NUR 3138/NUR 3805

This course will introduce the student to the use of evidence-based strategies and the nursing process in provision of patient centered care of adults and older adults with chronic or non-complex acute illnesses. An emphasis of this course will focus on safety, quality of care, and interprofessional collaborative efforts to optimize patient outcomes.

NUR 3026L  Patient Centered Care I Lab
3 sh (may not be repeated for credit)
Co-requisite: NUR 3026/NUR 3138/NUR 3805

This course provides the student with clinical skill development and patient centered care clinical experiences effectively grounded in the principles of safety, quality, interprofessional care, and evidence based practice. Translation of theory to practice is emphasized.

NUR 3067  Health Assessment and Promotion
3 sh (may not be repeated for credit)

For the RN-BSN student, this course focuses on enhancing knowledge and skills in health history interviews, health screening, and selected physical examination techniques. Identification of primary health needs and the ability to locate reliable internet resources is explored.

NUR 3081  Transition to Professional Nursing Practice
3 sh (may not be repeated for credit)
Co-requisite: NSP 3845

This introductory course for the RN-BSN student provides educational based guidance in progressing into the role of the baccalaureate nurse through exploration of nursing theories, healthcare policy, and the core healthcare professional competencies.

NUR 3095  Introduction to Pharmacological Nursing
2 sh (may not be repeated for credit)
Co-requisite: NUR 3026/NUR 3026L/NUR 3095/NUR 3805

This course focuses on the pharmacologic aspects of nursing practice. A foundation of knowledge is built in relation to pharmacokinetics, pharmacodynamics, and pharmacotherapeutics of drug therapy. The nurses’ role in error prevention and patient safety during medication administration is carefully examined.

NUR 3138  Health Assessment and Promotion in Nursing Practice
3 sh (may not be repeated for credit)
Co-requisite: NUR 3026/NUR 3026L/NUR 3095/NUR 3805

This course introduces students to health assessment as a systematic process with emphasis on therapeutic communication skills and assessment of health across the lifespan. Focus is on the development of therapeutic relationships and the use of general and specialized assessment skills as a basis for clinical decision making.

NUR 3145  Pharmacotherapeutics for the RN-BSN
3 sh (may not be repeated for credit)

For the RN-BSN student, this course focuses on the principles and concepts of pharmacology, current population specific treatment and related nursing practices.

NUR 3215  Patient Centered Care II
4 sh (may not be repeated for credit)
Prerequisite: NUR 3026/NUR 3026L/NUR 3095/NUR 3138 AND NUR 3805
Co-requisite:
NUR 3215L/NUR 3505/NUR 3505L/NUR 3835/NUR 3871

This course provides the student vital knowledge on the increasing acuity of common health illnesses and related nursing care interventions for the Adult Health client across the lifespan. Through critical thinking, clinical reasoning, evidence based practice and problem based learning, students gain an understanding of actual and potential complex health problems.

NUR 3215L  Patient Centered Care II Lab
3 sh (may not be repeated for credit)
Co-requisite: NUR 3215

This course provides the student with clinical skill development and patient centered care clinical experiences effectively grounded in the principles of safety, quality, interprofessional care, and evidence based practice. Translation of theory to practice is emphasized.
NUR 3026/L AND NUR 3095 AND NUR 3138 AND NUR 3835
Co-requisite: NUR 3215, NUR 3215L, NUR 3505, NUR 3835, NUR 3871

This course provides the mental health clinical component of Mental Health Nursing Care. Students will perform therapeutic nursing care to diverse individuals and families across the lifespan. The use of evidence-based practice guidelines will be incorporated into the provision of nursing care of those individuals who chronic mental health disorders.

NUR 3026/L AND NUR 3095 AND NUR 3138 AND NUR 3835
Co-requisite: NUR 3215, NUR 3215L, NUR 3505, NUR 3835, NUR 3871

This course introduces the student to key concepts and expectations of professional nursing. A comprehensive examination of nursing history, theories, and models, the nursing process, nursing organizations, law and liability, ethics, education, health care systems, and professional organizations are discussed. Additionally, the student will explore the primary roles of a professional nurse and what key elements are required.

NUR 3026/L AND NUR 3138 AND NUR 3835
Co-requisite: NUR 4169, NUR 4216L, NUR 4445, NUR 4445L

This course is designed to promote the student's understanding of translating research into nursing clinical reasoning and decision-making. Upon completion of the course, the student should be able to review and use research findings in the provision of patient-centered care to improve health.

NUR 3215/L AND NUR 3505/L AND NUR 3835 AND NUR 3871
Co-requisite: NUR 4169, NUR 4216L, NUR 4445, NUR 4445L

This course builds upon and broadens the student's knowledge base and clinical reasoning skills in the provision of patient-centered care to individuals, families, and diverse populations with increasingly complex illnesses. Emphasis is placed on utilizing evidence-based principles and the nursing process in the delivery of safe, high-quality patient care.

NUR 3215/L AND NUR 3505/L AND NUR 3835 AND NUR 3871
Co-requisite: NUR 4216

This course provides the student with applicable clinical experiences caring for complex adult health clients with varied illnesses. Through clinical, lab, and simulation experiences, the concepts of clinical reasoning, clinical judgment, and care centered in quality and safety are emphasized. Use of evidence in the provision of complex care is also a course focus.

NUR 4169 AND NUR 4216/L AND NUR 4445
Co-requisite: NUR 4257

This final patient-centered care course synthesizes previous and current knowledge in providing safe, quality nursing care to high-acuity individuals, and families with unstable or life-threatening conditions. The nurse's role as provider and manager of care is emphasized in relation to best-practice strategies that improve patient outcomes.
NUR 4257L Patient Centered Care IV Lab  
4 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445/L  
Co-requisite: NUR 4257  
This final patient centered care lab course focuses on the provision of safe, competent, quality nursing care to those individuals who have high acuity illness, are unstable, or have life threatening conditions. The nurse?s role as provider and manager of care is emphasized as part of this preceptor based clinical experience. Course Type Internship.  

NUR 4286 Gerontological Nursing  
3 sh (may not be repeated for credit)  
For the RN-BSN student, this course explores holistic nursing strategies for health promotion and risk reduction in the older adult.  

NUR 4445 Patient Centered Care of Families  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 3215/L AND NUR 3505/L AND NUR 3835 AND NUR 3871  
Co-requisite: NUR 4445L  
The course introduces the student to fundamentals of childbearing processes and evidence-based care for women, children, and their families during the antepartum, intrapartum, and postpartum periods as well as growth and development of infants, children, and adolescents. Emphasis is placed on caring for women, children, and their families utilizing the nursing process in diverse settings across the care continuum. The course is designed to develop perspectives on wellness and illness in child-bearing women and children, highlighting family centered care that incorporates screening, teaching, and health counseling.  

NUR 4445L Patient Centered Care of Families Lab  
2 sh (may not be repeated for credit)  
Prerequisite: NUR 3215/L AND NUR 3505/L AND NUR 3835 AND NUR 3871  
Co-requisite: NUR 4445  
This course focuses on the student providing patient centered care to women, children, adolescents and families utilizing the nursing process and evidence based practice principles to promote safe quality driven care. Course design promotes the students ability to develop perspectives on wellness and illness in child-bearing women and children, highlighting family centered care that incorporates screening, teaching, and health counseling.  

NUR 4615 Community and Public Health Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445/L  
Co-requisite: NUR 4636L  
The purpose of this course is to examine strategies for wellness promotion, disease prevention, and disaster management in communities and populations utilizing evidence based practice. Emphasis is on global health and the epidemiologic principles that affect the health of vulnerable populations. This course provides students the opportunity to plan and implement a service learning project in a vulnerable population community. Meets Multicultural Requirement.  

NUR 4636 Public Health & Community-based Nursing  
3 sh (may not be repeated for credit)  
This RN-BSN course emphasizes practice of public health and community-based nursing. The course emphasizes systems-level health promotion and disease prevention, using the public health sciences of epidemiology, environmental health, health policy, community assessment.  

NUR 4636L Community and Public Health Nursing Lab  
2 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445/L  
Co-requisite: NUR 4615  
Expanding upon current knowledge and experience base, students will participate in a variety of clinical experiences in diverse settings with an emphasis on health maintenance, health promotion, education, and disease prevention.  

NUR 4826 Law & Ethics in Nursing  
3 sh (may not be repeated for credit)  
For the RN-BSN student to explore legal concepts and regulations that guide professional nursing practice. Examines ethical decision-making related to nursing practice and health care.  

NUR 4827 Leadership and Management in Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445/L AND NUR 4615/L  
Co-requisite: NUR 3837,NUR 4257,NUR 4257L,NUR 4945L  
The purpose of this course is to examine leadership and management concepts used to address complex microsystem issues within selected healthcare organizations. Emphasis is on the application of advanced communication skills in collaboration with interprofessional teams. Focus is on the interrelationship of selected roles within the context of specific theoretical frameworks and models of care.  

NUR 4828 Nursing Systems Management  
3 sh (may not be repeated for credit)  
This RN-BSN course provides an overview of essential nurse leader/manager skills, knowledge, and expertise required for complex health care environments. An emphasis on quality and safety initiatives will be examined to ensure the provision of highly reliable care.  

NUR 4895 Health Education in the Community  
3 sh (may not be repeated for credit)  
This capstone course focuses on the role of nurse as health educator. The student will design and implement an evidence based teaching plan for a vulnerable population in the community setting.  

NUR 4905 Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
* This course may be taken prior to or during the same term.
OCB-Biological Oceanography Courses

OCB 3108 Study Abroad In Florida - Marine Field Studies
3-4 sh (may not be repeated for credit)
Prerequisite: BSC 2010 AND BSC 2011 AND CHM 2045 AND CHM 2046

This is a 5-week, field intensive course designed to expand student knowledge of the biodiversity, geochemistry, and human impact of Florida's coastal and offshore ecosystems through a round-robin trip around Florida to explore marine eco-systems. This course will take students from the reefs of the Florida Keys to the open Gulf of Mexico aboard state-of-the-art research vessels, as well as shallow tropical estuaries of the western Everglades, the temperate Estuarine and Coastal environments of Northeast Florida, and watersheds in northwest Florida. Field and laboratory work will allow students to utilize current marine research methods while learning about marine environments and their organisms. Some field activities will be physically demanding. Required prerequisites include Chem I and II, Bio I and II, or permission of the instructor is required.

OCB 4201 Biology of Coral Reefs
3 sh (may not be repeated for credit)
Prerequisite: (BOT 2010 AND PCB 2131) OR ZOO 1010 OR (BSC 2010 AND BSC 2011)

Overall, the aim of this course is to highlight the organization, structure, productivity, and biological diversity of the coral reef ecosystem. This course will address the taxonomy, biology, and ecology of the main groups (inhabitants & builders) on coral reefs. Special attention and focus will be given to environmental and anthropogenic disturbances. Offered concurrently with OCB 5203 (Biology of Coral Reefs).

OCB 5203 Biology of Coral Reefs
3 sh (may not be repeated for credit)

Overall, the aim of this course is to highlight the organization, structure, productivity, and biological diversity of the coral reef ecosystem. This course will address the taxonomy, biology, and ecology of the main groups (inhabitants & builders) on coral reefs. Special attention and focus will be given to environmental and anthropogenic disturbances. Offered concurrently with OCB 4201 (old ZOO3556).

OCC-Chemical Oceanography Courses

OCC 4002 Chemical Oceanography
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topics covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, digenesis, and air-sea gas exchange.

OCC 4414 Global Biogeochemical Cycles
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.

OCE-General Oceanography Courses

OCE 3007 Concepts of Oceanography and Marine Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

This course is an examination of the principal ecosystems of the world's oceans, emphasizing the biotic and abiotic factors that contribute to the distribution of marine organisms. This course will focus on ocean literacy: awareness and understanding of the fundamental concepts about the history, function, contents, and utilization of the ocean. Emphasis will be placed on marine environmental issues and climate change.

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

OCE 4265 Remote Sensing of Oceans
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311

Provides a foundation in cartographic and remote sensing principles, and practical experience with remote sensing applications as they relate to the world's oceans. It examines basic concepts of electromagnetic radiation and its interaction with earth. Remotely sensed images from sensors such as SeaWIFS, AVHRR, and Topex/Poseidon will be discussed. Exercises will cover ocean color, sea surface temperature altimetry, and sea ice.

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

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

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

ORI-Oral Interpretation Courses

PAD-Public Administration Courses

PAD 3003 Public Administration in American Society
3 sh (may not be repeated for credit)

Effective administration of government agencies, nonprofit organizations and other civil institutions is necessary if American democracy is to thrive. Addresses that challenge by examining the administration of governmental and nonprofit organizations using both traditional concepts (e.g. administrative theory, civil service systems, human relations movement) and more contemporary concepts (the new public administration, reinventing government).

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

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

PAD 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 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 (DCAAA). Contracts from the contractor's and the federal Contracting Officer's perspective. Indirect costs and cost allocation bases. Methods utilized by the federal government to establish estimates of fair and competitive prices for goods and services.

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

PAD 6041   Public Service Ethics
3 sh (may not be repeated for credit)
A fully online course concentrating on public service ethics and organizational integrity. Focuses on ethical dilemmas and concerns faced by public managers arising from their exercise of administrative discretionary power. Explores contemporary public service ethical dilemmas, and nascent studies and concepts of organizational evil, administrative evil, governance, moral inversion and technical rationality through case studies and ethics literature. Provides maps and tools to make ethical and integrity obligations 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 6227   Public Budgeting
3 sh (may not be repeated for credit)
A fully online course focusing on the economics of public sector and politics of public budgeting and finance. The course identifies and investigates intergovernmental fiscal relations, including an analysis of the budgetary practices and relations at the federal, state, and local levels of government. The course provides a review of sources of government revenues; probes market failures, public expenditure theory, public goods, publicly provided private goods, sources of inefficiencies in the public sector; differentiates between externalities and the environment, introducing the concept sustainable budgeting and triple bottom line; and evaluates public expenditures.

PAD 6275   Political Economy of Public Administration
3 sh (may not be repeated for credit)
A fully online course focusing on the political economy of public administration. The political economy factors and theories are analyzed and assessed, including markets, politics and democracy, market failure and bureaucratic failure, relationships between government and business, public choice theory, sustainability, privatization and contracting out.

PAD 6335   Strategic Management for Public and Nonprofit Organizations
3 sh (may not be repeated for credit)
An examination of the rationale and methods of strategic management applied to the planning processes of public and nonprofit organizations.

PAD 6417   Public Service Human Resource Management
3 sh (may not be repeated for credit)
An examination of the theories, practices and issues central to contemporary human resource management in public service and nonprofit organizations. This course focuses on leadership issues in public service HRM.
PAD 6425  Public Service Conflict Management and Resolution
3 sh (may not be repeated for credit)
Focuses on managing public disputes and emphasizes the significance of praxis. Explores constructive alternative dispute resolution (ADR) processes and procedures to legalistic, adversarial methods of dispute resolution in the public and nonprofit sectors. Knowledge and skills developed are those needed to analyze complex conflict and dispute situations, shape appropriate processes to involve the right parties, constructively negotiate settlements, select mediators and facilitators, and design dispute resolution programs. Emphasizes conflict management and resolution leadership.

PAD 6706  Public Administration Research Methods
3 sh (may not be repeated for credit)
Basic ideas of scientific research and how it is used in public administration. Prepares the student as both a consumer and a potential producer of research.

PAD 6864  Intermediate Contracting and Contract Administration
3 sh (may not be repeated for credit)
Government contracting and administration at the intermediate level. Intermediate level aspects of the federal acquisition process ranging from initiating the acquisition process through protests. Intermediate federal contract administration from initiating contract administration through claims.

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

PAD 6946  Administration Capstone
3 sh (may not be repeated for credit)
The Administrative Studies Capstone Course is the culminating academic experience for students who are nearing completion of their MSA program. The course involves content topics addressing the review and reflection of your MSA academic program, ethical leadership, action research skills, and an end of course action research project that provides students with the opportunity to explore a problem or issue of particular personal or professional interest and to address that problem or issue through focused study. 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. This final project should affirm students’ ability to think critically and creatively, to solve practical problems, to make reasoned and ethical decisions, and to communicate effectively.

PAD 7003  Administrative Ethics
3 sh (may not be repeated for credit)
This is a doctoral level course concentrating on public service ethics. The course focuses on ethical dilemmas and concerns faced by public managers arising from their exercise of administrative discretionary power. The course explores contemporary public service ethical dilemmas by examining teleological and deontological schools of thought applied to case studies and ethics literature. The course provides maps and tools to make moral experiences more explicit and consistent. Finally, the course scrutinizes the concepts of administrative evil, technical rationality, moral inversion, and ethical decision-making.

PAD 7004  Public Budgeting and Finance
3 sh (may not be repeated for credit)
This course includes an analysis and practice of the budgetary processes typically employed at the federal, state, and local levels of government. The course contains practical, as well as theoretical exposure to the techniques and various formats of public budgeting. This is a doctoral level course focused on the economics of public sector and the politics of public budgeting and finance. The course identifies and investigates intergovernmental fiscal relations, including an analysis of the budgetary practices and relations at the federal, state, and local levels of government.

PAD 7409  Strategic Management in Administration
3 sh (may not be repeated for credit)
This course includes an examination and practice of planning, goal setting, assessment, and strategic management in public and non-profit organizations.

PAD 8905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PAD 8980  Dissertation
1-6 sh (may be repeated for up to 18 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.

PAS-Physician Assistant Courses

PCB-Process Bio:Cell/Mole/Eco Courses

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

PCB 3063C  Genetics
4 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2111/L
Origin, development, and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3097  Introduction to Human Anatomy
3 sh (may not be repeated for credit)
Prerequisite: BSC 2111/L
Co-requisite: PCB 3097L
Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hrs</th>
<th>Repeatable</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>PCB 3097L</td>
<td>Introduction to Human Anatomy Laboratory</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td>PCB 3097*; Co-requisite: PCB 3097</td>
</tr>
<tr>
<td>PCB 3103</td>
<td>Cell Biology</td>
<td>3 sh</td>
<td>may not be repeated</td>
<td>BSC 2010/L AND BSC 2011/L</td>
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<tr>
<td>PCB 3103L</td>
<td>Cell Biology Laboratory</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td>PCB 3103*</td>
</tr>
<tr>
<td>PCB 3253</td>
<td>Developmental Biology</td>
<td>3 sh</td>
<td>may not be repeated</td>
<td>BSC 2011/L; Co-requisite: PCB 3253L</td>
</tr>
<tr>
<td>PCB 3253L</td>
<td>Developmental Biology Lab</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td>PCB 3253</td>
</tr>
<tr>
<td>PCB 3905</td>
<td>Directed Study</td>
<td>1-12 sh</td>
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<tr>
<td>PCB 3930</td>
<td>Biology Seminar Series</td>
<td>1 sh</td>
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<tr>
<td>PCB 3930L</td>
<td>Introduction to Human Anatomy Laboratory</td>
<td>1 sh</td>
<td>may not be repeated</td>
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</tr>
<tr>
<td>PCB 4043</td>
<td>Ecology</td>
<td>3 sh</td>
<td>may not be repeated</td>
<td>(BOT 2010/L AND CHM 2046/L AND STA 2023) OR BSC 2011/L; Co-requisite: PCB 4043L</td>
</tr>
<tr>
<td>PCB 4043L</td>
<td>Ecology Lab</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td>PCB 4043</td>
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<tr>
<td>PCB 4048C</td>
<td>Coastal Marine Ecology</td>
<td>4 sh</td>
<td>may not be repeated</td>
<td>CHM 2046/L AND PCB 4043</td>
</tr>
<tr>
<td>PCB 4098</td>
<td>Concepts in Human Physiology</td>
<td>3 sh</td>
<td>may not be repeated</td>
<td>BSC 2011/L AND PCB 4098L*</td>
</tr>
<tr>
<td>PCB 4098L</td>
<td>Concepts in Human Physiology Laboratory</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td>PCB 4098*</td>
</tr>
<tr>
<td>PCB 4098L</td>
<td>Concepts in Human Physiology Laboratory</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td></td>
</tr>
<tr>
<td>PCB 4233</td>
<td>Immunology</td>
<td>3 sh</td>
<td>may not be repeated</td>
<td>MCB 3020 OR (CHM 2210 AND PCB 3103)</td>
</tr>
<tr>
<td>PCB 4233L</td>
<td>Immunology Lab</td>
<td>1 sh</td>
<td>may not be repeated</td>
<td>PCB 4233</td>
</tr>
</tbody>
</table>

Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields.

Cell biology is the study of the structure and function of eukaryotic cells. The course will cover the basics of cellular function and biochemical foundations, cellular genetics and molecular biology, cell structure and function, cell signaling, and cytoskeletal organization and regulation. Relevant current topics in the news and disease case studies will also be used to more broadly apply the topics learned throughout the course to real-world situations.

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.

Concepts in Human Physiology is a 3 credit lecture and 1 credit lab course for students interested in areas related to human physiology. It covers physiological mechanisms of the human body. Emphasis is placed on mechanisms designed to maintain homeostatic conditions, membrane dynamics and cell signaling including endocrine and nervous signals, as well as other vital physiologic mechanisms necessary to homeostasis.

Basic principles of immunology to include humeral and cell-mediated immune mechanisms, the complement system and the inflammatory response. Offered concurrently with PCB 5235; graduate students will be assigned additional work.
PCB 4233L  Immunology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PCB 4233*
Selected experiments in immunology. Special permission required. Permission granted on the basis of fulfilling prerequisite. Material and Supply Fee will be assessed. Offered concurrently with PCB 5235L; graduate students will be assigned additional work.

PCB 4364  Marine Ecological Physiology
3 sh (may not be repeated for credit)
Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 5319; graduate students will be assigned additional work.

PCB 4364L  Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PCB 4364*
Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and Supply Fee will be assessed. Offered concurrently with PCB 5344; graduate students will be assigned additional work.

PCB 4374  Tropical Ecology/Op Wall
3 sh (may not be repeated for credit)
1-6 week course culminating in an expedition with Op Wall to study coral reefs, mangrove forests, as well as tropical dry, rain and cloud forests. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. A series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna and to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 5344; graduate students will be assigned additional work. Permission is required.

PCB 4461  Molecular Ecology
3 sh (may not be repeated for credit)
Prerequisite: (ZOO 1010 OR BOT 2010) AND (PCB 2131 OR (BSC 2010 AND BSC 2011))
Overall, the aim of this course is as an introduction to how developments in modern genetic techniques are used to improve our understanding of evolutionary and ecological processes. We will explore the biology of populations and communities of organisms using molecular data. Students will create, practice, and write a grant proposal in an area of their choosing as if it were submitted for external funding. Further, you will learn how these techniques can be applied to conservation and biodiversity issues.
PCB 5235  Immunology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5235L
The basic principles of immunology will be addressed. Immune-mediated disease processes will be discussed. Offered concurrently with PCB 4233; graduate students will be assigned additional work.

PCB 5235L  Immunology Laboratory
1 sh (may not be repeated for credit)
Selected experiments in immunology. Permission is required. Permission granted on the basis of fulfilling prerequisite or co-requisite. Material and supply fee will be assessed. Offered concurrently with PCB 4233L; graduate students will be assigned additional work.

PCB 5319  Marine Ecological Physiology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5319L
Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic,oxic, thermal and environmental challenges are discussed. Offered concurrently with PCB 4364; graduate students will be assigned additional work.

PCB 5319L  Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: PCB 5319
Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic,oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and supply fee will be assessed. Offered concurrently with PCB 4364L; graduate students will be assigned additional work.

PCB 5445C  Coastal Marine Ecology
4 sh (may not be repeated for credit)
The study of nearshore coastal environments, particularly bays and estuaries emphasizing interactions among biotic communities, physical, geological and chemical processes. The influence of human activities on and management of these ecosystems is discussed. Offered concurrently with PCB 4048C; graduate students will be assigned additional work. Material and supply fees will be assessed for corresponding lab.

PCB 5527  Molecular Biology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5527L
Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 4524; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 5527L  Molecular Biology Lab
1 sh (may not be repeated for credit)
Co-requisite: PCB 5527
Corresponding lab for Molecular Biology.

PCB 5675  Principles of Evolution
3 sh (may not be repeated for credit)
A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 4673; graduate students will be assigned additional work.

PCB 5727  Comparative Animal Physiology
3 sh (may not be repeated for credit)
General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation 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 5905  Water Quality
1-12 sh (may be repeated indefinitely for credit)

PCB 5924  Biology Seminar
1 sh (may not be repeated for credit)
Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB 4922; graduate students will be assigned additional work.

PCB 5924  Biology Seminar
1 sh (may not be repeated for credit)
Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB 4922; graduate students will be assigned additional work.

PCB 6074  Experimental Design in Biology
3 sh (may not be repeated for credit)
Covers experimental design in relation to the analysis of biological data. Topics include sources of error, variation in biological systems, replication and pseudoreplication, controls, multiplicity, sample size and randomization. The physical layout of biological experiments in the field and laboratory will be discussed in relation to basic parametric data analysis techniques.

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

PCB 6971  Thesis*
1-12 sh (may be repeated indefinitely for credit)

PCO-Psychology of Counseling Courses

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

PCO 4310  Intervention in Addictions
3 sh (may not be repeated for credit)
Models of addictive behaviors and implications for assessment and treatment of addiction. Emphasis primarily on alcohol and drug abuse, with information on smoking and obesity included.

PCO 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
PCO 6204  Pre-Practicum: Techniques of Counseling and Psychotherapy
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166 AND PCO 6216
Co-requisite: PCO 6206C, PCO 6246
Experientially-based with an emphasis on counseling and psychotherapeutic techniques and behavior, including the identification and acquisition of broad communication and relationship-building skills, particular counseling techniques, and the development of a counseling response repertoire. Students also develop an understanding of the interaction between theory and technique as it applies to clinical practice, as well as developing their case conceptualization and case management skills. Simulated supervised counseling experience is provided through the use of micro-counseling and role-playing. Provides the opportunity to practice actual counseling skills and techniques prior to the practicum and internship experiences. The practicum placement process is included.

PCO 6206C  Ethical and Professional Issues in Counseling
3 sh (may not be repeated for credit)
In depth review of ethical issues in the practice of mental health counseling, including the professional organizations and ethical standards for psychologists and counselors, legal and professional requirements for practicing in the profession, and the rights of clients. Topics include standards of preparation, certifications and licensing, and the role identity and professional obligations of mental health counselors. Relevant issues for school counselors will be addressed.

PCO 6216  Theories of Individual Counseling
3 sh (may not be repeated for credit)
Students must take (Either CLP 3144 or PPE 4003) or by permission of the instructor or an undergraduate degree in Psychology before enrolling in this course. Overview of major contemporary theoretical approaches to individual counseling and psychotherapy.

PCO 6246  Theories of Group Counseling
3 sh (may not be repeated for credit)
Prerequisite: PCO 6216
Students must take PCO 6216 or by permission of the instructor before enrolling in this course. Overview of major contemporary theoretical approaches to group counseling and psychotherapy.

PCO 6278  Multicultural Counseling
3 sh (may not be repeated for credit)
Addresses the similarities and differences among various culturally diverse groups, and informs counselors of the characteristics and processes necessary to become a culturally skilled counselor.

PCO 6312  Substance Abuse Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166
Examines the misuse of alcohol and other drugs, and how they affect biological, psychological, social and familial spheres of functioning. Designed to convey to counselors in training and community professionals the most essential information about licit and illicit drugs, provide an overview of the prominent theoretical models of addiction, and explore various clinical methods for assessing and treating substance use disorders. Courses in Theories of Individual, Group, or Family Counseling are recommended.

PCO 6315  Assessment in Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166
Practical training in the process of clinical assessment in mental health counseling. Includes an introduction to the science of clinical assessment with a focus on the use of assessment techniques such as interviewing and psychological testing, in a professionally and ethically responsible manner. Includes an experiential component in which the student will develop beginning skills in the use of clinical assessment techniques, under supervision. Permission is required. Material and Supply Fee will be assessed.

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

PCO 6946  Practicum in Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166 AND PCO 6206C AND PCO 6216
Placement of the student in a local mental health agency for 8-10 hours each week. The emphasis of this experience is on development of clinical skills in interviewing, assessment, and counseling of individuals, groups, and families. Students will complete a minimum of 150 hours of field placement of which at least 40 will be in direct client contact. There is a weekly class meeting and individual supervision with the instructor in addition to the clinical activities and supervision at the practicum site. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PCO 6948  Internship in Counseling
1-6 sh (may be repeated for up to 9 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.

PEL-Phys Ed Act: Obj Cent, Land Courses
PEL 1341  Beginning Tennis
3 sh (may not be repeated for credit)
Designed to introduce students to basic tennis strokes; rules; etiquette; terminology; basic tactics; strategy; and equipment.

PEM-Phys Ed Act: Perfo Cent, La Courses
PEM 1116  Body Shaping I
3 sh (may not be repeated for credit)
Designed to introduce body shaping exercises to students to help improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. This entry level class will cover yoga, Pilates, cardio karate, water aerobics, step aerobics, and basic training. Students will exercise using various types of equipment.
PEM 1120  Cardio Weightlifting and Endurance
3 sh (may not be repeated for credit)
Emphasizes the development of cardiovascular and muscular endurance through the use of free weights, weight machines, and cardio exercises. The exercises are based on the principle of circuit training through different exercise stations.

PEM 1121  Yoga I
3 sh (may not be repeated for credit)
Designed to train the student in basic Hatha yoga techniques. An ancient method of exercise as well as a method of spiritual meditation. The physical yoga training will occur during the class periods and there will be a learning module on-line for the student to complete. Each class will be a significant physical challenge. Students of all athletic abilities are encouraged to take the course.

PEM 1122  Yoga II
3 sh (may not be repeated for credit)
Prerequisite: PEM 1121
Designed to further the education and practice of Hatha Yoga. Advanced postures will be explored and the healing significance to each will be explained. Class meetings will be more strenuous than the Yoga I meetings. Strength moves and postures will be emphasized. Participants can enter Yoga II after completion of Yoga I or with the permission of the instructor. Students will be encouraged to develop their own potential abilities and style.

PEM 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 2114  Cycle Fit
3 sh (may not be repeated for credit)
Students will participate in indoor cycling group workouts. Students will learn the proper use of cycle bikes for a safe and effective workout. Students will learn basic instruction techniques that will lay the foundation for learning to become a Cycle Fit instructor.

PEM 2126  Yoga Fitness
3 sh (may not be repeated for credit)
Students will learn information on the background of yoga, the many different types of yoga and the health benefits of participating in yoga fitness. The class includes a physical component in which students will participate in yoga fitness classes, designed to slowly progress through various sequences and poses of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a yoga fitness instructor.

PEM 2127  Pilates
3 sh (may not be repeated for credit)
Students will participate in Pilates classes to condition the core muscles of the body. The classes are designed to slowly progress through various exercises of increasing difficulty as the semester advances. In addition, the students will learn basic instruction techniques that will lay the foundation for learning to become a Pilates instructor.

PEM 2128  Pilates II
3 sh (may not be repeated for credit)
Continuation of the exercises of Joseph H. Pilates. Expanding on the principles of movement within the Pilates environment from intermediate to advanced mat exercises with the use of small props.

PEM 2179  Boot Camp Fitness
3 sh (may not be repeated for credit)
Prerequisite: PEM 2121
Students will participate in Boot Camp classes that will include aerobic 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)
Experiences 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 2444  Shotokan Karate I
1 sh (may be repeated for up to 3 sh of credit)
Prerequisite: PEM 2444
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.
PET 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

**PEN-Phys Ed Act:Water Snow Ice Courses**

**PEN 1240  Beach Sports I**
3 sh (may not be repeated for credit)

Designed to introduce beach sports to students in order to help
improve overall physical fitness. This entry level class will cover sports
including surfing, body boarding, windsurfing, ocean kayaking, beach
volleyball, surf fishing, and jet skiing. Students will exercise using
various types of beach equipment. Material and supply fee will be assessed.

**PEN 2114  Lifeguard Training**
3 sh (may not be repeated for credit)

Acquaint the students with the skills and knowledge necessary for the
maintenance of a safe environment in aquatic settings. Red Cross
certification is available. Aquatic skills are required. Material and
Supply fee will be assessed (pending approval).

**PEN 2123  Fitness Swimming**
3 sh (may not be repeated for credit)

Designed to refine strokes so the student can swim with more ease,
efficiency, power, and smoothness over greater distances. Ideal for
the swimmer who may wish to enter competition or achieve a higher
fitness level.

**PEO-Phys Ed Act:Obj Cent, Land Courses**

**PEO 2031  Analysis of Individual Sports**
3 sh (may not be repeated for credit)

Practicum in analytical techniques of skills involved in individual sports.
Emphasis is on analysis, instructional design, and application of skills in
a teaching situation.

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

**PEP-Phys Ed Act:Perfo Cent Lan Courses**

**PEP 3505  Non-Traditional Sports**
3 sh (may not be repeated for credit)

Designed for potential physical education teachers, sport
administrators teachers and fitness and conditioning specialists. Sports
administrators. Emphasis on development of game performance and
teaching/coaching skills in the most popular non-traditional sports in
physical education and sports programs. Students are expected to participate in the class by teaching, coaching, practicing and learning sport skills.

**PET-Physical Education Theory Courses**

**PET 1905  Directed Study**
1-12 sh (may be repeated indefinitely for credit)

**PET 2824  Analysis of Team Sports**
3 sh (may not be repeated for credit)

Designed for potential physical education teachers and sports
administrators. Emphasis is on development and understanding of skills in the most popular team sports in physical education and sports programs. Students are expected to participate in the class by teaching, coaching, practicing and learning sport skills. Skills are measured through midterm assessment (no physical performance standards, only cognitive understanding of game performance skills) and lesson assessment (teaching/coaching skill evaluation).

**PET 3020  Foundations of Physical Education and Sport Management**
3 sh (may not be repeated for credit)

For physical education and sport management majors. Designed to
acquaint them with the knowledge and understanding related to the
development of physical education and sport and its significance to modern society.

**PET 3123  Historical Foundations of Sport and Fitness**
3 sh (may not be repeated for credit)

For physical education and fitness and sport coaching majors.
Designed to acquaint them with the knowledge and understanding related to the history and development of physical education, coaching, and physical activity professions.

**PET 3351C  Applied Exercise Physiology**
3 sh (may not be repeated for credit)

Prerequisite: BSC 1085 OR APK 2100C

This course provides an overview of the fundamentals of exercise
physiology, including muscles and muscle adaptation, fuel for exercise,
and the cardiorespiratory system. This course specifically focuses on
the hands-on practical application of these concepts and expands this
knowledge to address the design of training programs for achieving
specific goals. Special consideration of modifications for training
programs, including adjustments for changes in altitude or temperature
and considerations for populations such as children, older adults, and
pregnant women will be discussed.

**PET 3556C  Designing Resistance Training Programs**
3 sh (may not be repeated for credit)

Prerequisite: (PET 3351C OR APK 3110) AND (APK 3110L)

This course outlines and applies the principles of fitness training and
exercise programming. Various types of strength training techniques,
including isometric and eccentric training will be implemented.
Students will learn how and participate in weight training programs
that interact with the other fitness components such as aerobic,
interval, plyometric, and flexibility training. Students will gain hands-on
experience in advanced training techniques, learn how to manipulate
training variables in long-term weight training programming in order to
improve various fitness and health goals.

**PET 3640  Adapted Physical Education and Sport**
3 sh (may not be repeated for credit)

Handicapping conditions and how physical activity is adapted to the
special needs of individuals with these conditions.

**PET 3825  Educational Gymnastics and Dance**
3 sh (may not be repeated for credit)

Provides the physical education major with some fundamental
knowledge and abilities of gymnastics, dance and how to teach these
two areas. Helps the student understand the contribution of dance and
gymnastics to the field of Physical Education.

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

**PET 4092  Skills and Tactics of Sport**
3 sh (may not be repeated for credit)

Skillful performance in games and sports and an understanding of the
tactics in those activities. Students will actively participate in a variety
of games, create modified games, assess game performance, and
apply tactical skills.
Considerations. Techniques and Methods of Coaching are explored.

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 4310C Mechanics of Human Motion
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L OR PET 3351C
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. This course focuses on applied biomechanics and skill development for students in the Fitness and Sport Coaching and Physical Education-Teacher Education (PETE) specializations. Material and supply fee will be assessed for integrated lab.

PET 4434 Physical Education in the Elementary School
3 sh (may not be repeated for credit)
Designed to provide a knowledge base so prospective physical education teachers can plan and implement appropriate activities for the elementary school.

PET 4442 Physical Education in the High School
2 sh (may not be repeated for credit)
Co-requisite: PET 4928
Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities in the high school setting. Material and Supply Fee will be assessed.

PET 4710 Special Methods in Physical Education
3 sh (may not be repeated for credit)
Acquaints student with specific methods, problems, and issues involved in teaching physical education in public schools.

PET 4720 Physical Education in the Elementary School
2 sh (may not be repeated for credit)
Co-requisite: PET 4926
Designed to provide a knowledge base so prospective physical education teachers can plan and implement appropriate activities for the elementary school. Material and Supply fee will be assessed.

PET 4730 Physical Education in the Middle School
2 sh (may not be repeated for credit)
Co-requisite: PET 4927
Designed to provide a knowledge base 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
3-10 sh (may not be repeated for credit)
Prerequisite: (1 AND (1 AND 1 AND 1 AND 1 AND 1 AND 1 AND 1
Fourteen weeks of supervised teaching in a public or private school. Student teaching assignments will be made by application in Teacher Education Student Assessment System. Permission is required.

PET 4765 Theory and Practice of Coaching
3 sh (may not be repeated for credit)
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 4820 Physical Activity for Adolescents
3 sh (may not be repeated for credit)
Designed to provide a knowledge base from which prospective physical education teachers and fitness specialists can plan and implement appropriate physical activities for adolescents and young adults.

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

PET 4926 Practicum I: Elementary School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4720
Students will complete 30 hours of practical observation in elementary school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4927 Practicum II: Middle School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4730
Students will complete 30 hours of practical observation in middle school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4928 Practicum III: High School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4442
Students will complete 30 hours of practical observation in high school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4948 Physical Education Practicum
3 sh (may not be repeated for credit)
Students will complete practical observation and teachings in various physical education levels. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline.

PET 5701 Systematic Observation in Sport and Physical Activity
3 sh (may not be repeated for credit)
Students will learn to use a systematic approach to observe participants during teaching, coaching, and training. 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 Activity Programs
3 sh (may not be repeated for credit)
This course will prepare students to effectively use current theory and administrative techniques to design and implement appropriate physical activity programs. Emphasis is placed on developing and implementing program plans.

PET 5703 Directed Study
1-12 sh (may be repeated indefinitely for credit)
There is no set format and guidelines for each individual project will be determined by the nature of the topic and the guidance of the instructor. Students will be guided toward project completion over two semesters.

PET 5708 Physical Activity Program Development
3 sh (may not be repeated for credit)
The aim of this course is to examine models and current research related to curriculum and program design in physical activity disciplines. This course will provide students with skills that will enable them to interpret, critique, evaluate, and develop physical activity curricula and programs.

PET 5709 Advanced Physical Activity Program Development
3 sh (may not be repeated for credit)
This course will assist students in developing knowledge and skills in the development of health supportive physical activity programs. This course will provide students with skills that will enable them to examine, evaluate, and create physical activity curricula and programs using health as a focus.

PET 5805 Analysis and Supervision in Sport and Physical Activity
3 sh (may not be repeated for credit)
This course prepares students to analyze and supervise teaching, training, and quality in physical activity disciplines.

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

PET 6015 Professional Issues in Physical Activity Disciplines
3 sh (may not be repeated for credit)
This course will assist students in understanding professional issues and concerns that are inherent parts of physical activity professions and to apply that understanding to professional participation and service contributions. Students will analyze and evaluate online professional information, critically analyze physical activity problems, critique and debate complex ethical problems within the field of physical activity, and articulate a sound philosophy for physical activity leadership.

PET 6223 Teaching and Motivation for Physical Activity Leaders
3 sh (may not be repeated for credit)
This course will lead students through the exploration of sport psychology research, particularly in areas that connect psychology and physical activity behavior. Students will connect theory to practice by integrating research and theory into logical coaching and teaching frameworks. Additional content will focus on how training actions impact performance and motivation.

PET 6706 Analysis of Research in Physical Activity Disciplines
3 sh (may not be repeated for credit)
The purpose of this course is to introduce students to various streams of research in physical activity domains and help them understand and critically analyze the quality of that research and its influence on professional activity.

PET 6707 Advanced Research Procedures
3 sh (may not be repeated for credit)
This course is designed to develop the student’s proficiency in conducting independent, original research. This includes protecting research participants, modifying research goals, communicating rationales for changes in a study, collecting data, analyzing statistical data, and advanced scholarly writing.

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

PET 6950 Project in Lieu of Thesis
3 sh (may be repeated for up to 6 sh of credit)
The project in lieu of thesis is a project or activity that makes a significant contribution to the field(s) associated with physical education and human performance fields. Project ideas will be conceptualized and organized by the student and the course instructor. There is no set format and guidelines for each individual project will be determined by the nature of the topic and the guidance of the instructor. Students will be guided toward project completion over two semesters.

PET 7003 Advanced Theoretical Models of Health and Physical Education
3 sh (may not be repeated for credit)
Provides the student with knowledge of common theoretical models used in health and physical education and the skills to use the theories in practice.

PET 7516 Advanced Assessment and Evaluation in Health and Physical Education
3 sh (may not be repeated for credit)
Prepares doctoral students to assess student learning in PreK-12 and higher education settings and to conduct effective program evaluations.

PET 7533 Behavioral Observation Methods in Physical Education and Health
3 sh (may not be repeated for credit)
Students will advance their understanding and application of naturalistic inquiry, systematic observation, and behavioral observation practices in physical education and health settings as used for research, evaluation, and supervisory purposes.

PET 7535 Strategic Planning and Instructional Design in PE and Health
3 sh (may not be repeated for credit)
Examines instructional models, planning theory, and current research related to physical education and health curriculum and instructional design in K-12 schools and in higher education. Students will advance their knowledge, understanding, and application of the process of planning and designing elementary, secondary, and higher education physical education and health programs.

PET 7708 Research on Teaching Physical Education and Health
3 sh (may not be repeated for credit)
Provides students with skills to interpret, critique, and evaluate research in physical education and health teaching. Attention focused on the application of research within the context of physical and health education teaching.
PET 7774  Models of Teaching in Physical Education and Health
3 sh (may not be repeated for credit)
Provides theory and practice in teaching strategies designed to facilitate learner achievement in the cognitive, effective, and psycho motor domains.

**PGY-Photography Courses**

PGY 2401C  Photography as Art Form: Basic Camera
3 sh (may not be repeated for credit)
Basic theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of basic techniques and aesthetic concerns in relation to the photographic image. Includes basic darkroom experience. Invites all students. Material and supply fee will be assessed.

PGY 2801C  Digital Imaging
3 sh (may not be repeated for credit)
This course emphasizes the aesthetic, technical, and conceptual practices of image making using digital media. In the class, students will examine how to perceive, communicate and make digital images in visual culture. This class emphasizes an experimental and conceptual approach to digital image making. Students will be challenged to develop their own visual language and to create unique aesthetic and conceptual experiences to communicate with viewers. This class will consist of lectures, software demonstrations, digital camera demonstrations, studio lighting demonstrations, image making exercises, projects, and readings. Students are evaluated based on their contribution to class discussions, critiques, and their aesthetic, technical, and conceptual development in regards to their digital image making practices.

PGY 3420C  Photo Art II
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C
Development of advanced techniques and concerns in relation to the black and white photographic image. Emphasis on exploration as a means of creative artistic expression. Material and supply fee will be assessed.

PGY 3500C  Photographic Imaging as an Art Form
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C
Theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of techniques, aesthetic concerns, and teaching methodology in relation to the photographic image. Includes darkroom lab experience. For art education students. Material and supply fee will be assessed.

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

PGY 4104C  Creative Darkroom
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C
In-depth exploration of the use of darkroom techniques, procedures, and manipulations as an artistic means to the development of advanced techniques and aesthetic concerns in relation to the altered photographic image. Material and supply fee will be assessed.

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

PGY 4940C  Photography: Personal Directions
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: PGY 2401C
Fosters the development of personal expression within the framework of black-and-white photography as an art form. Covers advanced camera and darkroom techniques, as appropriate to the individual's direction. Material and Supply fee will be assessed.

**PHC-Public Health Concentrations**

PHC 2082  Informatics and Your Health
3 sh (may not be repeated for credit)
Multi-disciplinary exploration of the nature of information - how it is represented, processed, shared, preserved, and protected in tools and applications directly linked to your health and the health of our planet. Identifies enduring principles; examines impacts on individuals and society; provides practice with a variety of digital technologies and data collection strategies; addresses interpreting results of and concerns in human subject research. This course helps students develop integral professional and technical skills, including presentation of ideas through written and verbal communication, within an informatics framework. Students will have the opportunity to focus on a particular technology company or issue as a mechanism for developing critical thinking and teamwork skills.

PHC 4101  Essentials of 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 effect 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  Diseases in Human Populations
3 sh (may not be repeated for credit)
An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling.

PHC 4140  Public Health Planning and Analysis
3 sh (may not be repeated for credit)
This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public's health. The course is also intended to simulate student interest in other public health courses and program offerings. Graduate students will be assigned additional work.
PHC 4340  Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)
An online-multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 5356; graduate students will be assigned additional work.

PHC 4341  Fundamentals of Occupational Safety and Health
3 sh (may not be repeated for credit)
Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 5355; graduate students will be assigned additional work.

PHC 4363  Occupational Safety and Health in the Health Care Environment
3 sh (may not be repeated for credit)
A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in health care, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Permission is required. Offered concurrently with PHC 5351; graduate students will be assigned additional work.

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

PHC 5050  Biostatistics for Public Health
3 sh (may not be repeated for credit)
This is a second course in biostatistics for students in the graduate Public Health program. The topics include descriptive statistics, probability, standard probability distributions, sampling distributions, point and confidence interval estimation, hypothesis testing, power and same size estimation, one and two-sample parametric and non-parametric methods for analyzing continuous or discrete data, simple linear regression, logistic regression and other multivariate methods. Students will use a statistical software package for data management and statistical analyses. This is a fully online course with its own office hours and discussions. STA 2023 or equivalent is a pre-requisite for this course (see UWF Catalog). It is important to have a good understanding of inferential statistics, such as confidence intervals and test of hypotheses (for two samples). Students must have completed STA 2023 or equivalent in college.

PHC 5102  Principles of 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  Monitoring and Evaluation in Global Health
3 sh (may not be repeated for credit)
Familiarizes students with different types of program evaluation, including needs assessment, formative research, process evaluation, monitoring of outputs and outcomes, impact assessment, and cost analysis. Students gain practical experience through a series of exercises involving the design of a conceptual framework, development of indicators, analysis of computerized service statistics, and development of an evaluation plan to measure impact. The course experimental, quasi-experimental, and non-experimental study designs, including the strengths and limitations of these designs in population and global health practice.

PHC 5123  Biological Basis of Public Health
3 sh (may not be repeated for credit)
An overview of scientific principles of public health and their application to public health problems with significant state, national and international impact. It is recommended that students have at least one semester of a college science such as, biology or a comparable course before enrolling.

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.
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.

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.

The course will introduce students to the main concepts of the public health field and the critical links between global health and social and economic development. Students will get an overview of the determinants of health, and how health status is measured. Students will also review the burden of disease, risk factors, and key measures to address the burden of disease in cost-effective ways. The course will review specific topics related to the most important communicable and non-communicable diseases as well as issues related to food distribution, reproductive health and other global major health concerns with an important focus on low- and middle-income countries and on the health of the poor. We will also discuss cross-cutting global health issues such as poverty and equity, human rights and ethical issues in public health; globalization and health and complex emergencies.

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.

The course is designed to give the student current and comprehensive information on the epidemiology, etiology, pathogenesis, risk factors and preventive measures of common chronic diseases at the population level. The course will cover selected topics in chronic disease with an emphasis on disease occurrence in the United States, Florida and the current status of local research projects.

The course focuses on the impact of urbanization and the transmission of disease-causing organisms, as well as the interaction between human behavior and environmental changes on population health. Factors such as overcrowding, access to quality housing, modernized urban amenities, lifestyle choices and sanitation(WASH) contribute to the spread of disease in urban areas in developed and low-to-middle income countries.

The course explores general principles of planning, management, and evaluation of health care programs, policies and interventions implemented by public and private organizations. The basic conceptual frameworks underlying healthcare decision making and assessment of the financing, organization, outcomes and delivery of healthcare services are presented.

This course provides an overview of computer applications software for public health and health-related data. Fundamentals of data 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.

The course covers research design and methods commonly used in epidemiology and public health research. The course covers both quantitative and qualitative research designs, including, observational, quasi-experimental, and experimental designs used in epidemiological investigations. Methods for reliable and valid data collection and analysis will be covered. Common statistical methods for the analysis of public health data are discussed.

An online course presenting an overview of geographic information systems for the analysis of public health data. Course imbeds learning how to use GIS software in the context of carrying out projects for visualizing and analyzing health-related data. Part of the Master of Public Health degree program.

This course provides an overview of computer applications software for public health and health-related data. Fundamentals of data 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.

Students will be given an overview of the chemical, physical, and biological hazards present in our living and working environment and their effects on human health. Credit may not be received in both PHC 6300 and PHC 6018.
PHC 6310  Environmental Toxicology
3 sh (may not be repeated for credit)
Environmental toxicology is the study of the effects of toxic substances on health and the environment. The student will recognize that human survival depends upon the well-being of other species and upon the availability of clean air, water, and food; and anthropogenic, as well as naturally occurring, chemicals can have detrimental effects on living organisms and ecological processes. Concepts to be covered include occurrence of toxicants, damage process and action of toxicants, factors affecting xenobiotic action, defense responses to toxicants, and others. Will also examine chemicals of environmental interest and how they are tested and regulated. Case studies and special topics will be examined.

PHC 6347  Aerospace and Occupational Toxicology
3 sh (may not be repeated for credit)
Part of the MPH program for military Residents in Aerospace Medicine.

PHC 6360  Accident Investigation and Risk Management
3 sh (may not be repeated for credit)
Accident Investigation & Risk Management includes an aerospace safety overview, biomechanics of impact, restraint systems, crew protection, and crew escape concepts, aviation and space vehicle crashworthiness, aerospace injury mechanisms, conduct of an accident investigation, forensic concepts, legal issues, and promoting prevention strategies to avoid future accidents. Students in MPH degree program, and need special permission from instructor.

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

PHC 6945  Internship in Public Health I
3 sh (may not be repeated for credit)
Prerequisite: PHC 6946

This course is an internship in a public health agency or setting. It is completed under the supervision of an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor. The student 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 written report on the internship experience is required, along with an oral presentation before a committee of MPH faculty. The course is graded on a Satisfactory / Unsatisfactory scale. Permission is required.

PHC 6946  Internship in Public Health II
3 sh (may not be repeated for credit)

This is the second of a two course sequence. In the second course the student develops a project report based on practical activities completed during PHC 6946: Internship in Public Health I and be making satisfactory progress in the course. This is done under the supervision by an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor. The student develops the report on the internship experience and presents the project report, including a virtual poster before a committee of MPH faculty. Students can only register for Internship II in the last semester of enrollment. The student must Graded on a satisfactory / unsatisfactory basis only.

PHH-Philosophy: History Courses

PHH 3100  Greek Philosophy
3 sh (may not be repeated for credit)
Development of ancient Greek philosophy; pre-Socratic, Plato, Aristotle and Hellenistic philosophy. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

PHH 4600  Contemporary Philosophy
3 sh (may not be repeated for credit)
20th century developments in philosophical thought. May include logical positivism, linguistic analysis and phenomenological analysis.

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

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

PHI-Philosophy Courses

PHI 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHI 2010  Introduction to Philosophy
3 sh (may not be repeated for credit)

PHI 2103  Critical Thinking
3 sh (may not be repeated for credit)
This course will introduce students to the fundamentals of critical thinking, argument, conceptual analysis and evidence. Students will learn how to think critically, read actively, and write persuasively across a variety of contexts. Appropriate for and applicable to any major. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement.

PHI 2603  Ethics in Contemporary Society
3 sh (may not be repeated for credit)
Explores the fundamental problems of Western ethics, the classical and Judeo-Christian traditions, modern ideals of the good for the individual business, politics and the environment. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

PHI 3400  Philosophy of Science
3 sh (may not be repeated for credit)
Concepts and types of explanation used in sciences. May include differences between natural and social sciences, inductive reasoning and scientific explanation, and relation of science to society.

PHI 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"? Meets Gordon Rule Writing Requirement.

PHI 3500  Metaphysics: Furniture of the Universe
3 sh (may not be repeated for credit)
Metaphysics is the study of everything. Hence this course is about all the stuff in the universe, and perhaps even some stuff not in the universe. It would probably be fair to say that metaphysics is concerned with identifying what the furniture of the universe is. Additionally, metaphysicians worry about not just what the actual furniture of the universe is, but what are the possible kinds of furniture that may populate the universe. Metaphysics also seeks to uncover the fundamental principles that govern reality (and possible ?realities?). Due to the vastness of the domain of metaphysical topics, we will restrict our attention to a small sample of topics?ones that are, or should be, near and dear to us for they bear on our lives as citizens of the universe. For example, do you have free will? Do you have a mind? Do numbers exist? Is time travel possible? What is time, anyway? Are there naturally occurring categories of stuff in the universe? Could the world have turned out differently than it did? A well rounded background in philosophy includes, among other things, conversation with central topics in metaphysics; this course aims to provide just that. Offered Fall and Spring semester only. Meets Gordon Rule Writing Requirement.

PHI 3640  Environmental Ethics
3 sh (may not be repeated for credit)
Introduces students to issues and problems in the field of environmental ethics. Theories of value are investigated in the effort to clarify the interrelations between humanity and nature. Discussions concerning the moral status of the non-human community will not be restricted to debates over value theory alone, but will also encompass metaphysical issues that bear upon environmental problems. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

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. Meets Gordon Rule Writing Requirement.

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

PHI 4300  Theory of Knowledge
3 sh (may not be repeated for credit)
Various theories of relation between human knowledge and reality; empirical, rationalistic, linguistic and phenomenological. Meets Gordon Rule Writing Requirement.

PHI 4633  Biomedical Ethics
3 sh (may not be repeated for credit)
Designed to introduce students to the moral and conceptual foundations of ethics, to various ways of analyzing selected problems in the field, and applications of various theories to the professions. Meets Gordon Rule Writing Requirement.

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

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

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

**PHM-Philosophy of Man Soc Courses**

PHM 3200  Social and Political Philosophy
3 sh (may not be repeated for credit)
Social and political theories and ideals that have influenced development of Western man; significance of these for contemporary society. Meets Gordon Rule Writing Requirement.

PHM 4020  Philosophy of Sex and Love
3 sh (may not be repeated for credit)
Intended to familiarize you with the major philosophical and moral issues surrounding our sexuality and its attendant emotions. Will draw upon thinkers from within the history of Western Philosophy and psychology - including Plato, Augustine, Kant, Freud, DeBeauvoir and Nagel. Meets Gordon Rule Writing Requirement.

PHM 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
PHM 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHP-Philosophers Schools Courses

PHP 3786  Existentialism
3 sh (may not be repeated for credit)

Basic concepts and ways of experiencing the world through various existential writers. May include Hegel, Kierkegaard, Nietzsche, Jaspers, Sartre, Heidegger and Merleau-Ponty.

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

PHT-Physical Therapy Courses

PHY-Physics Courses

PHY 1020  Introduction to Concepts in Physics
3 sh (may not be repeated for credit)

An introductory survey of the natural laws of the universe. Presents the basic concepts associated with the scientific method, force and motion, matter and energy, electricity and magnetism, the atom and the solar system. Open to elementary education and other non-science majors. Meets General Education requirement in Natural Sciences.

PHY 1020L  Introduction to Concepts in Physics Laboratory
1 sh (may not be repeated for credit)

An introductory laboratory providing hands-on experience with basic experiments in physics involving the concepts of force and motion, matter and energy, electricity and magnetism, and the atom. Open to elementary education and other non-science majors.

PHY 2048  Calculus-Based Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Co-require: MAC 2312

Physics with Calculus I is the first of a two-semester sequence of calculus-based physics topics for scientists and engineers. The principal subject of this course is mechanics, the science of motion. The topics covered will be the kinematics and dynamics of particles and rigid bodies, conservation laws and principles, gravity, and oscillations. Meets General Education requirement in Natural Sciences.

PHY 2048C  University Physics I - Studio
5 sh (may not be repeated for credit)
Prerequisite: MAC 2311

University Physics I - Studio course is intended for physical science majors and engineers, and designed to be taken as a sequence with University Physics II (PHY 2049). This is a calculus based physics course. The principal topics covered in this course are mechanics-the science of motion- (kinematics and dynamics) of particles and rigid bodies including the laws of motion, conservation laws and principles, gravity, oscillations, fluid statics, and Thermodynamics. Meets General Education requirement in Natural Sciences.

PHY 2048L  Calculus-Based Physics I Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048
Co-require: PHY 2048

Selected experiments in mechanics, oscillatory motion, and heat. Satisfies Florida Common Core Natural Sciences requirement.

PHY 2049  Calculus-Based Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048

Continuation of PHY 2048. Electrostatics and magnetism; basic electric circuits; optics; selected topics in modern physics. Meets General Education requirement in Natural Sciences.

PHY 2049C  University Physics II with Lab
6 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048C

University Physics II is the second of a two-semester sequence of physics topics chosen as an introduction to this science. This is a calculus-based physics course. The topics covered will be electricity and magnetism, basic electric circuits, electromagnetic waves, and optics. University Physics II is designated as a General Education course. The General Education curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting the requirement in Natural Sciences. The General Education learning outcomes for this course are Problem Solving and Quantitative Reasoning. Meets General Education requirement in Natural Sciences.

PHY 2049L  Calculus-Based Physics II Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048/L AND PHY 2049*

Selected experiments in optics, electricity, and magnetism.

PHY 2053  Algebra-Based Physics I
3 sh (may not be repeated for credit)
Prerequisite: (MAC 1105 AND MAC 1114) OR (MAC 1114 AND MAC 1140) OR MAC 1147 OR MAC 2311

Algebra-Based Physics 1 is the first of a two-semester sequence of physics topics chosen as an introduction to this science. This is an algebra and trigonometry based physics course. Structure and properties of matter; kinematics, dynamics and statics; momentum and energy; rotation; elasticity; fluids; temperature and expansion, heat transfer, thermal behavior of gases; oscillations; wave motion and sound. Meets General Education requirement in Natural Sciences.

PHY 2053L  Algebra-Based Physics I Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2053*

Selected experiments in mechanics, oscillatory motion, and heat.

PHY 2054  Algebra-Based 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. Meets General Education requirement in Natural Sciences.

PHY 2054L  Algebra-Based Physics II Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2054*

Selected experiments in optics, electricity, and magnetism.

PHY 2905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
PHY 3106   Modern Physics I
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049
Introduction to modern physics, theory of relativity, electromagnetic waves and photons, matter waves, quantum theory, atomic structure, quantum mechanics.

PHY 3106L  Intermediate Laboratory
2 sh (may not be repeated for credit)
Prerequisite: PHY 2049/L
Selected experiments in modern physics and optics. Material and supply fee will be assessed. A minimum grade of a C or better is required for all prerequisite courses.

PHY 3107   Modern Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302* AND PHY 3106
Special topics in modern physics: quantum mechanics, atomic structure, molecular structure, atomic and molecular spectra, physics of solids, and band structure, nuclear structure, nuclear forces, radioactive decay and nuclear reactions, elementary particles, and fundamental interactions. A grade of C or better is required for all prerequisite courses.

PHY 3220   Intermediate Mechanics
4 sh (may not be repeated for credit)
Prerequisite: MAP 2302* AND PHY 2048
Particle mechanics in 1, 2 and 3 dimensions for various forces. Central forces and celestial mechanics. Systems of many particles. Rigid body dynamics. Introduction to Lagrangian methods.

PHY 3424   Optics
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049
Geometrical, physical, and modern optics. Polarization, interference, diffraction, holography, and optical fibers. A grade of C or better is required for all prerequisites.

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

PHY 4323   Electricity and Magnetism I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MAP 2032 AND PHY 2049 AND PHZ 4113
Electrostatics, Gauss's Theorem, magnetic fields, Biot-Savart Law, electromagnetic induction, introduction to Maxwell's Equations, and electromagnetic waves. A grade of C or better is required for prerequisite courses.

PHY 4325   Electricity and Magnetism II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4323
Continuation of PHY 4323 Electricity & Magnetism I. Maxwell's equations and electromagnetic waves in vacuum and in a medium, radiation from dipoles and antennas, transmission lines, wave guides, relativistic electrodynamics, Lienard-Weichert Potentials. A grade of C or better in pre-requisite courses is required.

PHY 4445   Lasers and Applications
3 sh (may not be repeated for credit)
Prerequisite: PHY 3424 AND PHZ 4113
Introduction to lasers and applications covering topics on nature of light, photons, elements of semi-conductor physics, modulation of light, displays, laser principles, types of lasers and their design, photodetectors, fiber optics, optical communications. A grade of C or better is required for all prerequisite courses.

PHY 4513   Thermodynamics and Kinetic Theory
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND PHY 2048 AND PHZ 4113*
Laws of thermodynamics, thermodynamic potentials, kinetic theory of gases, Maxwell-Boltzman distribution, introduction to Bose Einstein and Fermi-Dirac statistics. A grade of C or better is required for all prerequisite courses.

PHY 4604   Quantum Theory I
3 sh (may not be repeated for credit)
Prerequisite: PHY 3107 AND PHZ 4113
This is the first semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics and is an introduction to the main concepts and tools for applying quantum mechanics to a variety of different problems. A minimum grade of a C or better is required for all prerequisite courses.

PHY 4605   Quantum Theory II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4604
This is the second semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics. This course emphasizes the application of quantum mechanics to a variety of problems. Offered Spring semester only.

PHY 4822L  Advanced Laboratory
2 sh (may not be repeated for credit)
Prerequisite: PHY 3106L AND PHY 3107
Advanced laboratory topics are treated. Modern physics laboratory equipment is used to introduce students to current laboratory practices.

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

PHY 4910   Undergraduate Research
1-2 sh (may be repeated for up to 10 sh of credit)
Prerequisite: PHY 2049
Undergraduate experimental or theoretical research under the direction of physics faculty.

PHY 5905   Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

PHZ-Physics (Continued) Courses

PHZ 3108L  Intermediate-Level Physics Problems
1 sh (may not be repeated for credit)
Prerequisite: PHY 3106
Practicum in the art of solving problems across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core. A grade of C or better is required for all prerequisite courses.
PHZ 3151C  Introduction to Scientific Computing
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048

Scientific computation relevant to science, mathematics, and
engineering, with emphasis on the process of modeling, simulation,
visualization, and evaluation.

PHZ 4113  Mathematical Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND MAC 2313*

Algebra of complex numbers, Taylor series, linear algebra, vector
algebra and calculus, and curvilinear coordinates. A grade of C or
better is required for prerequisite courses.

PHZ 4114  Mathematical Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302 AND PHZ 4113

Fourier series, special functions, boundary value problems, partial
differential equations, series solutions, and integral transforms. A
grade of C or better is required for prerequisite courses.

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

PLA-Paralel/Legal As/Legal Adm Courses

PLA 2013  Survey of American Law
3 sh (may not be repeated for credit)

Study of American law, focusing on why there are laws, as well as who
makes and enforces the laws. Covers what is commonly known as
"everyday law," that is, how law affects us in our daily lives. Credit may
not be earned in both PLA 2057 and PLA 2013. This course surveys
the main areas of procedural and substantive law and provides an
overview of the practice of law. Meets General Education requirement
in Social Sciences. Meets General Education requirement in Social
Sciences.

PLA 3020  Law and Society
3 sh (may not be repeated for credit)

Exploration of the evolution of laws in the American legal system
related to complex social issues. Exploration of how the structure of the
American legal system responds to diverse and dynamic social
structures. Examination of how individual differences affect perceptions
of justice and the role of the justice system in American society.

PLA 3021  Law and Film: Fact or Fiction
3 sh (may not be repeated for credit)

Films chosen illustrate the realities of the legal system, the concept of
justice, the involvement of various stakeholders in the system and the
merit or lack of merit of character's decision-making. Films highlight the
practice of law, stakeholders, judicial processes, as well as interactions
with society and politics.

PLA 3020  Legal Research and Writing
3 sh (may not be repeated for credit)
Prerequisite: (PLA 2013) AND (PLA 3020 OR PLA 3703 OR PLA 4263
OR PLA 4885)

Legal Research and Writing 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. Legal Research and Writing is designed to
introduce skills needed in order to become proficient in legal research.

PLA 3240  Alternative Dispute Resolution
3 sh (may not be repeated for credit)

Introduction to different alternative dispute resolution (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.

PLA 3429  Contracts and Business Entities
3 sh (may not be repeated for credit)

Overview of contract law, and law related to business entities such as
corporations, partnerships, and sole proprietorships.

PLA 3471  Employment Law
3 sh (may not be repeated for credit)

Designed for students interested in the subject of employment law
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 of the course will be on the
basic laws of employment discrimination, employee rights, and the
means and methods of seeking the protections of those laws, and the
means and methods of employers assuring compliance with the laws.

PLA 3583  Cyber Law
3 sh (may not be repeated for credit)

Examines legal aspects of the law related to the Internet, including
intellectual property rights, online jurisdictional issues, privacy and
the first amendment in an online world. Domain name rights, and e-
commerce will be explored.

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)

Students will explore ethics as it relates to attorney/paralegal conduct
in legal systems in the United States.

PLA 3806  Family Law
3 sh (may not be repeated for credit)

The law of family relations (a.k.a. domestic relations) including
marriage, divorce, support, property division and annulment will be
covered in depth using Florida law as a basis. The collateral topics
of adoption, paternity and child abuse/neglect will also be addressed
briefly.

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

A cooperative effort between the UWF Legal Studies Program and
a public, government or non-profit law office. Allows students the
opportunity to focus on various learning objectives in a potential
career field. The Field Study/Service Learning student will work
under the overall supervision of a practicing attorney consistent with
R. Regulating Fla. Bar 4-5.3 regarding supervision of non-lawyer
assistants. Permission of faculty is required.
PLA 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4 sh of credit)
A cooperative effort between the UWF Legal Studies Program, the
UWF Center for Learning Through Volunteer Efforts (CLOVE), and
a public or private law-related office. Allows students the opportunity
to focus on various learning objectives in a potential career field.
Students work under the overall supervision of a licensed attorney or
other legal professional at the placement site. Permission is required.

PLA 4155  Legal Advocacy
3 sh (may not be repeated for credit)
Prerequisite: PLA 3103
Emphasis is on improving persuasive advocacy and legal writing
ability through the use of both practical writing assignments and
oral advocacy, including case briefs, legal correspondence, legal
memoranda, and trial briefs. Meets Gordon Rule Writing Requirement.
Meets Gordon Rule Writing Requirement.

PLA 4204  Civil Procedure
3 sh (may not be repeated for credit)
Civil litigation in the Florida and Federal courts. Covers substantive
civil law, Florida and Federal rules of civil procedure and related
matters from initial interview through pre-trial preparation including
drafting of pleadings and preparing discovery.

PLA 4225  Trial Practice
3 sh (may 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)
This course covers the criminal law, with a particular focus on the core
elements of a crime, types of crimes against persons and property, and
criminal defenses.

PLA 4309  Criminal Procedure
3 sh (may not be repeated for credit)
The study of criminal procedure examines the power of the
government to enforce the criminal law versus the right of individuals
to be free from government intrusion as guaranteed by the Constitution.
This course explores the legal framework for the enforcement of
criminal law and the variety of roles that are played throughout the
process.

PLA 4554  Environmental Law and Jurisprudence
3 sh (may not be repeated for credit)
The evolution of both American and international environmental law
is explored through a review of the basic, existing environmental
laws and regulations, with a jurisprudential/philosophical look at
the underlying issues and principles of environmental law, using an
interdisciplinary approach.

PLA 4607  Wills, Estates, and Trusts
3 sh (may not be repeated for credit)
This course will provide an overview of the law related to wills, estates,
and trusts. Various sources of law will be examined, in particular,
statutes, case law, and uniform laws.

PLA 4843  Immigration Law
3 sh (may not be repeated for credit)

PLA 4885  Constitutional Law for the Legal Professional
3 sh (may not be repeated for credit)
The study of the U.S. Constitution and the major Supreme Court cases
interpreting it, focusing on the current status of the law. 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 Protection. Will be
focusing on issues confronted in modern courts and law office. Credit
may not be received in both PLA 4885 and PLA 4880.

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

PLA 4933  Special Topics in Legal Studies
3 sh (may not be repeated for 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
1-6 sh (may be repeated for up to 6 sh of credit)
Prerequisite: PLA 3103 AND PLA 3703 AND PLA 4204 AND PLA 4263
The Legal Studies Internship is a cooperative effort between the Legal
Studies Program at UWF and a public or private law-related office. The
purpose is to give students the opportunity to apply their education
to actual work situations. The student intern works under the overall
supervision of a licensed attorney.

PLA 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

POR-Portuguese Courses
POR 1905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

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

POR 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
POS-Political Science Courses

POS 2041  American Politics
3 sh (may not be repeated for credit)
Deals with the constitutional principles on which the republic was founded, the evolution of institutions which emerged after 1789, and the development of processes and policies in response to 20th Century challenges and changes in the political culture. Meets General Education requirement in Social Sciences.

POS 3013  Career Development and Professional Standards in Social Science
3 sh (may not be repeated for credit)
This course focuses on preparing students for career success in industries employing social science majors. Crucial skills such as appropriate attire, conduct, portfolio construction, policy evaluation, and other general professional development abilities are emphasized. The first portion of the class reinforces academic writing standards in the Political Science/International Studies disciplines, where students learn appropriate citations, research standards, paper design, and other elements essential for success in upper division courses. The second portion of the class assesses each student’s individual strengths, weaknesses, and interests, offering improvements where appropriate. Students also learn how to market their unique skill sets, along with how to professionally brand themselves online. The instructor coordinates closely with Career Services for in-class visits and on-site visits to local employers.

POS 3033  Analyzing Issues in American Politics
3 sh (may not be repeated for credit)
From the education of our children to the safety of our airlines, those who make the laws affect each of our lives on a daily basis. Rarely, however, is the public aware of the process by which new ideas become law of the reasons why archaic policy solutions are left unchanged. A survey of contemporary issues in American politics such as energy and the environment, education, health care, welfare programs, crime and the economy. Throughout the semester, we will grapple with competing theories and competing methodologies for describing, analyzing, and evaluating what governments do in the political world in which we currently live.

POS 3235  Politics and Media
3 sh (may not be repeated for credit)
This course will study several major questions about the role of the media in society, and specifically in politics. Readings will address the media’s purpose in society as the fourth branch of government; ownership and regulation of the media; legal protections for free speech; and the process of news production. In addition, readings and class assignments will explore special topics related to the media. What is the history and future of the media in a changing technological environment? How are elections and public policy decisions impacted by the media? How does the media influence us individually? What are the effects of negativity in the media? How can one detect bias in the media, and how can one recover from its effects? Additionally, readings and assignments will explore the production of foreign affairs news coverage and its impact on voters.

POS 3270  Elections and Campaigning
3 sh (may not be repeated for credit)
This course is designed to introduce students of American politics to the practical side of campaigns and elections. The class will undertake an extensive examination of the local, state, and national elections to be held during the fall by focusing on candidates, parties, interest groups, and the media as well as some of the new influences in elections such as political consultants and pollsters. The focuses on the electoral process as well as the primary and general phases of American elections.

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 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 3613  Constitutional Controversies
3 sh (may not be repeated for credit)
The American Founders established a Supreme Court to resolve all cases and controversies arising under the federal Constitution and its subsequent laws and treaties. This Court would serve primarily as an appellate tribunal, a court of last resort, reviewing and remanding, reversing or upholding the rulings of lower courts in both the federal and state judiciaries. In this course we will examine those elements of the appellate process on constitutional law, including the Court’s review of petitions of certiorari, of merits briefs and the corresponding amici briefs and oral argument.
POS 3624  Constitutional Law: Individual Rights and Privileges  
3 sh (may not be repeated for credit)

This course provides 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 various legal approaches to 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)

This course focuses on the First Amendment freedoms. Among specific subjects to be examined are: 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 form the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Secondly, this course will examine the contemporary participation of women in American political institutions. It will examine the character and substance of women's participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 4602  The Founders' Constitution  
3 sh (may not be repeated for credit)

Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress. This course is offered concurrently with POS 5637; graduate students will have additional work.

POS 4673  Jurisprudence  
3 sh (may not be repeated for credit)

A survey of various approaches to theorizing about the Concept of Law. The Natural Law, Legal and Analytical Positivist, Sociological, Realist, and Critical Legal Studies approaches will be studied. In addition, concepts of Justice will be considered.

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

POS 4941  Internships  
1-6 sh (may be repeated for up to 6 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 5637  The Founders' Constitution  
3 sh (may not be repeated for credit)

Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress. This course is offered concurrently with POS 4602; graduate students will have additional work.

POS 6006  The Study of Politics  
3 sh (may not be repeated for credit)

Introduces the graduate study of political science. It concerns "scope" more than "method," and the range is broad, focusing on what political scientists do-teach, research, advise, and serve. Concerns embrace every conceivable level-local, regional, national, cultural, global, planetary.

POS 6045  Seminar in American Politics  
3 sh (may not be repeated for credit)

Course content includes an overview of the institutions and processes of the American political system, the trend and tendencies of political behavior, and the diverse theoretical understandings of American government in the world of political science. Focus is on understanding and critically evaluating interpretations of the structure and function of our governmental system, including: the three branches of government, elections, political socialization and civic engagement, representation, political parties, and interest mobilization.

POS 6116  State and Local Government Principles and Practices  
3 sh (may not be repeated for credit)

This course will focus on variation in the way state and local governments are designed to work and the way levels of government interact. We will begin by reviewing the powers granted to the states in the Constitution. We will compare state constitutions and look at their similarities and differences. We will take a detailed look at state governments, particularly state legislatures, governors, and state courts; and local governments and party organizations. We will also compare states and localities in the context of policy on education, health care, crime, and the environment.

POS 6704  Political Science Research Methods  
3 sh (may not be repeated for credit)

Methods and logic of research in political science. POS 6704, Political Science Research Methods provides students with the knowledge and skills required to analyze and critique, as well as design, applied research in public policy and public affairs. The course introduces the student to the enterprise of academic research in these areas, provides the student with knowledge and understanding of the various philosophical and methodological approaches to applied research and allows the student to develop and hone analytical skills. Accepted social science research designs will be introduced and an analysis of threats to the validity and reliability of these different designs will be considered. Sampling theory and statistical analysis will be introduced.

POS 6905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)
POS 6940  Internship
2-6 sh (may not be repeated for credit)

The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-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 sh of credit)

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

POT-Political Theory Courses

POT 3103  Law and Politics in Literature
3 sh (may not be repeated for credit)

Discussion of law and politics within history's most prominent literary works. Examination of the rule of law within political life in relation to character and plot development. Exploration in the ways in which literature illustrates the challenges posed by human nature to the just administration of law.

POT 4013  Ancient Masters of Political Thought
3 sh (may not be repeated for credit)

A survey of several of the seminal works by political theorists of the ancient and medieval period, including Plato, Aristophanes, Xenophon, Aristotle, Cicero, and St. Augustine. Readings will introduce such themes as the classification of regimes, the debate between the poets and the philosophers, the role of the virtues in perpetuation of civic order, the problem of the many and the one, the tension between the philosopher and the city, the problems of justice, the ideas of Nature and human nature, and the status of the gods and/or religion in political life. Graduate course POT 5016 will have additional work. Course only offered Fall semester.

POT 4204  American Political Thought
3 sh (may not be repeated for credit)

Significant American political theorists and schools of thought; their influence on the political system. Offered concurrently with POT 4204; graduate students will be assigned additional work.

POT 4354  Contemporary Political Philosophy
3 sh (may not be repeated for credit)

This course explores contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man: reading Thomas More's Utopia, S. Lewis' The Abolition of Man, Aldous Huxley's Brave New World, and other works, students will explore the American infatuation with scientific progress and the implications for our self-understanding and our shared sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POT 4601  Modern Masters of Political Thought
3 sh (may not be repeated for credit)

Evaluates ideas about the origin, justification, organization, and performance of government by great thinkers from Machiavelli to the present. Offered concurrently with POT 5602; graduate students will be assigned additional work.

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

POT 5016  Seminar in Political Theory
3 sh (may not be repeated for credit)

A survey of several of the seminal works by political theorists of the ancient and medieval period, including Plato, Aristophanes, Xenophon, Aristotle, Cicero, and St. Augustine. Readings will introduce such themes as the classification of regimes, the debate between the poets and the philosophers, the role of the virtues in perpetuation of civic order, the problem of the many and the one, the tension between the philosopher and the city, the problems of justice, the ideas of Nature and human nature, and the status of the gods and/or religion in political life. Offered Fall semester only.

POT 5207  American Political Thought
3 sh (may not be repeated for credit)

Significant American political theorists and schools of thought; their influence on the political system. Offered concurrently with POT 4204; graduate students will be assigned additional work.

POT 5355  Contemporary Political Philosophy
3 sh (may not be repeated for credit)

This course explores contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man: reading Thomas More's Utopia, S. Lewis' The Abolition of Man, Aldous Huxley's Brave New World, and other works, students will explore the American infatuation with scientific progress and the implications for our self-understanding and our shared sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POT 5602  Modern Masters of Political Thought
3 sh (may not be repeated for credit)

Evaluates ideas about the origin, justification, organization, and performance of government by great thinkers from Machiavelli to the present. Offered concurrently with POT 4601; graduate students will be assigned additional work.

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

PPE-Personality Courses

PPE 4003  Theories of Personality
3 sh (may not be repeated for credit)

Prerequisite: PSY 2012

Assumptions, structure, dynamics and determinants of personality. Consideration of various personality theories, pertinent research and its application to everyday life.

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

PPE 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
PSB-Psychobiology Courses

PSB 4002  Brain, Behavior, and Experience  
3 sh (may not be repeated for credit)  
Introduction to the brain and its relationship to behavior and experience. Topics covered: structure and function of the nervous and endocrine systems, sensation / perception, emotion and motivation, thinking and consciousness, learning and memory, malfunctions of the mind.  

PSB 4731  Psychobiology of Sexual Behavior  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 1005/L AND DEP 2004 AND PSY 2012  
Study of biological and sociocultural determinants of sexual development throughout the human life span. Special emphasis is given to sexual orientation, sexual preference, sexual variance, and purported gender differences.  

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

PSB 5035  Cognitive Neuroscience  
3 sh (may not be repeated for credit)  

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

PSY-Psychology Courses

PSY 2012  General Psychology  
3 sh (may not be repeated for credit)  
A survey of methods, theories, and body of knowledge of contemporary psychology, including such topics as learning, motivation, sensation and perception, development, thinking, personality, social behavior, psychological adjustment, and methods of therapy. Meets General Education requirement in Social Sciences.  

PSY 2023  Professional Development in Psychology  
3 sh (may not be repeated for credit)  
This course will provide students with an overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor degree in psychology, and career options for students who pursue a graduate degree in psychology. Skills required for library research, writing in the style of the American Psychological Association, professional communication, and ethical and professional issues will be discussed. Must earn a C or higher to pass the course. Meets Gordon Rule Writing Requirement.  

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

PSY 3213  Research Methods in Psychological Science I  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012 AND STA 2023*  
The first course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a basic or descriptive understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed. Meets Gordon Rule Writing Requirement.  

PSY 3215  Research Methods in Psychological Science II  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012 AND PSY 3213 AND STA 2023  
The second course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a more complex or inferential understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.  

PSY 3680  Positive Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012  
The scientific study of positive experience including a review of the historical and philosophical foundations of positive psychology and of its contributions to traditional research and practice areas in psychology. Specific emphasis is on the applied positive psychology perspective of the pursuit of the good life, health and well-being, positive psychology at work, clinical psychology and psychotherapy, and positive development across the lifespan. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.  

PSY 3860  Positive Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012  
The scientific study of positive experience including a review of the historical and philosophical foundations of positive psychology and of its contributions to traditional research and practice areas in psychology. Specific emphasis is on the applied positive psychology perspective of the pursuit of the good life, health and well-being, positive psychology at work, clinical psychology and psychotherapy, and positive development across the lifespan.  

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

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 4302  Psychology of Assessment  
3 sh (may not be repeated for credit)  
Fundamentals of testing and measurement of aptitude, achievement 
and personality. STA 2023 is recommended prior to taking this course. 
Credit may not be received in both PSY 4302 and PSY 4383.  
PSY 4832  Sport and Exercise Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 2012  
Introduces students interested in psychology, exercise science, 
physical education, sports medicine, coaching, athletic training or 
fitness instruction, to principles of psychology as applied to sports 
and exercise. Topics covered include methods of performance 
enhancement and mental training, exercise adherence, violence in 
sports, effects of sports on children, team dynamics, and drug and 
steroid use among athletes.  
PSY 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
PSY 4930  Capstone in Psychology: Special Topics  
3 sh (may not be repeated for credit)  
The objectives of the capstone courses will provide students an 
opportunity to: 1) study a target area in psychology in depth 2) 
integrate knowledge and skills across courses, and 3) prepare an 
effective pursuit strategy for a meaningful psychology-related career 
Student must earn a C or higher to pass the course.  
PSY 5016  Conjunctive Psychology  
2 sh (may not be repeated for credit)  
A practical and integrated overview of the fundamental dynamics 
of human behavior and consciousness, drawing from all the world's 
psychologies, and emphasizing contributions not well known in 
Western Psychology. Topics include breathwork, nutrition, ayurveda, 
pranayama, chi kung, chakras, yoga, behaviors of the mind, states and 
levels of consciousness, self and will, and transpersonal awakening, 
and their applications in professional settings.  
PSY 5016L  Conjunctive Psychology Laboratory  
1 sh (may not be repeated for credit)  
Co-requisite: PSY 5016  
Practical experience and skill training that parallel topics of the lecture 
course. Grading is based on attendance and participation, and 
contribution to the class.  
PSY 5905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
PSY 6217  Research Design in Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: STA 2023  
This course focuses on quantitative research approaches with 
particular attention given to the selection of procedures for obtaining 
empirical data that provide meaningful answers to research questions 
and to the relation between research design and statistical analysis. 
Topics include researching the literature, developing research 
questions, designing and evaluating empirical research, and 
communicating research methods and results in standard technical 
format (APA style). Ethical issues in the conduct of research will be 
addressed.  
PSY 6905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
PSY 6917  Supervised Research  
1-3 sh (may be repeated for up to 12 sh of credit)  
Credit is earned by serving in an apprenticeship position under a 
faculty member and assisting with one or more research projects. 
Although the student may enroll in more than one supervised 
experience in research or teaching (see PSY 6940), a maximum of 
3 sh in supervised experiences will be applied toward the degree 
requirements. Permission is required.  
PSY 6940  Supervised Teaching  
1-6 sh (may be repeated for up to 12 sh of credit)  
Credit is earned by serving in an apprenticeship position under 
a faculty member and assisting with the teaching of one or more 
courses. Although the student may enroll in more than one supervised 
experience in teaching or research (see PSY 6917), a maximum of 
3 sh for supervised experiences will be applied toward the degree 
requirements. Permission is required.  
PSY 6948  Internship  
1-6 sh (may be repeated for up to 12 sh of credit)  
Supervised experience in community, agency, school, or business 
organization where student serves as full-time staff member. Student 
participates in full range of services available in the setting. An 
internship portfolio and paper are required. May enroll for more than 
one term-total of 6sh required for M.A. degree. Minimum of 600 clock 
hours required. Graded on satisfactory / unsatisfactory basis only. 
Permission is required.  
PSY 6953  Research Capstone I  
3 sh (may not be repeated for credit)  
Prerequisite: EXP 5735 AND PSY 6217  
Students will be engaged in a group supervised research project. They 
will build upon their experimental research design skills and strengthen 
their data collection experience. Skills required for research, writing 
in the style of the American Psychological Association, and ethical 
conduct of research will be discussed.  
PSY 6954  Research Capstone II  
3 sh (may not be repeated for credit)  
Prerequisite: PSY 6953  
In the second course in the Research Capstone sequence, students 
will continue to be engaged in a supervised research project and work 
on writing in the style of the American Psychological Association. They 
will also strengthen their statistical analyses skills by working directly 
with data. Students will build their presentation skills by presenting 
their research at the completion of the project.  
PSY 6971  Thesis  
1-6 sh (may be repeated for up to 36 sh of credit)  
Includes research projects, theoretical treatises and case studies. May 
 enroll for more than one term-total of 6sh required for M.A. degree. 
Graded on satisfactory / unsatisfactory basis only. Permission is 
required.  
PSY 8980  Dissertation  
1-6 sh (may be repeated for up to 18 sh of credit)  
Major individual research in an area of significant psychological 
interest; designed specifically for candidates in the Ed. D Curriculum 
and Instruction Program-Social Sciences / Psychology Specialization. 
Reflects intensive social science research produced by the student 
with guidance from the major professor and doctoral committee 
members. Admission to candidacy and permission is required. Graded 
on satisfactory / unsatisfactory basis only.
PUP-Public Policy Courses

PUP 4004 Public Policy
3 sh (may not be repeated for credit)
Study of how public policy is made, especially at the national level. Focus is on current issues and events including the role of the President, Congress, interest groups, bureaucracy and the public. Extensive use of current news sources in the print, television, and internet media.

PUP 4044 Analytic Techniques for Public Policy
3 sh (may not be repeated for credit)
Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 5045; graduate students will be assigned additional work.

PUP 4244 Natural Resource Policy
3 sh (may not be repeated for credit)
The history of natural resource and environmental policy in the United States and the institutions and processes of American natural resource and environmental policy making. Addresses the ongoing transformations in these broader institutions and processes and considers their linkage to the formulation of public policy as it relates distinctly to natural resources and the natural environment.

PUP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
PUP 5045 Analytic Techniques for Public Policy Analysis
3 sh (may not be repeated for credit)
Examines the issues involved in and methods of developing, implementing, and analyzing public policy. The role of the public manager is assessed relative to other actors in the development of public policy. The graduate course in analytic techniques provides students an opportunity to deepen their understanding of methods of policy analysis and the processes and challenges of implementation. Pre/Co-requisite: None.

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

PUR-Public Relations Courses

PUR 3000 Principles of Public Relations
3 sh (may not be repeated for credit)
Increases understanding of the theory and practice of public relations, functions in organizations, and role in society. Is the foundation course for all other courses in public relations.

PUR 3100 Writing for Public Relations
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100
Develops professional-level writing skills expected of beginning public relations practitioners. Students practice writing for different audiences and media, such as preparing memos, letters, new releases, crisis communication plans, features, media kits, speeches and newsletters.

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

PUR 4203 Public Relations Law and Ethics
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000
The code of ethics and practice in public relations along with an analysis of ethical issues and trends. Specific legal issues such as privacy, defamation, copyright, and new technology will be covered.

PUR 4400 Crisis Public Relations
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000 OR COM 3003
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 OR COM 3003
The ability to communicate effectively with the media on behalf of an organization is an essential skill for public relations professionals. Techniques and guidelines are provided for the role of organizational media relations manager with emphasis on the spokesperson. An overview of media needs, including communication planning, tips and techniques, and common pitfalls of organizational media relations programs. A considerable portion of the course requires students to participate as spokespersons in various scenario-based, video-tapped exercises.

PUR 4600 Communication Management
3 sh (may not be repeated for credit)
Prerequisite: (COM 3003 OR PUR 3000) AND (PUR 3100)
Capstone course for public relations and advertising majors. Emphasis on case study analysis and the management of integrated communication programs. Senior status required.

PUR 4801 Public Relations Campaigns
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000 AND PUR 3100
A capstone course designed for graduating seniors, focusing on applying communication and public relations research and theory for a real client. Provides a thorough experience in conducting public relations and integrated communications campaigns and in preparing communication materials. Working in teams, students prepare and conduct the research, planning, implementation and evaluation of an actual campaign for a client. An advanced course requiring full understanding of public relations theory, writing, techniques and research methods. Permission is required. Credit may not be received in both PUR 4801 and PUR 4802.

PUR 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
Endorsement Competency 2. Special needs. This course meets the requirements for Florida Reading Instruction that provides appropriate accommodations for students with special needs. This course meets the requirements for Florida Reading Endorsement Competency 2.

**RED-Reading Education Courses**

**RED 3310** Literacy Instruction for the Intermediate Learner
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314
This course prepares the pre-service teacher for effective literacy instruction in the intermediate grades. Learning activities focus on research based instructional approaches that incorporate the major components of reading, including word study, guided reading, and guided writing. Additionally, students will examine standards based instruction that provides appropriate accommodations for students with special needs. This course meets the requirements for Florida Reading Endorsement Competency 2.

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

**RED 4542C** Assessment and Differentiated Instruction in Reading
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314 AND RED 3310
This course prepares the pre-service teacher in the areas of differentiated reading and language arts instruction based on appropriate assessment practices. A major component of this course is building capacity with regard to providing individualized instruction in the areas of reading, writing, speaking, and listening. This course meets the requirements for Competencies 3 and 4 of Florida's Reading Endorsement.

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

**RED 5515** Classroom Reading Assessments
3 sh (may not be repeated for credit)
This course is designed for students to explore theory and practices of informal reading assessments appropriate for the K-12 classroom teacher. During this course, students will administer, analyze, and interpret a variety of informal reading assessments. Course participants will generate a case study to represent how a student develops in terms of reading components.

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

**RED 6060** Foundations of Middle and Secondary Literacy
3 sh (may not be repeated for credit)
Students in this course will learn about literacy theory and instruction in the middle and secondary grades based on research and classroom practice. Students will examine theories for enhancing reading, writing, speaking, and listening across various subjects in the school curriculum for middle and secondary students.

**RED 6116** Foundations of Literacy Development
3 sh (may not be repeated for credit)
Students in this course will learn about current methods, materials, issues, and trends in the teaching of literacy in early childhood and elementary classrooms. Students will examine how particular theories of literacy impact instructional practices used when teaching reading and writing in the pre-k-5 classroom.

**RED 6240** Differentiating Instruction
3 sh (may not be repeated for credit)
Explores differentiating instruction to meet the needs of all learners and teaches how to prevent or remediate reading difficulties. The focus will be on the interpretation of reading assessment and the implementation of research based instructional practices.

**RED 6546** Identifying and Preventing Reading Difficulties
3 sh (may not be repeated for credit)
Prerequisite: EDF 6460
Course work with required clinical experience to develop competence in determining causes and degrees of reading disabilities and identifying appropriate corrective or remedial instruction to meet the specific needs of students.

**QMB-Quantitative Methods in Business Courses**

**QMB 3820** Introduction to Quantitative Models for Business Decisions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2233 OR ISM 3011
Formulation and application of mathematical models in business decision making scenarios. Focuses on a system modeling view of resources, constraints and objectives. Credit can only be earned for one of these three courses: MAN 3540, MAN 3550 and ISM 3XX1.

**QMB 6305** Quantitative Methods for Business
3 sh (may not be repeated for credit)
Provides students with quantitative skills that are required to make business decisions. These skills involve using statistical, forecasting and estimation techniques. Students are expected to use the subject matter for problem sets and exams.

**REA-Reading Courses**

**REA 1905** Directed Study
1-12 sh (may be repeated indefinitely for credit)

**RED-Reading Courses**

**RED 3310** Literacy Instruction for the Intermediate Learner
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314
This course prepares the pre-service teacher for effective literacy instruction in the intermediate grades. Learning activities focus on research based instructional approaches that incorporate the major components of reading, including word study, guided reading, and guided writing. Additionally, students will examine standards based instruction that provides appropriate accommodations for students with special needs. This course meets the requirements for Florida Reading Endorsement Competency 2.
RED 6701  The Organization and Administration of Literacy Programs
3 sh (may not be repeated for credit)
Explores the role of a specialized literacy leader in organizing and implementing literacy programs from the pre-elementary through the college level. Includes an examination of leadership practices and advocacy that promote effective literacy practices to a variety of stakeholders, including administrators, teachers, parents/guardians, and students.

RED 6747  Research and Trends in Reading
3 sh (may not be repeated for credit)
Review of significant research in reading, introduction to techniques and critical analysis of research research, review and comparison of trends in development of materials, approaches and reading programs.

RED 6866  Reading Practicum
3 sh (may not be repeated for credit)
Prerequisite: RED 6240
Provides practical experience in increasing the reading performance of K-12 students with the prescription and utilization of appropriate strategies and materials. Requires demonstration of knowledge in the prevention, identification and remediation of reading difficulties.

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

REEL-Real Estate Courses
REE 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

REL-Religion Courses
REL 1300  World Religions
3 sh (may not be repeated for credit)
Broad understanding of the major religious traditions. May include Judaism, Christianity, Hinduism, Buddhism, Islam and others. Comparative study of similarities and differences among these traditions. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement.

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

REL 3142  New Perspectives on the Religious Self
3 sh (may not be repeated for credit)
Focus on selected understandings of the nature of the self as a religious being. Various models of the self will be examined. Meets Gordon Rule Writing Requirement.

REL 3213  Studies in Hebrew Scriptures/Old Testament
3 sh (may not be repeated for credit)
Analysis of literature of ancient Israel, interrelation of faith and history, evolution of ethical monotheism from primitive beginnings to oracles of prophets. Meets Gordon Rule Writing Requirement.

REL 3241  Studies in the New Testament
3 sh (may not be repeated for credit)
Exegetical study of literature of the early Christian community with emphasis on life and teaching of Jesus and letters of Paul from variety of theological perspectives. Meets Gordon Rule Writing Requirement.

REL 3310  Philosophies of the East
3 sh (may not be repeated for credit)

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

REL 3948  Service Learning Field Study II
1-3 sh (may be repeated for up to 4 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 (Bertoci, DeWolf), liberation theology (Gutierrez, Boff).

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 Gordon Rule Writing Requirement. Meets Multicultural Requirement.

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

RTV-Radio/Television Courses
RTV 3210  Radio Production
3 sh (may not be repeated for credit)
Introduction to the tools and techniques of audio production with emphasis on the practical application of theoretical concepts. Credit may not be received in RTV 3210 and either RTV 3210C or RTV 3240C.

RTV 3301  Broadcast Journalism
3 sh (may not be repeated for credit)
Principles and techniques of radio and television news operation. Credit may not be received in both RTV 3301 and RTV 3304.

RTV 3400  History of Television
3 sh (may not be repeated for credit)
Examines the entire television industry from its inception to present day and its social, economic and financial ramifications on societies, especially their inter-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 3511  Electronic Field Production  
3 sh (may not be repeated for credit)  
Principles and techniques of basic electronic field production for video, film, CD-ROM, and the Internet. Credit may not be received in both RTV 3511, 3320 and RTV 3320C.

RTV 3533  Television Production  
3 sh (may not be repeated for credit)  
Studio operations and equipment; theoretical and technical aspects of television production. Credit may not be received in both RTV 3200, 3533 and RTV 3200C.

RTV 3700  Broadcast Management and Regulation  
3 sh (may not be repeated for credit)  
Management issues in the broadcast industry and governmental regulations that apply to that industry.

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

RTV 3942  Practicum: Television News  
3 sh (may not be repeated for credit)  
Prerequisite: (RTV 3200 AND RTV 3320) AND (JOU 2100 OR FIL 4102)  
Experience in production of a weekly television news program telecast to the local community.

RTV 4221  Advanced Television Production  
3 sh (may not be repeated for credit)  
Prerequisite: RTV 3200 AND RTV 3320  
Applies skills from basic television production and electronic field production in non-news production formats for broadcast on WUWF-TV Channel 4. Production formats include, but are not limited to: interview programs, musical productions, remote event coverage, dramatic anthology, all in either live or taped settings. Will be structured as an actual job. Students will participate in every production setting over the course of a semester in every capacity.

RTV 4332  Documentary Television Practicum  
3 sh (may not be repeated for credit)  
Prerequisite: (RTV 3511 OR RTV 3320) AND (RTV 3200 OR RTV 3533)  
Introduces, defines, and exposes the student through hands-on approach to documentary style television productions by exploring the six foundational styles: Poetic, Expository, Observational, Participatory, Reflexive, and Performative.

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

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

RUS-Russian Language Courses

Religion Graduate Courses

RLG 6905  Directed Study  
1-12 sh (may not be repeated for credit)

SCE-Science Education Courses

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

SCE 4310  Teaching Science in the Elementary School  
3 sh (may not be repeated for credit)  
This course incorporates current research and best practices in science education to prepare prospective teachers to foster meaningful science learning in the elementary (K-6) classroom. In the course, prospective teachers reflect on and develop their competence in the three dimensions of science learning, and their understanding of the nature of science. They also explore subject-specific pedagogy with an emphasis on planning inquiry-based instruction that engages elementary learners in experiencing and explaining phenomena, and builds on their prior knowledge. Furthermore, the course develops prospective teachers' awareness of strategies to assess science learning, and promote equitable participation of underrepresented populations in science learning experiences. A material and supply fee is assessed for an elementary science materials kit.

SCE 4320  Teaching Science in the Middle and Secondary Schools  
3 sh (may not be repeated for credit)  
Theory and methods of teaching science in the middle and secondary schools; explores current research on approaches in teaching and learning science; examines the practice of science, disciplinary core ideas in specific science disciplines of choice (i.e. Biology, Earth/Space, Chemistry, Physics), and crosscutting themes in science; compares various models of teaching (i.e. direct instruction, inquiry, project-based learning); Includes practices to effectively move student thinking toward meaningful understanding focusing on best practices in STEM disciplines.

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

SCE 6017  Science Instruction in the Elementary School  
3 sh (may not be repeated for credit)  
Theory and practice of elementary school science education, including history, philosophy, research, curricula, and instructional strategies. Demonstration teaching, individualized instruction and action research. Credit may not be received for both SCE 6017 and SCE 6117.

SCE 6265  Science Instruction in the Middle and Secondary School  
3 sh (may not be repeated for credit)  
Prerequisite: EDG 5309  
This course is designed to assist preservice middle and secondary science teachers in developing the pedagogical content knowledge required to teach science in a manner consistent with current reform efforts in science education. The course focuses on four components related to teaching and learning science in grades 6-12: 1) how students learn science, 2) science curriculum, 3) instructional methods and strategies for teaching science, and 4) science assessment practices.

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

SDS-Student Develop Services Courses

SDS 6345  Educational and Vocational Guidance  
3 sh (may not be repeated for credit)  
Socio-psychological forces influencing career choice; identification, selection and use of educational and career guidance resources; use of decision-making concepts and skills in choosing educational and occupational alternatives.
Please note the following course descriptions and requirements:

**SLS 6647 - Foundations of Counseling Principles for Student Affairs Administration**
3 sh (may not be repeated for credit)
This course is designed to serve as a professional preparation course in which students will have the opportunity to learn basic counseling concepts and applications essential for effective student affairs practice. Students will be prepared for competent student affairs practice through the examination of personal values, professional ethics, and personal demonstration of essential practice skills that will serve diverse populations with specific attention to gender, sexual orientation, class, race, and ethnicity. Issues related to college student mental illness will also be addressed.

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

**SLS-Student Life Skills Learn Courses**

**SLS 1109 - Foundations for Academic Success**
1-3 sh (may not be repeated for credit)
The course introduces students to campus resources and provides skills and tools that will help them to be successful. Faculty will use High Impact approaches to getting students engaged and connected on campus.

**SLS 2401 - Major Exploration Career Choice**
1-3 sh (may not be repeated for credit)
This course is designed to assist students in identifying their values, interests, personality, and skills and how these relate and connect to choosing a major and/or career. Students will have the opportunity to develop relevant ideas for experience in their field and be able to explore networking opportunities to assist them with their career objectives. The class is designed to use an introspective approach to identifying majors and careers and then to give students the tools for developing experiential learning opportunities.

**SLS 2905 - Directed Study**
1-12 sh (may be repeated indefinitely for credit)
**SLS 2940 - Internship Experience**
0-6 sh (may be repeated for up to 6 sh of credit)
This course will consist of a variable internship opportunity for current UWF students or recent UWF graduates placed with a UWF department, community agency or employer. Placements will be managed by the Office of Career Development and Community Engagement (Career Services), a department within the Division of Academic Engagement. The course will include both for credit and not for credit sections with variable credit hours. Special permission is required for course registration. Credit generated from this course may or may not count towards a degree.

**SOP-Social Psychology Courses**

**SOP 3004 - Social Psychology**
3 sh (may not be repeated for credit)
Survey of theory, method, and research results in areas of social psychology, such as attitude formation and change, social perception/cognition, impression formation, social influence, interpersonal attraction and relationships, aggression and pro-social behavior, and group dynamics. Application in areas such as work or health behavior, legal settings, or environmental psychology may also be included.

**SOP 3730 - Psychology, Culture, and Society**
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
The study of social processes within a cultural context. Topics include non-verbal behavior, the construction of social reality, communication, personal relationships, social influence, discrimination and prejudice, group dynamics, organizational culture and behavior, implications for health and wellness. Meets Multicultural Requirement.

**SOP 3905 - Directed Study**
1-12 sh (may be repeated indefinitely for credit)
**SOP 4702 - Psychology and Gender**
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Addresses the construction of gender as a psychological construct. The psychological construct of gender is considered from biological, social, and individual perspectives. Lecture, discussion, readings, and participative learning methods are used.

**SOP 5609 - Current Issues in Industrial-Organizational Psychology**
1 sh (may be repeated for up to 2 sh of credit)
Topics of current interest in industrial-organizational psychology. May include panel discussions, site visits to local organizations, guest speakers, individual student research presentations, or discussions led by the professor. Industrial-organizational psychology students must enroll for two consecutive terms.

**SOP 5905 - Directed Study**
1-12 sh (may be repeated indefinitely for credit)
SOP 6069  Advanced Social Psychology
3 sh (may not be repeated for credit)
Students must take SOP 3004 before enrolling in this course.
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: SOP 6669
Organizational development: change agency, role of self in O.D.,
change theory, feedback methodology, relationship building, team
building and quality, Lab learning methodology.
SOP 6669  Advanced Organizational Psychology
3 sh (may not be repeated for credit)
Seminar reviewing much of the recent research literature in areas
of organizational psychology, including leadership, motivation, job
performance, job satisfaction, role behavior in work settings and
communications.
SOP 6776  Human Sexuality and Sex Therapy
3 sh (may not be repeated for credit)
Major emphasis is given to research regarding a broad range of
sexual dysfunctions and analyses of specific therapeutic interventions.
Various styles of sexual expression are also examined in terms of their
social and psychological implications. Assumes prior knowledge of
counseling theory and practice.
SOP 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

**SOW-Social Work Courses**

SOW 2192  Understanding Relationships in the 21st Century
3 sh (may not be repeated for credit)
Human relationships with a focus on the interrelatedness and effects
of underlying theoretical principles as they relate to individual, family
and group interactions. Meets General Education requirement in Social
Sciences.
SOW 3103  Human Behavior in Social Environment
3 sh (may not be repeated for credit)
Prerequisite: BSC 1005 OR BSC 1085 OR BSC 1086
Social personality and cognitive development, normal and abnormal,
normative and non-normative crisis and gender issues with an
emphasis on cultural diversity. Importance of social work intervention
and treatment with individual, family, and community.
SOW 3113  Human Behavior in Organizations and Communities
3 sh (may not be repeated for credit)
Introduces the future practitioner to the concept of change agent within
organizations, institutions, and communities. Prepares the student
with academic concepts on community organization as a prelude
to the practice course. Emphasis is placed on the student's ethical
responsibilities to the client, organizational structure of human service
agencies and the elements common to them. Students will understand
structural and organizational differences between profit and nonprofit
agencies. Students will experience organizational obstacles to planned
change. The dynamics of gender, class, race, ethnicity, and sexual
orientation are examined in relationship to how they are played out
within the organizational context.
SOW 3203  Introduction to the Field of Social Work
3 sh (may not be repeated for credit)
Survey of the social work profession from its roots to contemporary
practice with a descriptive focus on its values, knowledge bases, skills,
and fields of practice. Emphasis is on generalist social work and social
policy structures which sustain society. Introduces the relationship of
social problems to social policy and to social service delivery systems.
SOW 3313  Work With Individuals and Families
3 sh (may not be repeated for credit)
One of four practice courses designed to prepare the student for
generalist social work. Emphasis is on the values, knowledge, and
skills necessary for effective assessment and intervention on the micro
level, and is reflected in several areas, including the worker / client
relationship, assessment, strategies and implementation techniques,
the social worker's use of self, the phases of the helping process, and
evaluation. Using the systems approach, emphasis is placed on social,
cultural, familial, and environmental influences on the functioning of
individuals and families. Permission is required.
SOW 3314  Case Management
3 sh (may not be repeated for credit)
Designed to help students develop a general overview of case
management and how it is defined and practiced in a variety of
settings, such as juvenile justice programs, mental health programs,
and nonprofit community agencies.
SOW 3322  Work With Groups
3 sh (may not be repeated for credit)
One of a series of four courses designed to prepare a student for
generalist social work practice. The student will acquire the knowledge
base, values and skills necessary for working with groups at the
beginning professional level. The focus will be on developing the
knowledge base, values and practice skills needed to use the problem
solving approach to work with diverse populations within various types
of groups. Stages of groups and activities that can enhance the group
process will be explored. Permission is required.
SOW 3350  Interviewing and Recording
3 sh (may not be repeated for credit)
Practice in interviewing techniques and in precise, descriptive, and
accurate writing techniques for practitioners in social work, psychology,
and other helping professions. Students will learn interview techniques,
how to record sessions accurately and in formats required for opening,
transferring, updating and closing a social work client record. Students
will learn American Psychological Association writing guidelines. Meets
Gordon Rule Writing Requirement.
SOW 3503  Introduction to Generalist Practice
3 sh (may not be repeated for credit)
One of four practice courses designed to prepare the student for
generalist social work. Through agency experience, classroom
instruction, and introspective discussion, students develop self-
awareness, beginning skills and knowledge, and a professional
attitude. Students are introduced to a social agency setting, the
varying needs and vulnerabilities of clients served, the problem solving
process, and the development of basic knowledge and skills necessary
in helping relationships with systems of various sizes. Restricted to
social work majors. Permission is required.
SOW 3650 Introduction to Child Welfare
3 sh (may not be repeated for credit)
Prepares social workers and others to enter the field of child welfare with a better understanding of the history of this movement and the types of services and programs designed to assist children and families. Also introduces and provides information to any interested person regarding the social problems of children and the availability of services to children in need.

SOW 3783 Human Trafficking
3 sh (may not be repeated for credit)
The purpose of this course is to educate social work students on human trafficking and develop a framework for professional intervention. This course is designed to examine the human trafficking phenomenon of modern day slavery of men, women, and children. Course content will include the examination of domestic and international policy, the differences in labor and sexual trafficking, and the scope and prevalence of human trafficking as an international concern. The socio-political, cultural, and economic issues that contribute to the increased phenomenon of trafficking with women and children will be explored as well as the traumatic effects on victims, families, and the community. The social workers role in providing intervention and advocacy services will be explored.

SOW 4111 Adolescents At Risk
3 sh (may not be repeated for credit)
Explores environmental and societal factors that contribute to risky behaviors of adolescents such as substance use, delinquency, sexual activity, and violent behavior, and others. Characteristics of high risk and low risk youth are discussed including the relationship of these characteristics to adolescent development. Prevention, intervention, and treatment approaches are discussed.

SOW 4141 Social Aspects of Family Violence
3 sh (may not be repeated for credit)
Introduces basic concepts, principles, and methods for understanding and identifying family violence. Topics include an historical overview; the impact of domestic violence on the community and on the woman, children, and man involved; the identification of emotional, physical, and sexual aspects of abuse; safety planning and levels of lethality; an introduction to effective intervention.

SOW 4232 Introductory Analysis of Social Service Policy
3 sh (may not be repeated for credit)
Prerequisite: SOW 4403
Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills.

SOW 4233 Human Diversity and Social Justice
3 sh (may not be repeated for credit)
Prerequisite: SOW 4232 AND SOW 4403
Examines the impact of social, economic, and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political, and economic justice. Meets Multicultural Requirement.

SOW 4242 Families and Family Treatment
3 sh (may not be repeated for credit)
Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 5243; graduate students will be assigned additional work.

SOW 4403 Social Work Research Foundations
3 sh (may not be repeated for credit)
Prerequisite: SOW 3350
Introduction to scientific strategies used to evaluate social work practice and theory. The different strategies covered range from participant and observational techniques, to controlled experimentation. Ethical/value dilemmas involved in social science research are also covered.

SOW 4510 Social Work Field Instruction
1-9 sh (may not be repeated for credit)
Prerequisite: SOW 3103 AND SOW 3113 AND SOW 3203 AND SOW 3313 AND SOW 3322 AND SOW 3350 AND SOW 3503 AND SOW 4232 AND SOW 4403
Co-requisite: SOW 4522
Field education experience in social service agency with a qualified professional supervisor. A minimum of 400 hours is required. Restricted to social work majors. Graded on a satisfactory/unsatisfactory basis only. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required. Material and Supply Fee will be assessed.

SOW 4522 Senior Seminar
3 sh (may not be repeated for credit)
Prerequisite: SOW 3103 AND SOW 3113 AND SOW 3203 AND SOW 3313 AND SOW 3322 AND SOW 3350 AND SOW 3503 AND SOW 4232 AND SOW 4403
Co-requisite: SOW 4510
Designed to integrate previously learned beginning generalist practice concepts, values, knowledge, attitudes and skills with practice. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required.

SOW 4674 Social Issues and Intervention Strategies in Social Work Practice with Older Adults
3 sh (may not be repeated for credit)
Embraces an interdisciplinary approach to intervention strategies to eliminate or ameliorate problems/crises faced by aging clients. Demographics are addressed.
SOW 4679  Response to Disasters in the Community
3 sh (may not be repeated for credit)

The course is designed to provide the student with an understanding of disasters; man made and natural and their affect on the individual and community. Focus will be on preparation and response to disaster affected populations. Previous disaster responses will be critiqued in efforts to learn how to better prepare for future disasters. Basic human needs will be examined and how best a community can help to logistically provide for those needs. In addition, populations with special needs will be examined throughout all phases of the life cycle. Mental Health response will be addressed including cognitive/ emotional stages people experience following a disaster.

SOW 4700  Substance Abuse Prevention and Treatment: Special Issues
3 sh (may not be repeated for credit)

Historical, legal, ethical, and social issues relating to drug abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 5710; graduate students will be assigned additional work.

SOW 4740  Dimensions of Death and Dying: Special Issues
3 sh (may not be repeated for credit)

Assists the student, both personally and as a professional helping others, to approach death and dying with enhanced knowledge, sensitivity, and less dread and denial. Examines historical, social, legal, cultural, and interpersonal aspects of death and bereavement within the context of professional practice. Offered concurrently with SOW 5745; graduate students will be assigned additional work.

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

SOW 4941  Immersive Experiences in Social Work
3 sh (may not be repeated for credit)

This course offers students an opportunity to immerse themselves in intensive experiential learning though study abroad or study away. The course examines historical, cultural, social, economic, and political aspects of terra incognita, integrating key elements of the social work profession through the lens of social, political, and economic justice. A focus on the acquisition of 21st Century skills related to career development (e.g. global awareness, initiative and self-direction, flexibility and adaptability, social and cross-cultural skills, critical thinking and problem solving, etc.) will be emphasized. Offered concurrently with SOW 5942; graduate students will be assigned additional work. Meets Multicultural Requirement.

SOW 5105  Human Behavior in the Social Environment
3 sh (may not be repeated for credit)

This foundation year class presents a bio-psycho-socio-spiritual and ecosystems framework that introduces students to a macro, mezzo, and micro systems perspective. A major focus of the course is on the analysis of diversity within these systems as well as an examination of power and privilege. The person-in-environment framework provides students with an understanding of human adaptation and the various forces that support or impede well-being. Models for understanding human development are introduced. An overview of social functioning throughout the lifecycle within the context of the social environment is covered.

SOW 5106  Human Behavior in Communities and Organizations
3 sh (may not be repeated for credit)

This foundation year course focuses on Human Behavior in Organizations and Communities. The course familiarizes students with the intervention strategies of community organization. Emphasis is placed on the social worker’s role as change agent and models and strategies for community organizing. Content related to values and ethics of community organization in relation to the client, the organization, and the community is covered. Intervention plans are highlighted which focus on planned change efforts and containing strong evaluation plans are utilized in working with human service agencies serving vulnerable populations.

SOW 5128  Cognitive Behavioral Therapy
3 sh (may not be repeated for credit)
Prerequisite: SOW 5305

This course focuses on cognitive behavioral therapy, clinical decision making, advanced clinical interventions, while building on a generalist approach to social work practice. The course utilizes the clinical-community concentration prerequisites and an understanding of normal development and psychopathology as a foundation for advanced practice. It examines ways in which cognitive behavioral theory and model of intervention with individuals, families and groups can be tailored to client needs. The course addresses work with clients across the life cycle who are experiencing a variety of problems and difficulties. Methods of enhancing adaptive functioning and resiliency through cognitive behavioral therapy are emphasized. Permission is required.

SOW 5149  Social Work Practice In The Military
3 sh (may not be repeated for credit)

A comprehensive and in depth examination of the practice of military social work. The course provides a historical context and a thorough review of the specific practice of social work in the U.S. military.

SOW 5218  Analysis of Social Service Policy
3 sh (may not be repeated for credit)

This course will examine social work as a policy-based profession and how social welfare policy is a central concern to the social work profession. This course also addresses policy practice roles such as planner, administrator, policy analyst, and program evaluator. This course will review ways to improve human services delivery systems through the application of problem-solving, critical thinking, and other necessary skills.

SOW 5241  Advanced Child Welfare Practice
3 sh (may not be repeated for credit)

Elective course focusing on understanding child abuse and neglect that is designed to provide advanced direct practice (clinical) knowledge and skills necessary for working in public or private child welfare settings with multiple risk families, and in collaboration with multiple providers and systems. The course will address the historical perspective on child maltreatment, and the role of the family in today’s society. Department Permission is required.
SOW 5305  Generalist Practice I
3 sh (may not be repeated for credit)
This is the first course in a two-course sequence which covers
generalist social work practice. This course covers basic generalist
practice skills in the beginning phase of the helping process with
individuals and families. Basic communication and interviewing skills
essential to the helping relationship are introduced and practiced.
Students learn the tasks and skills required in the beginning phase
of practice: preparation, engagement, first interviewing skills and
case documentation. Students learn the process of collecting relevant
social, psychological, cultural, economic, and biological data from
both individuals and families, as well as the process of organizing
and analyzing these data for purposes of problem formulation.
Case management as a form of social work is examined, along with
historical and contemporary perspectives on the case management
process, with a focus on advocacy roles. Throughout the course,
emphasis is placed on practice skills through the use of interactive
exercises and role plays utilizing case examples representative of the
client populations with which the students work.

SOW 5309  Prevention and Intervention Strategies for Children Ages
0-5 and Their Families
3 sh (may not be repeated for credit)
Generalist practice methods for children 0-5 and their families. An
overview of developmental, psychological, sociological and legal
issues. Strategies for prevention and intervention. Offered concurrently
with SOW 4303; graduate students will be assigned additional work.

SOW 5324  Generalist Practice II
3 sh (may not be repeated for credit)
Prerequisite: SOW 5305
This is the second course in the Generalist Practice sequence.
This course continues to build the generalist skills, of practice with
individuals, families, and groups, with the addition of community
practice concepts. In this course the skills and intervention roles
relevant to the middle and end phases of interventions with individuals,
families, groups, and communities will be covered in more detail.
Throughout the course emphasis will be placed on the practice and
application of skills by using interactive exercises and role plays using
case examples form client populations with whom students work.

SOW 5356  Play Therapy: Theory and Techniques
3 sh (may not be repeated for credit)
Students will learn the theoretical underpinnings of play therapy and
the techniques by which the theory is practiced. Permission is required.

SOW 5386  Occupational Social Work
3 sh (may not be repeated for credit)
An overview of Occupational Social Work for graduate-level students
including historical trends and emerging issues. The course will
address the scope of Occupational Social Work practice, including
strategies for macro- and micro-levels of intervention. The needs of
specific populations and will be examined. The core technologies of
the Employee Assistance Program (EAP) practitioner and resources
for professional development will be identified. Permission is required.

SOW 5404  MSW Research Foundations
3 sh (may not be repeated for credit)
An introduction to research methodology in the evaluation of social
work practice and program evaluation.

SOW 5532  Foundation Year Field Instruction and Integrative Seminar
3 sh (may not be repeated for credit)
Prerequisite: SOW 5305
This course is designed to integrate the foundation curriculum course
content and field education experience utilizing a generalist approach.
Agency based casework experiences and seminar discussions provide
an opportunity to gain professional and peer feedback regarding
acquisition of generalist practice skills. Focus will include critical
thinking skills regarding the application of social work knowledge to
the solution of client problems. Issues related to social work values
and ethics, diversity, social and economic justice, populations-at-risk,
HBSE, social welfare policy and services, practice, and research
are examined within the context of the student?s field education
experience.

SOW 5614  Domestic Violence and the Social Work Practice
3 sh (may not be repeated for credit)
An examination of the history and dynamics of intimate partner
violence including a discussion of theories, various forms of domestic
violence, its impact, consequences and factors that exacerbate
violence. Prevention and intervention strategies will be discussed
along with policies that influence this social problem. Throughout the
course, the focus will be to learn effective strategies that empower
each family member to recover and/or change positively. The
consideration of social work values and ethics, as well as the concerns
of disadvantaged groups will be stressed.

SOW 5629  MSW Human Diversity and Social Justice
3 sh (may not be repeated for credit)
This course examines the impact of social, economic, and political
environments on diverse populations specifically race, gender, age,
etnicity, social class, sexual orientation, gender identity, religion, and
physical and mental ability. This course integrates the key elements
of the social work profession through the lens of social, political, and
economic justice. It includes the history, and philosophical foundations
of social welfare, community organization, and social action strategies
and tactics. Included are effects of cultural and group differences, the
results of oppression, economic systems, and social policies on social
work professional practice.

SOW 5710  Substance Abuse Prevention and Treatment: Special
Issues
3 sh (may not be repeated for credit)
Historical, legal, ethical, and social issues relating to substance abuse
prevention and treatment. The family unit will serve as a basic focus for
the area of prevention. Various treatment approaches will be covered
from outpatient counseling to therapeutic communities. Offered
concurrently with SOW 4700; graduate students will be assigned
additional work.
SOW 5757  The History, Philosophy, and Theory of Social Work Practice
3 sh (may not be repeated for credit)
This course examines the current structure of social welfare programs in the United States, their historical evolution, and the role ideological, political, economic, and social forces have played in the development of the social welfare system and its present character focusing on social and economic injustice in the United States. Also discusses the impact of social welfare policies on clients, agencies, service delivery, and social work practice. Students are provided an overview of the historical development, philosophical orientation, basic values, principles and knowledge base, and practice of the profession. The course will examine critical social problems that impact societies with an emphasis on the quest for social justice at local, national and global levels. Various perspectives on social welfare, social work as a profession, and many of the core concepts of the profession will be introduced. Content will cover major concepts and perspectives to include issues in poverty, child welfare, criminal justice, health and mental health, values, ethics, and working with a diverse and vulnerable population of individuals and families, ethnicity, minorities, women, gays and lesbians, aging, and disabled people.

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

SOW 5942  Immersive Experiences in Social Work
3 sh (may not be repeated for credit)
This course offers students an opportunity to immerse themselves in intensive experiential learning though study abroad or study away. The course examines historical, cultural, social, economic, and political aspects of terra incognita, integrating key elements of the social work profession through the lens of social, political, and economic justice. A focus on the acquisition of 21st Century skills related to career development (e.g. global awareness, initiative and self-direction, flexibility and adaptability, social and cross-cultural skills, critical thinking and problem solving, etc.) will be emphasized. Offered concurrently with SOW 4941; graduate students will be assigned additional work.

SOW 6116  Evaluation and Treatment of Trauma-Related Conditions
3 sh (may not be repeated for credit)
In-depth examination into the impacts of trauma on individuals, couples, families, and communities. Specific attention is given to learning how to assess and treat individuals who have been exposed to recent or previous traumatic events. Using multiple case scenarios, participants will be introduced to empirically-supported interventions for treated Acute Stress Disorder and Post-Traumatic Stress Disorder. They will also learn about the impacts of these conditions on partner relationships and other family members. The course also outlines know efforts to foster resiliency among these individuals and families. Department Permission is required.

SOW 6125  Psychopathology for Social Work
3 sh (may not be repeated for credit)
Prerequisite: SOW 5105 AND SOW 5106* AND SOW 5218 AND SOW 5324 AND SOW 5404 AND SOW 5532 AND SOW 5629* AND SOW 5757
This course addresses patterns of human behavior and psychosocial functioning commonly conceptualized as psychopathology. The course addresses such concepts as function, mental health, mental illness, normality and abnormality. Prevalent categories of psychiatric disorders are considered as to their labeling process, differentiating characteristics, explanatory theories and relevance for social work practice. This course is open to students admitted to the MSW program only.

SOW 6326  Social Work Intervention with Groups
3 sh (may not be repeated for credit)
The advanced social work practitioner is required to demonstrate group skills in a wide variety of practice situations. The focus of this course is on the design and implementation of group treatment services for at risk populations of varying ages, social situations and composition. Students will be afforded the opportunity to develop a clear sense of the scope, uses and skills of group work in the social work profession. Department Permission is required.

SOW 6345  Social Work Leadership, Management and Supervision
3 sh (may not be repeated for credit)
Introduction to the values, principles and functions that provide the foundation for effective leadership and management practice in the field of social work. Students will receive an overview of styles and skills used in social work leadership, management and supervision which are appropriate to both clinical and community social work practice settings. This course will provide students with values, principles and strategies for leading teams, problem-solving, and supporting multicultural and diverse staffing in social work agencies. Department Permission is required.

SOW 6366  Advanced Play Therapy Methods
3 sh (may not be repeated for credit)
Prerequisite: SOW 5356
This course will focus on the goals of group and filial play therapy. In group play therapy, topics include the role of the play therapist, selection of group members, planning/structuring of sessions, and developmentally responsive play and expressive arts activities. In filial play therapy, also known as Child Parent Relationship Therapy (CPRT), the focus is on intervention skills designed to improve parent-child relationships using a group parent-training format. Students will be expected to use play therapy kit created during SOW 5356. Department Permission is required.
SOW 6432 Evaluation of Social Work Practice
3 sh (may not be repeated for credit)
Prerequisite: SOW 5105 AND SOW 5106 AND SOW 5218 AND SOW 5324 AND SOW 5404 AND SOW 5532 AND SOW 5629 AND SOW 5757

The second of two required courses in the social work practice in research sequence. This advanced curriculum course builds on the knowledge and skills acquired in the foundation research course. The focus of this course is on the advanced skills necessary to effectively evaluate practice. The course utilizes single subject design and program evaluation techniques that are grounded in the social sciences and social work literature. Particular attention will be paid to the ethical issues of conducting research with oppressed and vulnerable populations. This course is open to students admitted to the MSW program only.

SOW 6535 Advanced Year Field Instruction and Integrative Seminar I
3 sh (may not be repeated for credit)
Prerequisite: SOW 6125

Integrates theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Material and Supply Fee will be assessed.

SOW 6536 Advanced Year Field Instruction and Integrative Seminar II
3 sh (may not be repeated for credit)
Prerequisite: SOW 6535
Co-requisite: SOW 6548

This is the second of two advanced master's level field internship and integrative seminars. Assists social work graduate students in integrating theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Material and Supply Fee will be assessed.

SOW 6548 Capstone in Advanced Clinical Practice
3 sh (may not be repeated for credit)
Co-requisite: SOW 6536

Capstone course in clinical-community social work practice. Student analysis of practice with individuals, families, and groups through a written and oral presentation of case material. Focus is on refinement of intervention skills relying on field practicum experience for integration of learning. Integration of knowledge from the Clinical Practice courses and Field Instruction. Students will prepare and present a case from their internship for oral presentation and demonstrate ability to organize and select appropriate treatment strategies for a specific client, family, or group. A broad range of field placements will provide diverse clients and a range of clinical issues. Students are expected to show evidence of critical thinking and self-awareness in written and oral presentations.

SOW 6609 Chronic Illness and Social Work
3 sh (may not be repeated for credit)

Exploration of chronic illness, including death, dying, life, and living, whether with respect to their own feelings, or that of clients with whom they might work, utilizing the systems perspective. We will focus on illness, care giving, the dying process, and grief and bereavement across the life span. In addition, we will consider the impact of gender, culture, religion, etc., on the topics. Furthermore, we will explore characteristics, special emphasis on resiliency, that allow us to survive, and, in fact, often thrive in the face of life's traumas and tragic events, especially when provided with support and education. We will fulfill the goals and objectives of the course through the use of literature, videos, class discussion, presentations, guest speakers, assignments, and experiential activities. Department Permission is required.

SOW 6618 Clinical Practice with Individuals
3 sh (may not be repeated for credit)
Prerequisite: SOW 5105 AND SOW 5106 AND SOW 5218 AND SOW 5324 AND SOW 5404 AND SOW 5532 AND SOW 5629 AND SOW 5757

This course builds on the knowledge base of generalist social work practice and expands and deepens that base. The course emphasizes advanced assessment of clients across the life span, trauma assessment, and beginning evaluation of practice skills. Treatment planning with individuals is stressed. Building on the generalist practice base for analyzing and interpreting bio-psychosocial-spiritual content, interpreting and implementing professional values and ethics and utilizing the professional helping relationship, this course expands and deepens that base by introducing an advanced clinical practice base of clinical-community social work. Major contemporary theories of psychotherapy will be introduced, including cognitive-behavioral, experiential, interpersonal, and integrative therapies. We will investigate clinical processes as they are informed by psychopathology and developmental issues across the life cycle, as well as institutionalized oppression, poverty, racism, sexism, heterosexism and other inequities. This course is open to students admitted to the MSW program only.

SOW 6619 Clinical Practice with Families
3 sh (may not be repeated for credit)
Prerequisite: SOW 5105 AND SOW 5106 AND SOW 5218 AND SOW 5324 AND SOW 5404 AND SOW 5532 AND SOW 5629 AND SOW 5757

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. This course is open to students admitted to the MSW program only.
SOW 6656  Child and Adolescent Treatment
3 sh (may not be repeated for credit)
Familiarization with a range of child and adolescent psychological disorders typically seen in social work clinical practice. Emphasis will be placed on development, diagnostic issues, theoretical formulations, causes, treatment, and research findings related to each of these conditions. The course will utilize lecture, guest speakers, videos and classroom activities. Permission is required.

SOW 6678  Grief, Loss, and Life
3 sh (may not be repeated for credit)
Introduction to the current and historical perspectives of death, dying and bereavement. This course will address experiences and responses to a variety of deaths including perinatal death, death of a child, death following a terminal illness, suicide, homicide, and military related death. The Hospice movement’s history and goals will be part of the curriculum, as well as the experience of dying well. Special attention will be given to how other cultures and religions view death and ethical dilemmas related to death. Loss is a central and inescapable dimension of the human experience. How an individual learns to deal with loss from an early age shapes the adjustment that s/he is able to make to adverse life events throughout the life cycle and indeed determines to a large extent how satisfying and creative a life that person is able to live. This course will help the social work clinician explore and understand major theories of grief and loss, as well as treat clients of all ages who are dealing with a variety of losses. It will also assist the generalist practitioner in determining those situations in which an unresolved past experience of loss is contributing to poor adjustment in the present, as well as providing guidelines for helping the client grieve in a way that allows him or her to re-establish a sense of meaning, adapt to what is gone, and move on to live with increased vitality and joy.

SOW 6714  Addictions Treatment
3 sh (may not be repeated for credit)
Discussion of the major models and approaches to treatment of addictions used today, including Harm reduction model, Bio-psycho-social-spiritual model and other evidenced based treatment approaches. Specific treatment interventions from models will be discussed throughout. Department Permission is required.

SOW 6846  Clinical Practice with Groups
3 sh (may not be repeated for credit)
Prerequisite: SOW 5105 AND SOW 5106 AND SOW 5218 AND SOW 5324 AND SOW 5404 AND SOW 5532 AND SOW 5629 AND SOW 5757
The advanced social work practitioner is required to demonstrate group skills in a wide variety of practice situations. The focus of this course is on the design and implementation of group treatment services for at risk populations of varying ages, social situations and composition. Students will be afforded the opportunity to develop a clear sense of the scope, uses and skills of group work in the social work profession. This course is open to students admitted to the MSW program only.

SOW 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
SOW 6916  Mind/Body Practice and Positive Psychology
3 sh (may not be repeated for credit)
A focus on research from the last 25 years that has revolutionized our knowledge of brain function, its relation to overall coping, and specific practices that promote resilience and well-being. It will be an important contribution to the social work curriculum at the master’s level because it revolves around a strengths perspective that social work has always embraced, as well as teaching the advanced practitioner specific skills that s/he can use to help clients in the process of improving their lives. The course will be richly multicultural and will also include ancient wisdom from the humanities that supports this new evidence-based field of mind-body interaction. Department Permission is required.

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

SPC-Speech Communication Courses

SPC 2608  Basic Communication Skills
3 sh (may not be repeated for credit)
Emphasizes the link between the fundamental theories in speech communication and effective public speaking. Includes practical training and study in public presentation skills, audience analysis, speech construction and problem solving using lecture and experiential learning format. Credit may not be received in both SPC 2608 and SPC 2016. Meets General Education requirement in Humanities.

SPC 3301  Interpersonal Communication
3 sh (may not be repeated for credit)
Emphasizes the link between interpersonal communication skills and relationship building in personal and professional contexts. Includes components on self-awareness, impression management, rapport building, developing intimacy, managing conflict, ethical use of interpersonal power, diversity issues, leadership, and using technology to facilitate interpersonal communication. Involves hands-on service learning project that provides the opportunity to practice interpersonal skills in a professional setting.

SPC 3593  Practicum in Forensics
1-3 sh (may be repeated for up to 10 sh of credit)
Active forensics participation through library research, topic analysis, discussion, practice and travel to intercollegiate tournaments. Permission is required. Credit may not be received in both SPC 3593 and SPC 3594.

SPC 3605  Speech Writing, Analysis, and Delivery
3 sh (may not be repeated for credit)
Prerequisite: SPC 2608
Practical application in writing, analyzing, and delivering speeches for a variety of professional and social rhetorical situations.

SPC 3905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: SPC 4540
Propaganda and Persuasion
3 sh (may not be repeated for credit)
Explores persuasion theory of persuasive activity at a variety of turns in the modern world. Special focus is on social movements, political campaigns and advertising. Seeks to gain a clearer understanding of how persuasive strategy works, from where it emerges and why and how we are affected by it.
SPC 4680  Rhetorical Criticism
3 sh (may not be repeated for credit)
The rationale, methods, and applications of rhetorical criticism.
Goal is to improve understanding and evaluation of real-world persuasive communication. Lecture and reading materials are divided into two main units. First is the general nature of both rhetoric and criticism, providing a basic conceptual framework for the identification and analysis of rhetorical artifacts. Second is a survey of nine contemporary critical approaches; cluster criticism, fantasy-theme criticism, feminist criticism, genre criticism, ideological criticism, metamorphic criticism, narrative criticism, pentadic criticism, generative criticism.

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

SPC 6545  Persuasion
3 sh (may not be repeated for credit)
Familiarizes students with major theories, areas of research, and ethical issues in the social scientific study and application of persuasion.

SPC 6646  Strategic Approaches to Presentational Speaking
3 sh (may not be repeated for credit)
Emphasizes advanced rhetorical theory, executive-level presentational speaking skill set development, and a diverse array of analytic tools used for context and public audience analysis. Focuses on the strategic application of these analytic and performance tools to instances of public and professional advocacy.

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

**SPM-Sports Management Courses**

SPM 2010  Sport in Global Society
3 sh (may not be repeated for credit)
The course examines the ways in which sport contributes to or inhibits the formation of positive cultural or societal norms. The topics addressed in the course demonstrate the diversity of social impacts sport has had on global society and culture. Historical and contemporary cases are used to illustrate the impacts of sport in different social contexts. Meets General Education requirement in Social Sciences.

SPM 3004  Introduction to Contemporary Sport Management
3 sh (may not be repeated for credit)
Introduction to the field of sport management required for all students in the major and available to students interested in working in the sport industry. Provides an overview of sport management rather than detailed instructions about how to manage sport enterprises. It serves as a foundation for students’ further studies in various subject areas in the field/profession of sport management, such as sport marketing, sport law, sport facility and event management, economics of sport, sport finance, etc.

SPM 3104  Sport Facility and Event Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004*
An introduction to sports facilities that focuses on elements of planning, design, and management, while examining event management functions related to maintenance, security, operations, and evaluation. Emphasis will be focused on problem solving utilizing class discussions, guest speakers, and facility site visitations as feasible. Open only to Juniors and Seniors.

SPM 3115  Organizational Management and Leadership in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004*; Completion of 60 hours of college course work is required prior to taking this course.
Organizational behavior, management, and leadership issues specific to the sport business environment. Students will gain knowledge of management and leadership best practices in sport business. Students will also learn how a variety of management and leadership practices impact sport organizations.

SPM 3306  Sports Marketing
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004*
Topics and issues involved in the promotion and marketing of sporting events, products, and services will be discussed. Examination of the evolution, theories, and practical applications of marketing strategies and current issues relative to social, political, ethical, and cultural environments will be presented. Open only to Juniors and Seniors.

SPM 3403  Sport Media
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004*
Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting. Open only to Juniors and Seniors.

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

SPM 4003  Sport Management Careers Seminar
3 sh (may not be repeated for credit)
Prerequisite: SPM 3000 AND SPM 3004*
Designed to prepare and assist students entering the workforce by completing a field experience and participating in classroom discussions. Students will learn job seeking skills including job searching, creating quality application documents, interviewing, networking, and professionalism. The primary objective of this course is to have students secure their ideal internship. It is taken the semester prior to students’ internship/capstone course. Must complete 12 hours of SPM 3/4000 level courses.
SPM 4012  Sociology of Sport  
3 sh (may not be repeated for credit)  
Students are introduced to the fundamental concepts of sports and sociology and examine various social phenomena taking place relating to sports such as violence and sports in schools and colleges. It introduces students to an array of social theories that apply to analyzing some social issues related to sports such as race and ethnicity, gender, social class, politics, and religion. This course will generate the awareness for students to understand the importance of, and paying attention to, the social functions of sports played in today’s society.

SPM 4503  Economic Issues in Sport  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND SPM 3004*) OR ECO 3003  
Introduction to the fundamental concepts of sport economics and economic strategies in the sport industry. Students’ knowledge of sport products and practical skills for evaluating economic decision making as part of a sports management team are developed. Open only to Juniors and Seniors.

SPM 4505  Principles and Issues in Sport Finance  
3 sh (may not be repeated for credit)  
Prerequisite: SPM 3004*  
Students will gain the knowledge necessary to successfully financially manage budget, account, ascertain funding, and navigate other complex sport finance issues. The specific financial implications of managing a sport related business are covered. Open only to Juniors and Seniors.

SPM 4604  Governance in Sport  
3 sh (may not be repeated for credit)  
Prerequisite: SPM 3004*  
A study of the growing spread and development of sport throughout the world as well as how the governing bodies involved affect the structure, organization, and delivery of sport. Open only to Juniors and Seniors.

SPM 4723  Sport Law and Risk Management  
3 sh (may not be repeated for credit)  
Prerequisite: SPM 3004*  
An introduction to the legal concepts that may significantly affect one's career in management of amateur or professional sports, and of other areas in sport operations. Topics of discussion primarily focus on the legal issues involved in business practices in the sport industry using a case analysis format. Open only to Juniors and Seniors.

SPM 4905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
Prerequisite: SPM 4003  
This capstone experience for Sport Management majors provides opportunities for students to put theory into practice through active participation in an appropriate sport organization. While students are able to gain some experience in the field supervised by practitioners in the sport industry, academic support from faculty is provided to ensure students accomplish the goals and objectives planned by the student, the academic instructor, and the field supervisor. Students will complete a capstone project that should advance their learning experience, as well as potentially benefit the sport organization for which they work. Departmental permission is required. Approval by academic adviser and program coordinator is required.

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

SPN-Spanish Language Courses

SPN 1120C  Spanish I  
4 sh (may not be repeated for credit)  
This course is not available for native speakers.  
This course is intended for students who have no previous experience in Spanish. Lays a foundation for speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week. This course is not available for native speakers.

SPN 1121C  Spanish II  
4 sh (may not be repeated for credit)  
Prerequisite: SPN 1120C  
This is a continuation of SPN1120C, a proficiency-oriented course, emphasizing the mastery of the basic skills of the language. An integrated (multi-media) approach to develop proficiency in all the basic language skills: listening/understanding, speaking, reading, writing and cross-cultural awareness. Students will build on their ability to understand frequently used words in oral contexts, as well as understand and respond appropriately to simple phrases and questions. Emphasis is placed on practical vocabulary and accurate pronunciation. This course is not available to native speakers. Pre-requisite is SPN 1120C (minimum grade of C) or successful completion of a placement test.

SPN 1905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)  
SPN 2200  Intermediate Reading and Translation  
3 sh (may not be repeated for credit)  
Prerequisite: SPN 1121C  
The purpose of this course is to offer opportunities for students to develop their language skills. The course will emphasize intensive practice in reading, translation and conversation. For students who have previous experience in Spanish, but are not yet prepared for advanced work in the language. Pre-requisite: SPN1121C (minimum grade of C) or successful completion of a placement test.

SPN 2210  Intermediate Composition & Conversation  
3 sh (may not be repeated for credit)  
Prerequisite: SPN 1121C  
Practical oral and written communication course designed to assist students in improving their abilities to speak, listen, write, and read Spanish. For students who have previous experience in Spanish, but not yet prepared for advanced work in the language. Pre-requisite: SPN1121C (minimum grade of C) or successful completion of a placement test.
SPN 2905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

SPN 3400  Advanced Stylistics  
3 sh (may not be repeated for credit)


SPN 3410  Composition and Conversation  
3 sh (may not be repeated for credit)

Skill in writing and speaking Spanish.

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

SPN 4500  Spanish Civilization  
3 sh (may not be repeated for credit)

Cultural and historical background of Spain. Meets Multicultural Requirement.

SPN 4520  Latin American Culture and Civilization  
3 sh (may not be repeated for credit)

Cultural and historical backgrounds of Latin American literature. Meets Multicultural Requirement.

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

SPN 4955  Intensive Spanish Abroad  
1-5 sh (may not be repeated for 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. Meets Multicultural Requirement.

SPS-School of Psychology Courses

SPW-Spanish Lit:Writings Courses

SPW 3190  Topics in Hispanic Literature  
3 sh (may be repeated for up to 6 sh of credit)

Prerequisite: SPN 2200

An introduction to the literary analysis of selected Hispanic Texts, using readings and film, discussions and writing assignments. Normally offered in Spanish (it could also be taught in English), it will be aimed at intermediate to native Spanish speakers with an interest in Hispanic--Spanish and / or Latin American--literature. It will enhance language skills and foster an appreciation of Hispanic culture, adding the challenge of applying critical analysis to selected texts in Hispanic literature.

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

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

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

SSE-Social Studies Education Courses

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

SSE 4113  Social Studies for Elementary Teachers  
3 sh (may not be repeated for credit)

This course will provide students with instructional strategies and materials for teaching a contemporary program in social studies in the elementary school. Students will creatively interact with history, geography, civics and economics. Particular attention will be paid to citizenship education, multicultural understandings and 21st century models for teaching social studies.

SSE 4324  Teaching Social Studies in the Middle and Secondary Schools  
3 sh (may not be repeated for credit)

This course will provide students with instructional strategies and materials for teaching a contemporary program in social studies in the secondary school. Students will creatively interact with history, geography, civics and economics. Particular attention will be paid to citizenship education, multicultural understandings and 21st century models for teaching social studies.

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

SSE 5045  Teaching Social Studies for the Intermediate Learner  
3 sh (may not be repeated for credit)

Instructional methods and materials for teaching a contemporary program in social studies in middle and high school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies. Permission is required.

SSE 6326  Teaching Social Studies in Middle and Secondary Level Education  
3 sh (may not be repeated for credit)

Prerequisite: EDM 6944* OR ESE 6944*

Analysis and evaluation of new programs and practices in teaching middle and secondary school social studies in terms of rationale, structure of disciplines, teaching strategies, and models; development, implementation and demonstration of creative teaching techniques designed to improve pupils' and teachers' understandings of and attitudes toward the study of social studies. Admission to Teacher Education and permission is required.

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

SSE 7905  Directed Study  
1-12 sh (may be repeated indefinitely for credit)

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

STA-Statistics Courses

STA 2023  Elements of Statistics  
3 sh (may not be repeated for credit)

Prerequisite: MAC 1105* OR MAC 1105C* OR MAT 1033* OR MGF 1106* OR MGF 1107* OR 22 ACT Math OR 520 SAT Math OR 123

STA2023 covers descriptive statistics, elementary probability theory, and basic statistical procedures, estimation, and inference. In addition to provide basic concepts in the mentioned areas it prepares the student for other more advanced statistical courses that are necessary for research. Meets General Education requirement in Mathematics. Meets Gordon Rule Applied Mathematics Requirement.
STA 3162C  Applied Statistics
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311
Inferential statistics from an applied point of view. Probability and sampling distributions, confidence intervals and hypothesis testing, ANOVA, correlation, simple and multiple linear regressions. SAS computer techniques. Lab required. Meets Gordon Rule Applied Mathematics Requirement.

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

STA 4051  Nonparametric Statistics
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
The nonparametric or distribution-free methods can be useful in cases such as (i) no assumptions about the underlying population distribution is made, (ii) the data can be categorical or ranked, such as good or bad. This course provides an introduction of some key concepts of nonparametric statistics. Students will learn Why, When, and How to apply nonparametric techniques. This course covers several nonparametric tests as it is described below in Topics.

STA 4176  Statistical Modeling
3 sh (may not be repeated for credit)
Prerequisite: STA 2023
A second course in statistics for students in the Biological Sciences. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Offered concurrently with STA 5176; graduate students will be assigned additional work. Meets Gordon Rule Applied Mathematics Requirement.

STA 4222  Sampling Theory
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 AND STA 2023
A first course in sampling methods with application to survey sampling and field sampling. Topics include simple random sampling, stratified sampling, cluster sampling, systematic sampling, and adaptive sampling and corresponding estimates for these sampling designs.

STA 4234  Regression Analysis
3 sh (may not be repeated for credit)
Prerequisite: STA 3162C OR STA 4173
Simple Linear Regression, Multiple Linear Regression, Model Adequacy Checking, Transformations and Weighting to Correct Model Inadequacies, Diagnostics for Leverage and Influence, Polynomial Regression Models, Indicator Variables, Multicolinearity, Variable Selection and Model Building, Validation of Regression Models, Introduction to Logistic Regression.

STA 4321  Introduction to Mathematical Statistics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Probability, conditional probability, distributions of random variables, distribution of functions of random variables, limiting distributions, multivariate probability distributions. Offered concurrently with MAP 5XX1 (Introduction to Mathematical Statistics I); graduate students will be assigned additional work. Meets Gordon Rule Applied Mathematics Requirement.

STA 4322  Mathematical Statistics II
3 sh (may not be repeated for credit)
Prerequisite: STA 4321
Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Meets Gordon Rule Applied Mathematics Requirement.

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

STA 5166  Special Topics in Statistics
3 sh (may not be repeated for credit)
Introduction to one- and two-way ANOVA; nonparametric methods, correlation and linear regression analysis. Introduction to SAS.

STA 5176  Statistical Modeling
3 sh (may not be repeated for credit)
A second course in statistics for students in the Mathematical Sciences Graduate Program. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Students will use matrix algebra to derive some properties of regression diagnostics, in addition to using the method of least squares to derive optimal estimators in linear models. This course is offered concurrently with STA 4173; graduate students will be assigned additional work.

STA 5326  Statistical Inference
3 sh (may not be repeated for credit)
This course is an advanced course in mathematical statistics. It is more theoretical than an applied statistics course and takes a mathematical approach to problem solving. Some theorems will be proved. There will be some "real world" applications of the theory.

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

STA 6235  Modeling in Regression
3 sh (may not be repeated for credit)
Prerequisite: STA 5176
Several advanced topics in regression are covered, such as nonlinear regression, influence diagnostics, Eigensystem analysis of X'X matrix, logistic regression, ridge regression, robust regression, and generalized linear models.

STA 6246  Design and Analysis of Experiments
3 sh (may not be repeated for credit)
Further concepts in design and analysis of planned experiments with emphasis on confounding and fractional replications of factorial experiments; composite designs; incomplete block designs; estimation of variance components.

STA 6257  Advanced Statistical Modeling
3 sh (may not be repeated for credit)
This course will cover advanced statistical models, enabling students to model various discrete and continuous outcomes. The focus will be determined by instructor and may include such analyses as generalized linear analysis, nonlinear regression analysis, or spatial cluster analysis. In addition to advanced models, the course will include model constructions, model fit, interpretation of results, and dissemination of results.
STA 6507  Nonparametric Statistics
3 sh (may not be repeated for credit)
Extensive coverage of goodness-of-fit tests, location problems, association analysis and general nonparametric topics.

STA 6666  Statistical Quality Control I
3 sh (may not be repeated for credit)
Procedures used in acceptance sampling and statistical process control are based on concepts and theory from probability and statistics. Introduces the applications of these procedures, investigates them from the standpoint of their statistical properties and develops the methodology for construction, evaluation and comparison of procedures.

STA 6707  Multivariate Methods
3 sh (may not be repeated for credit)
This course provides some of the concepts and methods of Multivariate analysis in order to describe and analyze multivariate data. Students will be introduced to 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 principal components analysis.

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

STA 6912  Statistics Research 1
3 sh (may not be repeated for credit)
This course gives students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor. Technical reports and oral presentations are expected of each student. Students must have completed 15 hours of graduate course work in the program and have maintained at least a 3.0 GPA. Students must also commit to both fall and spring sections of the course.

STA 6913  Statistics Research 2
3 sh (may not be repeated for credit)
Prerequisite: STA 6912
This course gives students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor. Technical reports and oral presentations are expected of each student.

STA 6930  Proseminar in Statistics
1 sh (may not be repeated for credit)
Each M.A. candidate (except those who choose the thesis option), shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory / unsatisfactory basis only. MA candidacy and permission is required.

STA 6971  Thesis
1-6 sh (may be repeated for up to 8 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

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

SYA-Sociological Analysis Courses

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

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

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

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

SYA 7905  Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD-Sociology of Demog/Area Courses

SYD 3810  Introduction to Women's Studies
3 sh (may not be repeated for credit)
Examination of the economic, political, social and cultural positions of women in the past and now in American society. Also examines social roots of their self-concepts, values, beliefs and perceptions.

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

SYD 4800  Sociology of Sex Roles
3 sh (may not be repeated for credit)
Changing sex roles in American society with particular attention to socialization and sex-differentiated roles in social institutions.

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

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

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

SYG-Sociology: General Courses

SYG 2000  Introduction to Sociology
3 sh (may not be repeated for credit)
Fundamental principles concerning social relationships, social interaction and social structure. Meets General Education requirement in Social Sciences.

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. Meets General Education requirement in Social Sciences.

SYG 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.

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

SYG 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.

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

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

SYG 6905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYO-Social Organizations Courses
SYO 3100 The Family
3 sh (may not be repeated for credit)
Social and psychological aspects of interpersonal relationships within
the family. Emphasis on modern problems of family.
SYO 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYO 4250 Sociology of Education
3 sh (may not be repeated for credit)
This course will examine the school, the social organization of schools
and school systems, situated in society. It will explore the school in the
context of and as a constructed entity in society, interdependent on
other institutions, molded by social forces and social norms, and, as an
effective vehicle for promoting multicultural awareness and for meeting
the educational needs of the diverse populations. Sociologists who
study education utilize various theories and empirical methodologies
in order to understand the relationship between schools and society.
Accordingly, this course will examine the importance of education as a
social institution from a sociological perspective. The course will begin
by discussing the history and goals of education, as well as the ways
in which sociologists have sought to understand this institution. We
will then examine important topics including educational inequality,
the dynamics of race, class, and gender in education, standardized
testing, school choice, and higher education. Offered concurrently
with SYO 5255; graduate students will be assigned additional work.
Instructor permission required. Meets Multicultural Requirement.
SYO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYO 5255 Sociology of Education
3 sh (may not be repeated for credit)
This course will examine the school, the social organization of schools,
and school systems, situated in society. It will explore the school in the
context of and as a constructed entity in society, interdependent on
other institutions, molded by social forces and social norms, and, as an
effective vehicle for promoting multicultural awareness and for meeting
the educational needs of the diverse populations. Sociologists who
study education utilize various theories and empirical methodologies
in order to understand the relationship between schools and society.
Accordingly, this course will examine the importance of education as a
social institution from a sociological perspective. The course will begin
by discussing the history and goals of education, as well as the ways
in which sociologists have sought to understand this institution. We
will then examine important topics including educational inequality,
the dynamics of race, class, and gender in education, standardized
testing, school choice, and higher education. Offered concurrently
with SYO 4250; graduate students will be assigned additional work.
Instructor permission required.
SYO 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP-Social Processes Courses
SYP 3630 Popular Culture
3 sh (may not be repeated for credit)
Analysis of the social foundations and cultural ramifications of mass
culture with primary reference to American society.
SYP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
SYP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

Speech Education Courses
SED 5340C College Teaching of Speech Communication
3 sh (may not be repeated for credit)
Guides students through theory, techniques and experiential
learning environments related to the college teaching of speech
communication. Permission is required.

TAX-Taxation Courses
TAX 3021 Tax For Decision Makers
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403
Coverage of tax topics and how they influence financial and business
decisions. Available to non-accounting majors only.
TAX 4001 Tax Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Principles of federal income taxation as provided in Internal Revenue
Code and regulations; added concentration on principles applicable to
individuals. Landmark cases and significant current treasury releases
discussed. Credit may not be received in both TAX 4001 and TAX
4002.
TAX 4012 Corporate Income Tax
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
Federal income taxation of corporations and their shareholders,
with special emphasis on incorporation, earning, distributions,
reorganizations, liquidations, and Subchapters. In addition, the
formation, operation, and termination of partnerships will be studied.
Offered concurrently with TAX 5105; graduate students will be
assigned additional work.
TAX 4316 Taxation of Partnerships and other Flow-Through Entities
3 sh (may not be repeated for credit)
The primary focus of this course is on the taxation of partnerships
and partners. In addition, the course is designed to present a survey
approach to the taxation of Corporations with particular focus on
S Corporations and the taxation of Estates and Trusts and their
beneficiaries. Offered concurrently with TAX 5317; graduate students
will be assigned additional work.
TAX 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
TAX 5105  Corporate Income Tax  
3 sh (may not be repeated for credit) 
Federal income taxation of corporations and their shareholders, 
with special emphasis on incorporation, earnings, distributions, 
reorganizations, liquidations and Subchapters. Offered concurrently 
with TAX 4012; graduate students will be assigned additional work. 
TAX 5317  Taxation of Partnerships and other Flow-Through Entities 
3 sh (may not be repeated for credit) 
The primary focus of this course is on the taxation of partnerships 
and partners. In addition, the course is designed to present a survey 
approach to the taxation of Corporations, with particular focus on 
S Corporations, and the taxation of Estates and Trusts, and their 
beneficiaries. Offered concurrently with TAX 4316; graduate students 
will be assigned additional work. TAX 4001 is a prerequisite. 
TAX 5905  Directed Study 
1-12 sh (may be repeated indefinitely for credit) 
TAX 6065  Tax Data Bases, Research and Procedure 
3 sh (may not be repeated for credit) 
Interpretative sources of tax laws and their interrelationships plus an 
analysis of federal tax procedures at the judicial and administrative 
level. 
TAX 6405  Estate Gift and Trust Taxation 
3 sh (may not be repeated for credit) 
Estate and gift taxation and Subchapter J with emphasis on family tax 
planning. 
TAX 6875  Special Topics in Taxation 
3 sh (may not be repeated for credit) 
An advanced course in taxation of individuals and business entities. 
Intended for students interested in advanced tax issues. Emphasis 
is placed on topics usually not covered in other tax courses. Ideally 
suited for exploring the constantly changing federal tax law. Permission 
is required. 
TAX 6905  Directed Study 
1-12 sh (may be repeated indefinitely for credit) 
THE-Theatre Stud Gen Reso Courses 
THE 2000  Theatre Appreciation 
3 sh (may not be repeated for credit) 
This course is an introduction to theatre from an audience perspective. 
It is designed to build an appreciation and understanding of the 
theatre and of the many disparate processes used to create theatrical 
productions. The course will present the current and historical context 
of how theatre informs and inspires an audience. Meets General 
Education requirement in Humanities. 
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. Meets General Education requirement in Humanities. Meets 
Gordon Rule Writing Requirement. 
THE 2905  Directed Study 
1-12 sh (may be repeated indefinitely for credit) 
THE 2925  Play Production 
1 sh (may not be repeated for credit) 
Study and participation in the preparation and production of plays and/ 
or musicals. Material and Supply Fee will be assessed. 
THE 3092  Theatrical Production & Performance 
1 sh (may be repeated for up to 9 sh of credit) 
Prerequisite: TPA 2200 
Individualized study in all areas of theatrical production and 
performance through apprenticeship on departmental productions 
during a semester. Completion of all lower division common 
prerequisites is required. Material and Supply Fee will be assessed. 
THE 3112  History of Theatre I 
3 sh (may not be repeated for credit) 
Theatre history from origins through the eighteenth century. 
THE 3113  History of Theatre II 
3 sh (may not be repeated for credit) 
Theatre history from eighteenth century through the present. 
THE 3243  Musical Theatre History 
3 sh (may not be repeated for credit) 
History and development of musical theatre from origins to present. 
THE 3306  Dramatic Literature II 
3 sh (may not be repeated for credit) 
Prerequisite: THE 2300 
A survey of play scripts representing important contributions from 
various genres of Western Theatre from the Greeks through 
contemporary Drama. 
THE 3905  Directed Study 
1-12 sh (may be repeated indefinitely for credit) 
THE 4260  Costume History 
3 sh (may not be repeated for credit) 
Historical periods of costume and fashion from ancient times to the 
present, their relation to theatre history, and potential use as sources 
for theatrical costume design. 
THE 4905  Directed Study 
1-12 sh (may be repeated indefinitely for credit) 
THE 4970  Senior Project 
3 sh (may not be repeated for credit) 
Preparation and completion of performance or design presentation as 
culminating project for the Bachelor of Fine Arts or Bachelor of Arts 
degree. Permission is required. 
THE 5905  Directed Study 
1-12 sh (may be repeated indefinitely for credit) 
TPA-Transportation Logistics Courses 
TPA 2000  Design for the Theatre 
3 sh (may not be repeated for credit) 
Play analysis for visual elements and expression. Stylistic sources as 
springboards to the design idea. Development of visual concepts for 
productions. 
TPA 2200  Technical Theatre 
3 sh (may not be repeated for credit) 
Co-requisite: TPA 2290L 
Methods of constructing and rigging scenery for the stage. Basic 
scene painting techniques. Stage lighting equipment and its use. Lab 
required.
TPA 2248  Introduction to Stage Makeup
3 sh (may not be repeated for credit)
Basic principles of the art of stage makeup. Practice in the design and execution of makeup for various purposes. Material and Supply Fee will be assessed.

TPA 2290L  Technical Theatre Laboratory
1 sh (may not be repeated for credit)
Co-requisite: TPA 2200
A practical laboratory for application of technical theatre skills. Material and supply fee will be assessed.

TPA 3020  Lighting Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 3344
Introduction to the work of the lighting designer through theoretical design projects and light lab projects. The theoretical designs cover the design process that the lighting designer uses to light a theatrical production. Each theoretical design introduces new concepts and challenges for the designer. The light lab projects build your ability to understand light and how to use light in a theatre situation. Projects also build in complexity and add to the overall design experience.

TPA 3060  Scene Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 2000* AND TPA 3344
Scene design is a complex combination of artist, painter, sculptor, actor, and director. Designers need to be able to envision the script and translate it to a three dimensional space, interpret how the actor is going to move in the space and how the director will compose the stage picture. Course examines those aspects of design and through theoretical projects explores visualizing a script in theatrical space.

TPA 3223  Lighting Technology
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200
Advanced study of the lighting equipment, dimmers, control, and other electronics used in the Theatre.

TPA 3230  Costume Construction
3 sh (may not be repeated for credit)
Techniques of patterning, cutting, fitting, draping, and basic construction of stage costumes. Material and supply fee will be assessed.

TPA 3313  Scenic Technology
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200
Advanced study of theatrical construction techniques, rigging, materials, hardware, and their use in the Theatre. In addition, the study of drafting for construction drawing, budgeting, time estimations and theatre safety.

TPA 3344  Drafting for the Stage
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200
Drafting is a very important communication tool for designers and technicians in the theatre, allowing them to give precise directions on how a project is to be implemented. Students gain an understanding of drafting tools to effectively communicate ideas in a clear and precise form. Offered Spring semester only.

TPA 3601  Stage Management
3 sh (may not be repeated for credit)
Prerequisite: THE 2000
Stage Managers work with things and people. Course clarifies the things to work with as a Stage Manager and the techniques needed to work effectively with them. Discusses different methods to use with the myriad of people and personalities encountered in the Theatre. Improvisation and class discussion are employed to examine how to work more effectively with everyone on a production.

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

TPA 4021C   Lighting Design II
3 sh (may not be repeated for credit)
Prerequisite: TPA 3020
Advances the study of the design process involved in lighting design. Theoretical design projects and light lab projects are used to give the student challenges in the classroom that can be directly translated to the design process. Theoretical projects in a variety of design venues and types of theatre with lab projects that further build the designer's resources.

TPA 4045  Costume Design I
3 sh (may not be repeated for credit)
Prerequisite: THE 4260
Introduction to theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size. Permission is required.

TPA 4061  Scene Design II
3 sh (may not be repeated for credit)
Prerequisite: TPA 3060
Advanced projects in scene design examine the challenges involved in designing in a variety of different venues and types of production. Expands the designer's tools to communicate their design idea to the director.

TPA 4077  Scene Painting
2 sh (may not be repeated for credit)
Practice in various techniques of scene painting. Consideration of pigments, color mixing, kinds of paints, paint equipment and its care. Material and supply fee will be assessed.

TPA 4504  Performing Arts Administration
3 sh (may not be repeated for credit)
Various aspects involved in the administration of a Performing Arts Organization. Special attention will be paid to the interrelationship in both goals and administration among various performing arts institutions including theatres, opera companies, and symphonies. Lectures and class discussion will provide an overview of the different areas of non-profit performing arts administration (including organizational structures, marketing, fundraising, grant writing, financial management, and producing) and applying these skills to the unique needs of a theatre company or other performing arts organization.

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

TPA 5905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.
TPP-Theatre Perf Perf Train Courses

TPP 1282 Voice and Movement for the Stage
3 sh (may not be repeated for credit)
Beginning course in the exploration of the sources of voice and movement and the process of developing individual expression and strength. Required of all theatre majors and directed primarily toward preparation for stage work.

TPP 2100 Acting for Non-majors
3 sh (may not be repeated for credit)
Introduction to the process of acting. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2110 Acting I
3 sh (may not be repeated for credit)
An introduction to the process of acting designed for students with some prior experience on stage. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2190 Rehearsal and Performance
1 sh (may not be repeated for credit)
Production involvement in any area of theatre performance. Permission is required. Material and Supply Fee will be assessed.

TPP 2250 Music Theatre Fundamentals
2 sh (may not be repeated for credit)
Co-requisite: TPP 2250L
This course is designed to introduce students to the theories supporting music readiness. Students will learn and be able to demonstrate skills in sight-reading including rhythm, aural skills, and functional piano. All elements of this course will be tailored to be applicable to the student’s study of music theatre and will be practiced weekly during lab hours. Permission is required. Offered Fall semester only.

TPP 2250L Musical Theatre Vocal Theory Lab
1 sh (may not be repeated for credit)
Co-requisite: TPP 2250
The Lab will provide students the opportunity to execute their skills in music readiness by demonstrating assign concepts on the piano. These will be directly applied to music they are preparing to perform.

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

TPP 3121 Acting Improvisation
3 sh (may not be repeated for credit)
Prerequisite: TPP 2100* OR TPP 2110
Study of improvisational technique through games and exercises.

TPP 3155 Acting II
3 sh (may not be repeated for credit)
Prerequisite: TPP 2110
Continues development of the fundamentals of acting through work on scenes from contemporary American theatre. Further develops student’s understanding of the various acting philosophies and techniques of Hagen and Stanislavski.

TPP 3211 Audition Techniques
3 sh (may not be repeated for credit)
Prerequisite: TPP 2110
Techniques for audition in theatre, musical theatre, television, and film including resume preparation and an overview of opportunities in professional acting and graduate school.

TPP 3250 Musical Theatre Performance
3 sh (may not be repeated for credit)
Serving as the capstone to the Musical Theatre B.F.A. Combines the study of vocal technique with acting technique to create a performance ensemble to tour to various venues throughout the region.

TPP 3252C Music Theatre Scene Study
3 sh (may not be repeated for credit)
Prerequisite: TPP 3155
Students will work on scenes and songs from musical theatre repertoire of different styles and / or eras. Work will involve partner work and / or work in small groups.

TPP 3257 Musical Theatre Voice
1 sh (may be repeated for up to 8 sh of credit)
Prerequisite: TPP 2250
Vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and interpretation of songs for musical theatre production.

TPP 3260 Acting for the Camera
3 sh (may not be repeated for credit)
Prerequisite: TPP 3155
Adapting the craft of acting to the needs of the TV or film camera. Work in a studio on scenes, daytime serials, commercials. Permission is required. Material and supply fee will be assessed.

TPP 3310 Play Directing
3 sh (may not be repeated for credit)
Prerequisite: TPP 3155 AND TPP 3650
This course is an introduction to the art and craft of directing for the stage. Class work is aimed at teaching new directors the fundamentals of analyzing the text, communicating effectively with actors, working on different types of stages, and creating a cohesive production concept. This course requires rehearsal time outside of regularly scheduled class hours.

TPP 3650 Script Analysis
3 sh (may not be repeated for credit)
Prerequisite: THE 2300
Exploration of a variety of styles and historical periods of play scripts through reading and analysis of the text as the basis of performance and production.

TPP 3743C Music Theatre Voice for Actors
1 sh (may be repeated for up to 4 sh of credit)
Prerequisite: TPP 2250*
Students will learn vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and song interpretation. Students will work both in groups and individually in front of the class.

TPP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)
TRA 5206  Logistics Systems and Analytics
3 sh (may not be repeated for credit)
Prerequisite: TRA 5159*

Seminar in Supply Chain Logistics Strategy provides active-learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today’s supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, or TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with TRA 4155; graduate students will be assigned additional work.

TRA 5159  Seminar in Supply Chain Logistics Strategy
3 sh (may not be repeated for credit)
Prerequisite: TRA 5206*

Seminar in Supply Chain Logistics Strategy provides active-learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today’s supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, or TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with TRA 4155; graduate students will be assigned additional work.

TRA 4113  Acting Ill
3 sh (may not be repeated for credit)
Prerequisite: TPP 1282 AND TPP 3155

Developing the actor's timing, vocal, and physical skill to create characters in plays from Restoration, French farce, Theatre of the Absurd, etc. Credit may not be received in both TPP 4113 and TPP 4141.

TPP 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

TRA-Transportation Logistics Courses

TRA 3153  Strategic Transportation Management
3 sh (may not be repeated for credit)

Presents the fundamental elements necessary to plan transportation systems. It examines the importance of transportation in the economy and the strategic and operational roles of transportation in supply chains. Emphasis is placed on domestic and global transportation operations, services pricing, carrier selection, equipment and shipment planning, transportation execution systems, intermodal operations, security, and expanded services in distribution.

TRA 3234  Warehousing and Terminal Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202

Planning and managing the flow of materials, parts and finished goods from suppliers, through production and final distribution to customers. Domestic distribution and import/export intermodal terminal operations are examined to understand how decisions and performance pertaining to such operations influence service quality, total cost to the organization and total cost for the entire supply chain.

TRA 4155  Seminar in Supply Chain Logistics Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202 AND TRA 4202*

Seminar in Supply Chain Logistics Strategy provides active learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today’s supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Offered concurrently with TRA 5159; graduate students will be assigned additional work.

TRA 4202  Logistics Systems and Analytics
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202

Students will learn to make improved business logistics and supply chain management decisions through the practical application of multiple analytical techniques used by managers in the field. Emphasis is placed on supply chain network analysis and design, inventory analysis and decision making, equipment and resource management, information management systems for analyzing and executing logistics decisions, and process management improvements to reduce total logistics cost and improve logistics service. Offered concurrently with TRA 5206; graduate students will be assigned additional work.

TSL-Teach Eng as a Second Lang Courses

TSL 4080  ESOL Principles and Practices
3 sh (may not be repeated for credit)

The course provides an overview of information and skills concerning the education of students who are English Language Learners (ELL). The course focuses on cross-cultural understanding and methods of teaching English to speakers of other languages, as well as curriculum and materials to support such work. It provides an introduction to linguistics and builds capacity with regard to working with families of students learning English. Offered concurrently with TSL 5085 and graduate students will complete additional higher-level work.

TSL 4081  Teaching English to ESOL Students
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080

This is the second in a sequence of two courses designed to provide students with knowledge and skills related to the education of English Language Learners (ELLs). The course addresses cross-cultural communication and methods of Teaching English to Speakers of Other Languages (TESOL) with emphasis on second language acquisition theories, the role of applied linguistics in second language teaching and learning, and the assessment of ELL students.
TSL 4140  ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This course builds on knowledge and skills developed in the prerequisite course. It will extend understanding of various ways that language and culture affect second language learners' participation and learning in K-12 classrooms. This course covers the study of curriculum and materials development for English Language Learners (ELL), reviews the educational theories of language acquisition, learning and literacy, and provides class participants with knowledge of ESOL methodologies. This course will introduce ESOL program models and materials and will cover the integration of language and content. Instruction of second language learners and practical application of course material will be emphasized throughout the class. Offered concurrently with TSL 5142; graduate students will be assigned additional work.

TSL 4251   Applied Linguistics
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
This course aims to provide the basis linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar considered necessary to teach English to English Language Learner (ELL). Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. Students will participate in the process of applying the linguistics, psycholinguistics, and sociolinguistics to teaching English as a second language with emphasis on pronunciation, intonation, structural analysis, morphophonemic, and decoding from print to sound. In addition, students will apply the knowledge gained to perform contrastive analysis and will use error analysis on the interference problems found with the ESOL students. The course addresses cross cultural understanding and methods of teaching English to speakers of other languages but focuses on the role of applied linguistics in second language teaching and the assessment of ESOL students. Offered concurrently with TSL 5250; graduate students will be assigned additional work.

TSL 4340  Methods of Teaching ESOL
3 sh (may not be repeated for credit)
Prerequisite: TSL 4140
Based on the fundamentals acquired in the prerequisite course, students will learn the history of approaches in language learning and teaching, transitional methods and the most current methods and approaches in teaching English as an additional language. Students will also examine the approaches that are believed to be most effective in teaching English Language Learners (EELs) with and emphasis on the four language modes as well as the development of vocabulary in L2. Offered concurrently with TSL 4345.

TSL 4441   Testing and Evaluation
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate widely used language tests, construct and administer language tests, and examine how test scores are used in educational settings. The use of authentic assessment for English Language Learners and the unique role of language will be a focus. Offered concurrently with TSL 5440; graduate students will be assigned additional work.

TSL 4520   Cross Cultural Communication and Understanding
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080
Develops awareness and understanding of the cultures represented by the different language minorities within Florida and the nation; provides an emphasis on research that will enable participants to plan and implement curriculum, instruction, and assessment activities to meet special needs of linguistically and culturally diverse students.

TSL 5085  ESOL Principles and Practices
3 sh (may not be repeated for credit)
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)
The course is designed to prepare teachers of English language learners (ELLs) to recognize and meet the unique academic needs of ELLs in learning content knowledge and developing English as an additional language. Students learn theories and practices on teaching ELLs in the mainstream classroom; and create and adapt instructional materials in all four language skills (reading, writing, listening, and speaking) with specific focus on literacy. The course entails planning and evaluating instruction for K - 12 classroom settings. The main objective of this course is to ensure that teachers of ELLs have the knowledge and skills needed to help culturally and linguistically diverse students achieve academic success in school. Offered concurrently with TSL 4140; graduate students will be assigned additional work.

TSL 5250   Applied Linguistics
3 sh (may not be repeated for credit)
The course focuses on preparing educators to work effectively with English Learners (ELLs) with specific focus on how knowledge of language can benefit them in their teaching of ELLs. This course covers the linguistic components of language including an overview of pragmatics, semantics, phonology, morphology, syntax, language variation, first-language acquisition, and second-language acquisition with analyses of how each component relates to social interaction, the linguistic development, and academic success of ELLs. Written language will also be examined and analyzed as it pertains to language teaching and learning. 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
This course offers an in-depth examination of approaches, methods, and techniques suitable for teaching English language learners (ELLs). The course provides a survey of the history of methods in the teaching of languages with a focus on current research-based instructional approaches and methods used in content instruction of culturally and linguistically diverse students to effectively teach content area subjects and increase academic success. The course introduces theories and theorists in the field of teaching English to speakers of other languages and examines their contribution to the education of ELLs. Offered concurrently with TSL 4340; graduate students will be assigned additional work.
This course is designed to help prepare teachers of English language learners (ELLs) to evaluate instructional outcomes and appropriately identify role of culture and the effect of English language proficiency on testing and evaluation of ELLs. Issues related to bias in testing are discussed along with the effects of standardized testing on culturally and linguistically diverse students. Traditional and alternative methods of assessment for ELLs are addressed with a focus on their role in making informed decision related to instruction and placement. Adaptation of testing and evaluation materials for ELLs is also addressed and practiced. 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)

This course is designed to provide teachers of English language learners (ELLs) with the fundamentals of cultural issues that come into play in their professional lives as teachers of culturally and linguistically diverse learners. The complexity of the concept of culture and common approaches related to intercultural communication and competence are addressed. Culture is analyzed and its role is examined in second language learning and teaching. Intercultural communication principles will be applied to working in diverse settings and strategies for fostering positive learning environments are evaluated. Students are encouraged to reflect on their personal cultures and their own views of other cultures as part of their analyses of cross-cultural communication and understanding in the teaching of languages. Offered concurrently with TSL 4520; graduate students will be assigned additional work.

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

URP-Urban Regional Planning Courses

WST-Women’s Studies Courses

Zoo-Zoology Courses

ZOO 3558 Coral Reefs 3 sh (may not be repeated for credit)

Coral Reefs is a non-biology major course designed to provide a general overview of tropical and sub-tropical coral reefs to students with an interest in these fascinating ecosystems, but who lack a strong theoretical background in the biological sciences. Covers basic concepts dealing with the structure, formation, biology and ecology of Atlantic and Pacific coral reefs. Students will be presented with interactive exercises, projects, and module-assessments throughout the course that will reinforce major biological concepts and promote critical thinking.

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

ZOO 4254C Marine Invertebrate Zoology 4 sh (may not be repeated for credit)

Survey of the invertebrates, with emphasis on systematics, morphology, physiology and ecology. Labs include detailed study of types and exposure to diversity, using live and preserved specimens, and exposure to techniques used in zoological research. Emphasis is on local marine species. Material and supply fee will be assessed for corresponding lab.

ZOO 4304C Marine Vertebrate Zoology 4 sh (may not be repeated for credit)

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab.

ZOO 4454 Elasmobranch Biology 3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 5452; graduate students will be assigned additional work.

ZOO 4457 Ichthyology 3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Classic and contemporary topics in the study of fishes discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 5458; graduate students will be assigned additional work.

ZOO 4472 Avian Science 3 sh (may not be repeated for credit)

Prerequisite: (BSC 2011/L AND STA 2023) OR MAC 1000

Avian Science is a course that describes and provides experience in the study of birds in order to answer questions about their basic ecology, with special emphasis on techniques for data collection and data management typically associated with research and monitoring of bird populations. Topics include species identification (visual and by song), movements and migration, habitat selection, foraging behavior, reproduction and nesting ecology, and demography (estimating survival, population size, nest success). Avian Science emphasizes S.T.E.M education, covering aspects of science, engineering, technology, and math important to many areas of ecology. Many of the techniques and concepts taught in this course, especially the sections on movements and spatial ecology, habitat selection, and demography, apply to fauna other than birds. Bird identification and survey experiences focus on species found on the UWF campus and on wintering waterfowl in local estuaries. The course consists of approximately 1/3 lectures and discussion, 1/3 laboratory exercise, and 1/3 field experiences. The class meets once per week for 2.75 hours. In addition, participation in one supervised day long (approximately12-hrs) bird survey is required outside of normal class time, and may need to take place on a weekend (depending on survey schedule and weather). A one weekend field trip is required in this course, and students are expected to have the ability to hike and do field work. Graduate students will be assigned additional work.

ZOO 4485 Marine Mammalogy 3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 5468; graduate students will be assigned additional work.
ZOO 4513  Animal Behavior
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Contemporary view of animal behavior including discussion of sensory and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 5514; graduate students will be assigned additional work.

ZOO 4905  Directed Study
1-12 sh (may be repeated indefinitely for credit)
ZOO 5305C  Marine Vertebrate Zoology
4 sh (may not be repeated for credit)
Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab. Offered Concurrently with ZOO 4304; Graduate students will be assigned additional work.

ZOO 5452  Elasmobranch Biology
3 sh (may not be repeated for credit)
Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 4454; graduate students will be assigned additional work.

ZOO 5458  Ichthyology
3 sh (may not be repeated for credit)
Classic and contemporary topics in the study of fishes discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 4457; graduate students will be assigned additional work.

ZOO 5475  Avian Science
3 sh (may not be repeated for credit)
Avian Science is a course that describes and provides experience in the study of birds in order to answer questions about their basic ecology, with special emphasis on techniques for data collection and data management typically associated with research and monitoring of bird populations. Topics include species identification (visual and by song), movements and migration, habitat selection, foraging behavior, reproduction and nestling ecology, and demography (estimating survival, population size, nest success). Avian Science emphasizes S.T.E.M education, covering aspects of science, engineering, technology, and math important to many areas of ecology. Many of the techniques and concepts taught in this course, especially the sections on movements and spatial ecology, habitat selection, and demography, apply to fauna other than birds. Bird identification and survey experiences focus on species found on the UWF campus and on wintering waterfowl in local estuaries. The course consists of approximately 1/3 lectures and discussion, 1/3 laboratory exercise, and 1/3 field experiences. The class meets once per week for 2.75 hours. In addition, participation in one supervised day long (approximately 12-hrs) bird survey is required outside of normal class time, and may need to take place on a weekend (depending on survey schedule and weather). A one weekend field trip is required in this course, and students are expected to have the ability to hike and do field work. Graduate students will be assigned additional work.

ZOO 5486  Marine Mammalogy
3 sh (may not be repeated for credit)
Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology, and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 4485; graduate students will be assigned additional work.

ZOO 5514  Animal Behavior
3 sh (may not be repeated for credit)
Animal behavior including discussion of sensory biology and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.

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