Table of Contents

About UWF ................................................................. 3
   Alma Mater .......................................................... 3
   Chambered Nautilus ................................................. 3
   College Mission Statements ........................................ 3
   University Vision, Mission, and Values ........................... 3

Academic Calendar ..................................................... 5

Campuses .................................................................. 6

Governance, Administration and Faculty .......................... 7
   Governance and Administration ................................... 7

Campus Crime Information ........................................... 8

Student Ombudsperson ............................................... 9

Graduate Catalog ...................................................... 10

Graduate Admissions ................................................. 11
   Readmission .......................................................... 11
   Admission Requirements .......................................... 11
   International Graduate Admission ............................... 12
   General Information .............................................. 14
   Appeal of Admission Denial .................................... 17

After Admission ....................................................... 18

Financial Aid .......................................................... 20

Military and Veterans’ Information ................................. 21

Tuition and Fees ..................................................... 26

Residency for Tuition Purposes .................................... 31

Graduate Academic Policies ......................................... 35
   Academic Calendar and Departmental Deadlines .............. 35
   Academic Credit Policies ......................................... 35
   Academic Programs and Curricula ................................ 36
   Academic Standing .................................................. 38

Appeals, Waivers, and Exceptions ................................ 39

Class Attendance ..................................................... 41

Degree Requirements ................................................ 42

Enrollment ................................................................ 45

Grade Adjustment ..................................................... 46

Grades ................................................................... 46

Graduation ............................................................... 48

Registration ............................................................. 49

Research Tools ........................................................ 51

Student Records ....................................................... 51

Technology Requirements ......................................... 53

Transfer of Credit ..................................................... 53

Tuition Waivers ....................................................... 54

Withdrawals ............................................................. 55

Online Campus ........................................................ 57

Public Service and Research Centers ............................. 58

Student Involvement .................................................. 59

Student Services and Resources ................................... 60

Graduate Degrees and Areas of Specialization .................. 61

Graduate Certificate Programs .................................... 63
   Graduate Applied Behavior Analysis (ABA) .................. 64
   Health Informatics Graduate Certificate ....................... 65
   Curriculum & Instruction, Ed.S. ............................... 66
   Doctoral Degrees ................................................... 68
   Curriculum & Instruction, Ed.D. ............................... 68
   Intelligent Systems & Robotics, Ph.D. ......................... 71

Accounting, M.Acc. .................................................... 73

Public Administration, M.S.A. ...................................... 75

Anthropology, M.A. ................................................... 77

Athletic Training, M.S. .............................................. 79

Biology, M.S. ........................................................... 81

Business Administration, M.B.A. .................................. 83

College Student Affairs Administration, M.Ed. ............... 88

Computer Science, M.S. ............................................ 89

Criminal Justice, M.S. ............................................... 90

Curriculum & Instruction, M.Ed. .................................. 91

Cybersecurity, M.S. ................................................... 93

Data Science, M.S. ..................................................... 94

Educational Leadership Certification, M.Ed. .................... 96

Engineering, M.S. ..................................................... 98

English, M.A. .......................................................... 99

Environmental Science, M.S. ...................................... 101

Exceptional Student Education, M.A. ............................ 102

Family Nurse Practitioner, M.S.N. ................................. 104

Geographic Information Science (GIS) Administration, M.S. 105

Health, Leisure, & Exercise Science, M.S. ..................... 107

Health Promotion & Worksite Wellness, M.S. .................. 109

Healthcare Administration, M.H.A. ............................... 110

History, M.A. .......................................................... 111

Information Technology, M.S. ..................................... 114

Instructional Design and Technology, Ed.D. ................. 115

Instructional Design & Technology, M.Ed. ..................... 117

International Affairs, M.A. ........................................ 119
About UWF

In this section:
• Accreditation
• 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;
Your power in us rests secure,
And evermore will last.
Your stately mansions were our home
Where minds and hearts are free
And though we may far from you roam,
We’ll always honor thee.

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

Chambered Nautilus

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

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

College Mission Statements

College of Arts, Social Sciences and Humanities

The College of Arts, Social Sciences, and Humanities 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 UKCOH is to:
• Educate and prepare future practitioners, leaders, and innovators for successful careers in health and other related professions by providing high-impact educational experiences.
• Champion evidence-based practice through scholarship and community engagement.
• Engage in clinical, applied, and basic research as well as other forms of scholarship to advance our disciplines.
• Promote and contribute to a healthier society by transforming students into inspiring and engaged global citizens and leaders.

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 help make a better world through 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.

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

UWF Strategic Plan 2017-2022
Each student should be aware of the dates and deadlines in the current Academic Calendar as published on the Office of the Registrar website. 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 Location
- Emerald Coast Location
- Online Campus
Governance, Administration and Faculty

In this section:

- Governance and Administration
- Faculty
Campus Crime Information

University Police
• Argo Alert (Safety Alerts and Notices)
• Campus Escort
• Emergency Management
Refer to information on UWF Police.

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

Student Advocate

Refer to Dean of Students Office, Student Advocate.
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 in Building 21, 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. 14)
- Admission Requirements (p. 11)
- International Graduate Admission (p. 12)
- General Readmission (p. 11)
- Appeal of Admission Denial (p. 17)

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 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 program's admissions committee.

Admission Requirements

Admission Requirements

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 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 institutional grade point average (GPA) of 3.0 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), 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 to which they 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 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 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 institutional 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 to which they 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 an Ed.D. Program

Each applicant shall be required to meet minimum University requirements:

- An earned master's degree from an institution that is 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 institutional 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 to which they 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 Ph.D. Program

Each applicant shall be required to meet minimum University requirements:

- An earned master's degree or bachelor's degree from an institution that is 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 institutional grade point average (GPA) of 3.0 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 to which s/he is applying to inquire as to which test and test score 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 the degree program.

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.

*UWF/REG 3.042

International Programs

International Programs provides 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 | Building 71 | (850) 474-2479 | 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:

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
info@jsilny.com

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

Ucredo
105 W. Plant St, Ste 1
Winter Garden, FL 34787
Ph: (407) 865-2733
www.ucredo.com
info@ucredo.com
Skype: ucredo

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

World Education Services (WES)
P.O. Box 5087
Bowling Green Station, New York, NY 10274-5087
Ph: (212) 966-6311
www.wes.org

Refer to the Graduate School website for more information.

English Proficiency Test

If the international applicant's native language is not English, the applicant is from a country in which the primary language is not English, or the applicant does not hold a bachelor's degree from a nationally accredited U.S. institution, s/he 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.

Internet-based TOEFL (iBT): 79/80
Listening Subscore: 19*

Revised TOEFL Paper-delivered Test: 79/80**
Listening Subscore: 19*

IELTS: 6.5
Listening Subscore: 7

MELAB: 78

All TOEFL, IELTS, and MELAB scores are valid for 2 years after the test date.

*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 subscore of 23 to the Graduate School.

**As of July 2017, the TOEFL Paper-based Test (PBT) was discontinued and replaced by the revised TOEFL Paper-delivered Test.

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

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

Notice of Admission

If a student’s application for admission to UWF is approved, an official letter of admission will be provided 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. 14)). 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.

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.

Immunizations

All incoming students, with the exception of fully online students, are required to provide proof of their immunization status. Students will create an individual account with Med-Proctor to upload their immunization documentation for verification through MyUWF. Refer to the 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. 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.

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

The U.S. Department of Homeland Security establishes guidelines and restrictions for international student employment. International student employment information is available through UWF International Services.

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.

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 for more information.

General Information

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

General Policies

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

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

Conditions of Admission

The Graduate School will notify the applicants of the admission decision. Admission to the University is often contingent upon the subsequent receipt of satisfactory and official college or university transcripts and verification of baccalaureate degrees. Failure to submit such documents may result in the cancellation of admission. Refer to Provisional Admission (p. 12) for more information.
Ownership of Submitted Documents
All credentials and documents submitted become the property of the University of West Florida. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.

Fraudulent Records
If it is found that an applicant has made a false or fraudulent statement or a deliberate omission on the application for admission, the residency statement, or any other accompanying documents or statements, the applicant may be denied admission. If the student is already enrolled when the fraud is discovered, the case will be adjudicated using the procedures specified for violations of the UWF Student Conduct System as contained in the Student Handbook.

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.

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. The application processing fee can be transferred within 3 semesters. 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. The application for admission and a non-refundable $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 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 may 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 to which they 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). Test scores are considered official only when they are sent directly to the Graduate School from the testing agency. Examinee copies are not considered official. Test scores must be no more than five years old.

Applicants should contact the graduate department to which they applied to inquire as to specific departmental admission test deadlines. However, the majority of departments recommend that applicants complete the appropriate graduate admission test well in advance of their anticipated semester of admission (no later than April for fall semester applications, no later than August for spring semester applications, and no later than January for summer semester applications). It is recommended that applicants to a doctoral program complete the graduate admission test one year prior to their anticipated semester of admission. The GRE, GMAT, and MAT are offered several times a year at numerous testing centers in the U.S. and abroad. Advanced registration is required. Registration forms, as well as detailed information on the availability and character of the examinations may be obtained from the UWF Testing Center.

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

Deadlines for Applications and Supporting Documents
The final deadlines for applications and supporting documents for graduate applicants are:

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

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

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

Criteria for Admission to the ABM Program

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

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

Application to the ABM Program

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

• A prospective student who meets the eligibility requirements must schedule a meeting with his/her undergraduate advisor and graduate advisor to develop a degree plan for his/her bachelor's to master's degree programs. The degree plans must clearly indicate the courses (a maximum of 12 graduate semester hours at either the 5000 or 6000 level) that will be applied to both the bachelor's and master's degrees. Undergraduate courses cannot be used to meet graduate degree requirements.
• The prospective student must be given a copy of these guidelines.
• The prospective student must submit an ABM Program Application. The application must be approved by the department chair(s) and a copy must be submitted to the Graduate School.
• Before the student can persist to the master's degree, during the semester prior to undergraduate graduation, students must submit the standard graduate application for admission (or the express admission application) to the Graduate School including:
  • The application processing fee (unless submitting the express admission application)
  • Official copy of all non-UWF transcripts
  • Acceptable graduate admission test score. If submitting an express admission application, students should check with their department to make sure a graduate admission test score is required.
• Students who are a part of the ABM program cannot be conditionally admitted into the graduate program; they must either be provisionally or fully admitted into the graduate program.

Express Admission to a Master's Program

Express admission is a special admissions procedure to quickly admit current UWF undergraduate students to our master's programs. Express admission allows for high-performing, currently enrolled UWF undergraduate students to continue their graduate study at UWF by going through a shorter application process, eliminating the formal graduate admission application submission, the application processing fee submission, and, some, if not all, departmental admission requirements submission. Some graduate departments waive the graduate admission test 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 department chairperson of the proposed master’s program.
• An applicant who has not yet graduated must be a candidate for graduation from UWF with an active Application for Graduation.
  • Admission is provisional upon the awarding of the baccalaureate degree prior to commencement of graduate study.
• An applicant is eligible to be express admitted to and begin a graduate program for up to four semesters after graduating from UWF (e.g.: a student who graduates in the spring 2019 semester must be admitted with an entry term no later than the summer 2020 semester).
  • Submitting an application for enrollment to a UWF graduate program or enrolling at another institution of higher learning after graduating from UWF disqualifies an applicant from eligibility for express admission.
• Applicant must meet published UWF graduate admission criteria and have a UWF institutional undergraduate GPA of 3.25 or higher.
• 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 admitting department or college 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. 13) to be considered for non-degree seeking status.

For enrollment information, see the Non-Degree Seeking Status (p. 45) section of the Catalog.
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.
After Admission

Apply for Financial Aid
Refer to information on Financial Aid.

Apply for Housing
Refer to information on Housing.

Apply for Military and Veterans Benefits
Refer to information on Military and Veterans Benefits.

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 completed as a prerequisite to matriculation or registration. This form is submitted through Med+Proctor. See these instructions for creating a Med+Proctor account.

It is requested that the UWF Mandatory Immunization Health History Form is completed prior to registration for timely processing. Late, incomplete, or inaccurate information may delay registration.

A single sign-on process will be available through their MyUWF account. Refer to the UWF Student Health Services website for more information.

Immunization Exceptions/Waivers
Fully online students who will not be taking any courses on a UWF campus or location are not required to provide proof of immunization but should submit a waiver through the MyUWF Immunization Status App. If the student enrolls in a face-to-face course or has to come on campus for any reason, the student will be required to submit the required immunization documentation through Med+Proctor.

Refer to information on the Student Health Services website regarding Immunization Exceptions and Waivers.

Submission of Documentation
The immunization verification process is now handled through our partnership with Med+Proctor. Please follow the instructions linked on the Student Health Services website to create your Med+Proctor account and submit the proper immunization forms and information.

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

Register for Classes
Refer to information on Registration Policies and Procedures (p. 49). A 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.

Obtain Parking Permit
Purchasing a vehicle on campus requires a parking permit which can be purchased online through the ‘Parking Transaction Portal’ in MyUWF.

Confirm Residency for Tuition Purposes
Refer to information on Residency (p. 31).

Pay Tuition and Fees
Refer to information on Tuition and Fees (p. 26).

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/). Refer to the Student Rights and Responsibilities section of the UWF Student Handbook for more information.

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.

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 Appeals and Grievance Process section of the Student Handbook.

Prohibition of Discrimination, Harassment, and Retaliation
The University is dedicated to providing an inclusive and welcoming environment for all who interact in our community. In continuing to build and maintain a diverse environment, UWF strives to attract students, faculty and staff from a variety of cultures, backgrounds and life experiences. The University is committed to ensuring that each member of the University community is permitted to work and study in an environment which is free from discrimination and harassment based on the following protected classes: age, color, disability, gender, gender identity, sex, sexual orientation, marital status, national origin, race, religion, and veteran status and which is free from prohibited retaliation, as described in the policy (below).

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.

Full University Policy: P-13.08-3/17 Prohibition of Discrimination, Harassment and Retaliation

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. Refer to the Graduate School website for more information.

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 Academic Engagement and Student Affairs 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
(850) 474-2563
coh@uwf.edu

*College does not have a formal advising center. 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.studentaid.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 (https://uwf.edu/offices/human-resources/careers/) 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.

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.
Military and Veterans' Information

Military and Veterans Resource Center

The University of West Florida recognizes that many military affiliated and Veteran students face formidable barriers in the pursuit of a college degree. As part of the University’s continuing commitment to educational opportunities for these students, 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 Veterans Resource Center (MVRC) located in building 38, room 147 on the Pensacola Main Campus. The primary goal of the MVRC is to help 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®/DEA benefits, third party military funding such as TA, MyCAA and EDD, the university process, support service, mentoring and tutoring, etc. Contact the MVRC (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 and veterans. Previous college credit, work experience, service schools, and other forms of nonacademic experiences will be considered for college credits. For further information, contact the Office of Undergraduate Admissions (uwf.edu/gradadmissions), or Graduate school Admissions (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 successfully complete their educational goals. Our VetSuccess Coordinator can assist all students with all things related to VA.

Academic Progress

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

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

Graduate VA Academic Probation

For students using VA education benefits, a student will be placed on probation by the VA Certifying Official upon completion of the semester during which the UWF 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.

Graduate VA Academic Suspension

For students using VA education benefits, a student with two (2) consecutive semesters of UWF cumulative GPAs below a 3.0 will be placed on VA Academic Suspension. VA Academic Suspension will place a hold on the student’s VA educational benefits until the following action is completed:

- The student enrolls in the MVRC Mentoring Program and completes the prescribed plan provided by the MVRC Mentor Coordinator.

Graduate VA Termination

For students using VA education benefits (other than Chapter 31), the student’s VA education benefits will be terminated if the student’s UWF cumulative GPA remains less than a 3.0 for three (3) consecutive semesters. The MVRC will notify the VA of unsatisfactory progress, which will result in the VA disallowing the use of any remaining education benefit until the student’s UWF cumulative GPA rises above a 3.0.

Withdrawals

Active 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 MVRC and provide a copy of military orders immediately. Transcripts of students who have adhered to this procedure and were subsequently withdrawn, awarded refunds, or given incomplete grades will be annotated with an appropriate statement indicating action taken was due to military service.

Students who may be eligible for Military Duty Withdrawal are:

1. Students currently on active duty with any unit of the U.S. Armed Services who are not able to complete their courses due to unanticipated increases in operational tempo (Command letter required) or unexpected duty assignments.
2. Members of a National Guard, Air National Guard, or Military Reserve unit who receive orders 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.

Medical Withdrawal

Medical withdrawals are processed by the Dean of Students. Students who may qualify for a medical withdrawal can contact the MVRC Mentor Coordinator to assist with the Request for Medical Withdrawal and supporting documents required by Case Management in the Dean of Students Office. (Last date of attendance or approved date of withdrawal is required.)

Tuition Assistance (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 Tuition Assistance (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 students owe the university. This amount will be billed to 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, the University will apply the refund against the debt that results from unearned TA.

**Tuition Assistance (TA) Official Withdrawal Date**

Students who stop attending and receive NF 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.

For clarification or questions, contact the MVRC (mvrcta@uwf.edu or 850-474-2550).

**Official Withdrawal Date**
The date you officially withdraw from a course. (NF grades for core classes with No Attendance policy should not be submitted.)

**Enrollment**

**Educational Objective**

For students using VA education benefits, to receive educational benefits from the DVA, the student must be pursuing an approved bachelor's or graduate-level degree, or be enrolled in a VA-approved degree or certificate. VA will only pay benefits for classes required for graduation or for completion of an authorized VA certificate program. Required courses must be reflected in a student’s degree audit before they can be certified for VA benefits. Substitutions to the degree audit must be made prior to VA certification. To avoid delays in a certification, it is a student’s responsibility to ensure that they are only enrolling in required courses as listed in their degree audit. Failure to do so may prohibit certification of classes in future semesters or the current semester when the student isn’t registered for the correct classes. Students who do not have a degree audit must submit a Program Description Sheet (PDS) approved by the Academic Department for the program they are pursuing.

**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://ist.doded.mil/smart/welcome.do](https://ist.doded.mil/smart/welcome.do)
- Air Force: [https://www.airuniversity.af.edu/Barnes/CCAF/Display/Article/803247/](https://www.airuniversity.af.edu/Barnes/CCAF/Display/Article/803247/)

**Reporting Requirements**

For students using VA education benefits, certification of courses to the VA is not automatic and must be requested each semester by students via the VA Enrollment Certification Form (ECF) found in MyUWF (my.uwf.edu). It is the responsibility of each student to immediately notify the MVRC of any changes to a current ECF or to anything which may affect the student's receipt of VA education benefits. Failure to do so may result in an overpayment and subsequent indebtedness to the Federal Government.

**Change of Address**

All students must report address changes to UWF. For students using VA education benefits, the change must also be reported to VA. Students can update their address via the Contact and Privacy Information app in MyUWF (my.uwf.edu). Students using VA education benefits, except Chapter 35 students, can contact the VetSuccess on Campus (VSOC) Counselor at the MVRC Office to change their address with the VA. Chapter 35 students must contact the VA at 1-888-442-4551 to change their address.

**Degree and Certificate Programs**

All Degree and Certificate programs listed on the VA public WEAMS for UWF are approved for VA education benefits. Check with the VA public WEAMS Institution Search or contact the UWF MVRC for further information (mvr@uwf.edu or 850-474-2550).

**Registration & Attendance**

**Priority Registration**

All military service personnel, Veterans, and their dependents/spouses who are using VA/DEA benefits, and registered with the Military and Veterans Resource Center, will be given priority registration to begin on the first day of advance registration through the End of Drop/add. Students can apply for a time ticket to register for classes via their MYUWF account.

**Class Registration**

Students using VA education benefits, after registering for classes, must request VA certification via the VA Enrollment Certification Form found in MyUWF (my.uwf.edu). Students may visit or contact the MVRC for further assistance (mvr@uwf.edu or 850-474-2550). The earlier a student registers and provides the registration information to the MVRC, the earlier certification paperwork can be forwarded to the VA.

Students in an ROTC program can be certified for courses required for their degree (including electives) and for courses required for the ROTC program.

**Changes to Schedule**

Any additions, drops, withdrawals, or other interruptions must be immediately reported to the UWF MVRC by the student (mvr@uwf.edu or 850-474-2550), in addition to submitting a new ECF that reflects the changes. Students must still be enrolled in at least one course to submit an ECF.

**Class Attendance**

Routine class attendance is required for those receiving VA benefits. It is the student’s responsibility to inform the instructor(s) concerning absences 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 MVRC. An NF grade is assigned to students who have ceased attending class but have not officially withdrawn. NF Grades count 0 grade point hours in the GPA. If a student receiving VA benefits receives a grade of NF, the VA will be notified and benefits may be reduced accordingly. A debt could be sent to the student for payments received during the time of the class that was not attended.

**Part of Term Courses**

Part of Term courses are those beginning and/or ending on dates other than the regular semester dates. These are referred to as: Part of Term 5, Part of Term 6, Part of Term 7, Part of Term 8 and Part of Term 9. The Part of Term designation is determined by which month in the semester the course begins; i.e. a course starting in the first month of the semester but beginning/ending on a non-standard date would be identified as Part of Term 5. Students using VA education
benefits should be aware that the VA 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 (mvrc@uwf.edu or 850-474-2550).

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<td>Summer 2021</td>
<td>05/10 - 08/06</td>
<td>05/10 - 06/22</td>
<td>06/24 - 08/06</td>
<td>06/07 - 08/06</td>
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</table>

**Graduate Non-Standard Term Enrollment Status Policy**

**Department of Veterans Affairs Educational Beneficiaries**

This Non-Standard Term Enrollment Status 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.**

**VA Students**

Graduate full-time for the standard term (term 1) is 6 credit hours for all semesters.

The UWF catalog describes 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 Student 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 credit hours 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 benefits check reflects the sum of benefits earned each day within the month. The benefits earned each day depends upon the total training time (or rate of pursuit) the student is enrolled in 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. 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 the rate of pursuit based upon the equivalent full-time that UWF certifies for the term and will determine the sum of training time for 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).

<table>
<thead>
<tr>
<th>Semester</th>
<th>1 Term</th>
<th>2 Term</th>
<th>3 Term</th>
<th>4 Term</th>
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<td>05/10 - 06/22</td>
<td>06/24 - 08/06</td>
<td>06/07 - 08/06</td>
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**Veterans Benefits**

The University of West Florida is approved by the Florida Department of Veterans Affairs (VA) for the education of veterans, active duty personnel, reservists, and eligible dependents under current law. The Military and Veterans Resource Center (MVRC) (uwf.edu/mvrc) is the point of contact for students receiving benefits from the VA. The office has a professional staff augmented by Transition Coaches, School Certifying Officials, a Mentor Coordinator, and a VetSuccess on Campus Counselor to assist in providing information about entitlements, filing claims to the VA, and certifying enrollment. The MVRC monitors the academic progress of students receiving VA educational benefits. Students who receive 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 minors, grade forgiveness, and other actions may affect eligibility for educational benefits. Contact the UWF MVRC for more information (mvrc@uwf.edu or 850-474-2550).

**Yellow Ribbon**

The University of West Florida is an approved participating Yellow Ribbon Institution for the 2020-2021 catalog year. The Yellow Ribbon program is designed to help Non-Florida Residents cover the cost of their education that exceeds the in-state tuition and fees. It is only available to those individuals eligible for the maximum benefit rate (100%) of the Post 9/11 GI Bill (Chapter 33), and also who are not eligible for the C.W. Young Veteran Tuition Waiver. Yellow Ribbon will be granted to the first 250 qualified students on a first-come, first served basis.

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

For students using VA education benefits (other than Chapter 31) who are honorably discharged veterans of the United States Armed Forces, the United States Reserves Forces, or the National Guard who physically reside in Florida, as well as their dependents currently using VA education benefits who are physically residing in Florida are
eligible for a waiver of out-of-state fees. The student must submit the “Veteran/ Veteran Dependent O/S Waiver Form” online via MYUWF (my.uwf.edu) and upload a copy of the Department of Defense Form 214 (DD-214; veterans only), Certificate of Eligibility (COE; dependents only), documentation of their residence, and completed Veteran/ Veteran Dependent O/S Waiver Form. 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. For students using Chapter 31 benefits, in-state tuition is automatically granted if living in the State of Florida regardless of your residency classification. Please notify VSOC if your residency is listed as a Non-Florida resident (850-474-2550).

VA STEM Scholarship

This program is for Veterans and Fry Scholars seeking an undergraduate STEM degree or who have earned a STEM degree and are seeking a teaching certification.

Courses Not Eligible for Benefits

Students using VA education benefits will receive an automated email whenever they enroll in a course that does not meet their 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 add/drop period;
- Repeated courses that have been previously completed with a grade of “D-” or higher unless the student’s program requires a higher grade; this includes courses transferred from other colleges;
- Courses taken to fulfill requirements at another institution unless a transient authorization is received;
- Courses taken on an audit or noncredit basis or courses in which the permanent grade is “non-punitive,” e.g., “W” or “V”;
- Courses for which an “I” 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 VA will be notified retroactively;
- Remedial & deficiency courses;
- Distance Learning classes designed for career enhancement or continuing education.

The VA 85/15 Rule

The VA 85/15 calculation was created by VA to ensure that the education benefits of Veterans were not being spent under fraudulent circumstances. The 85/15 provides the VA the confidence that an education program is legitimate if at least 15% of students in the program do not receive VA education or full institution scholarships. The MVRC tracks the 85/15 for each UWF program to ensure compliance and notifies the student and institution should compliance for a particular program become an issue, subject to the VA regulation exceptions.

Tuition Information

Tuition Assistance (TA) Vouchers & DoD/ Service Civilian TA

Submit completed and approved Tuition Assistance (TA) Vouchers to the MVRC (mvrcta@uwf.edu or 850-474-2550) before the end of regular registration (day before classes begin). Make sure that the dates on your TA voucher match the dates for the course(s) that you are enrolled in. If you have courses in more than one term within the semester (see Part-of-Term Courses), you will need to submit a separate TA Voucher for each term. VOUCHERS WITH INCORRECT DATES OR COURSE INFORMATION CANNOT BE PROCESSED.

TA vouchers can be submitted by:

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

VA Tuition Deferment

Chapter 33

Beginning Aug 1, 2019, VA students using Post 9/11, Chapter 33 or Voc. Rehab, Chapter 31 benefits ONLY will be issued a 90-day deferment in accordance with Public Law 115-407 sec. A 103. This Tuition Deferment will be granted to avoid the assessment of late fees, denial of access to classes, libraries, or other institutional facilities, or the requirement to borrow additional funds due to the delayed VA disbursement of funding. Students must provide approved VA documents (1905 or TEB+1990E, 1990, 1995, or Certificate of Eligibility, (COE)) to qualify for the deferment and submit an Enrollment Certification Form. Students will be granted the deferment for each term enrolled within a semester starting on the first day of the class or when tuition and fees are submitted. If students are rated at less than 100% eligibility for their Chapter 33 Post 9/11 benefits, a different deferment will be placed for the remaining portion and will be owed at the end of that deferment. Refer below for further guidance:

VA students are provided a VA Tuition Deferment to reduce/prevent student late fees and from being dropped from classes for non-payment. VA status is determined by individuals who have submitted a request to use VA benefits by submitting an ECF via MyUWF (my.uwf.edu) and provided proof of VA benefits with one of the following VA application forms (1990, 1990e, 1995, 5490, 5495).

Deferred payment status for tuition and registration fees may be granted upon application by the student according to the following: 1) the University reserves the right to deny deferral status to students who have established an unfavorable credit rating, 2) students receiving financial aid are ineligible for tuition deferments, 3) deferral eligibility is granted to students receiving veterans’ educational assistance benefits from federal or state assistance programs if aid is delayed in transmission to the student due to circumstances beyond the student’s control, 4) veterans and other eligible degree-seeking students receiving benefits on active duty and under Chapters 30, 33, 35, 1606, and, U.S.C., are eligible for one deferment each academic semester and, 5) a 90-day deferment will be issued in term 1 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 by email to mvrcta@uwf.edu prior to the deferment due date and not after the last day of the semester.
VA Deferments for Chapter 30, 1606, 35 and Chapter 33 Students Without COE

<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 2020</td>
<td>Nov 22</td>
<td>Sep 23</td>
<td>Nov 18</td>
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<td>Apr 10</td>
<td>Feb 10</td>
<td>Apr 14</td>
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<tr>
<td>Summer 2021</td>
<td>Jun 08</td>
<td>Jun 08</td>
<td>Jul 23</td>
<td>Jul 07</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 (ECF) found in MyUWF (my.uwf.edu). Failure to make payment by the deferment due date will result in a $100 late payment fee (this fee is not covered by VA benefits). Students who do not make payment or request a deferment may be removed from classes for non-payment. Students who are removed due to non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee (this fee is not covered by VA benefits). 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 tuition and fees owed. A veteran must submit a fee appeal explaining the circumstances behind the request. This is not an automatic approval.

Purple Heart

The Purple Heart Waiver provides a tuition and fee waiver for Florida military veterans who received a purple heart OR combat decoration that is ‘superior in precedence.’ Purple Heart, Bronze Star (must be ‘V’ designation or device), Distinguished flyer cross, Legion of Merit (must be ‘V’ designation or device), Silver Star, Air Force Cross, Distinguished Service Cross and Medal of Honor. To apply for the waiver, go to MyUWF (https://my.uwf.edu/) to fill out the Military Honor Waiver.

Advance Payment

Advance payment of VA benefits may be available to new students and those students who were not enrolled in the previous semester. Applications should be made through the MVRC no later than 45 days before the first day of classes of the anticipated enrollment semester.

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 not residents of Florida and who are residing or are stationed outside the state of Florida, shall have all non-resident tuition and fees waived by the university. To apply for this waiver, contact the UWF MVRC (mvrcta@uwf.edu or 850-474-2550).

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 UWF MVRC (mvrcta@uwf.edu or 850-474-2550).

Military Active Duty and Civilian General Tuition Assistance Information

Service members and civilians of the U.S. Armed Forces may be eligible for the Tuition Assistance (TA) programs which pay for voluntary higher education. General military tuition assistance information is available from the Military Tuition Assistance Information Center (http://www.militaryta.com). Tuition assistance information for each specific service is available at the following websites:

- ARMY*: https://www.goarmyed.com/
- National Guard for TA*: https://www.nationalguard.com/education
- FL National Guard for EDD*: https://edd dma.myflorida.com/ling

* Due to DoD secure network firewalls, this site may not work in some browsers.

MyCAA Scholarship

The Military Spouse Career Advancement Accounts (MyCAA – Spouse Tuition Assistance) is a Department of Defense program 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. Also eligible are spouses married to members of the National Guard and Reserve Components on Title X orders in these same pay grades. This scholarship assists military spouses in pursuing: licenses, certificates, and certification or associate degrees necessary to gain employment in high-demand, high-growth portable career fields and occupations.

Eligible spouses will need to submit an Education Training Plan (ETP) to their MyCAA advisor by uploading it to the MyCAA internet portal. To receive an ETP, please contact the MVRC at mvrcta@uwf.edu citing the program you are seeking to enroll or are enrolled in, and the program start and end dates. Additional information can be found on the UWF MVRC MyCAA webpage.
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.

2020-2021 Tuition and Fees

Refer to UWF Tuition and Fees for the 2020-2021 academic year tuition and fees information. Tuition and Fees for the 2021-2022 academic year will be published as soon as they are established.

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. An echeck payment results in a service fee of $25.00. The payment is placed in an electronic debit of your bank account. There is no additional fee assessed for an echeck payment. If your payment is returned as unpaid by your bank for any reason, your student account will be assessed a return item fee.
- Credit and debit cards may also be used to make payments for tuition and fees, housing, and mandatory meal plans through MyUWF. The University partners with CashNet to process credit and debit card payments and a convenience fee of 2.75% will be charged. This fee will be added to your total payment and is non-refundable. The convenience fee of 2.75% will be displayed prior to completion of the transaction. Your completion of the transaction acknowledges acceptance of these payment terms.
- Students that elect to pay with their Customers BankMobile VIBE account will also be assessed a convenience fee.
- Students may elect to pay with a Foreign Currency online through MyUWF, WesternUnion, a respected leader in the realm of currency exchange, provides a mechanism to facilitate foreign currency payments.
- A parent portal 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. 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. 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.

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 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**

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 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 can follow these simple steps to select a refund preference:

1. Log into my.uwf.edu.
2. Select Financial Resources (for students) and click on BankMobile Disbursements.
3. Select how you’d like to receive your money.

For more information, visit BankMobile.

**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.

Deferment 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 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.
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 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 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 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 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 to avoid the assessment of a $100 late payment fee or the cancellation of registration. Courses such as directed studies, practicums, internships, music and theater performance, continuing education, and other one-on-one course situations such as theses and dissertations are not...
authorized. Certain self-funded programs are eligible subject to the availability of funds. Refer to Human Resources 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.

**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. 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 appeal: a student has completed a course due to illness at the end of the semester to which 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.
5. Withdrawal due to conflicts with school/work/life balance.

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. Any additional appeals must be submitted within two weeks of the appeal.
decision. After two weeks, the appeal is closed with no further consideration.
Residency for Tuition 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, 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 (undergraduate applicants) or the Graduate School (graduate applicants). Questions regarding a change in residency status for currently enrolled students should be directed to the Office of the 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), 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)(d), 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), 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.  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 (new graduate students) or the Office of the 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), 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 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.)
- 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, 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...
Residency for Tuition Purposes

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., 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, Florida Statutes.) (Minimum Requirement: a 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. Student now has established legal residence and intends to make Florida his/her permanent home. (Minimum Requirement: a 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. (Minimum Requirement: evidence of previous enrollment as a Florida resident: transcript or letter from the institution)
- 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. (Minimum Requirement: evidence of previous enrollment as a Florida resident: transcript or letter from the institution)
- 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. (Minimum Requirement: a 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. (Minimum Requirement: a 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. (Minimum Requirement: a copy of marriage certificate and/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. (Minimum Requirement: proof of scholarship and Latin America or Caribbean residency.)
- Southern Regional Education Board’s Academic Common Market graduate students attending Florida’s state universities. (Minimum Requirement: 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. (Minimum Requirement: employment verification/payment agreement).
- McKnight Doctoral Fellows and Finalists who are United States citizens. (Minimum Requirement: verification from 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. (Minimum Requirement: proof of enrollment in a 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. (Minimum Requirement: 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. (Minimum Requirement: 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, a reduced out-of-state tuition rate. For more information, new undergraduate students should contact the Office of Undergraduate Admissions, new graduate students should contact the Graduate School, and currently enrolled students should contact the Office of the Registrar.

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

- Be an independent person, according to the Federal Income Tax Code (students enrolled in a graduate program are considered independent for residency purposes), who has established and maintained legal ties within the state of Alabama as evident by a combination of driver’s license, vehicle registration, voter registration, Declaration of Domicile, etc. for the previous 12 months. If qualifying as a spouse of a legal resident of Alabama, a copy of the marriage certificate is also required.
- Be a dependent person, according to the Federal Income Tax Code, whose parent or legal guardian has established and maintained legal ties within the state of Alabama as evident by a combination of parent/guardian’s most recent IRS tax return (section listing dependents) and parent/legal guardian’s driver’s
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
- Florida voter’s registration
- Florida vehicle registration
- Declaration of Domicile in Florida s.222.17 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 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 proving 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 from 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 month 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

Reclassification of Residency Status

Students who enter as nonresidents who intend to apply for recategorization after their first semester 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.

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.

- Florida driver’s license or State of Florida identification card
- Florida voter’s registration
- Florida vehicle registration
- Declaration of Domicile in Florida s.222.17 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 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 proving 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 from 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 month 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
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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.
• 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. 35)
- Academic Credit Policies (p. 35)
- Academic Programs and Curricula (p. 36)
- Academic Standing (p. 38)
- Appeals/Waivers/Exceptions (p. 39)
- Class Attendance (p. 41)
- Degree Requirements (p. 42)
- Enrollment (p. 45)
- Grade Adjustment (p. 46)
- Grades (p. 46)
- Graduation (p. 48)
- Registration (p. 49)
- Research Tools
- Student Records (p. 51)
- Technology Requirements (p. 53)
- Transcripts
- Transfer of Credit (p. 53)
- Tuition Waivers (p. 54)
- Withdrawals (p. 55)

Academic Calendar and Departmental Deadlines

Each student should be aware of the deadline dates in the current official Academic Calendar 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 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 consideration alternative delivery methods, measurements of student work, academic calendars, disciplines, and degree levels.

*UWF AC-19.01

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

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

Directed Studies

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

**Master's, Specialist, & Ed.D.**

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.

**Ph.D.**

A Ph.D. program may include up to three courses with a maximum
total of nine semester hours of directed studies. Directed studies must
be at the 6000 level.

**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.

* UWF AC-41.01-01/17

**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 re-enrollment 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, offering 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 for more information.

Student Information on Credit-Bearing Certificates

University Policy, AC-13.02

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 in MyUWF. 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 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 degree program must complete a new application for graduate admission. Contact the Graduate School for more information.

Ed.D. 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.

Ph.D. Program

Students admitted and enrolled in course work in the Ph.D. program, choosing to change their degree program, must apply for admission through the Graduate School. Students must complete requirements in effect at the time of admission.

Change of Track or Specialization

Some graduate degree programs offer more than one track of study. Graduate students wishing to pursue a different track of study under their current graduate program may do so with departmental approval. The semester in which the track change goes into effect will determine the new catalog year for the graduate degree program. To be eligible for this option, students must be admitted to a graduate degree program and registered for classes. This option is not available during the application process.

Ed.D. Specialization Change

Ed.D. students wishing to pursue a different specialization under their current doctoral degree program may do so with departmental approval. The semester in which the specialization change goes into effect will determine the new catalog year for the doctoral degree program. To be eligible for this option, students must be admitted to an Ed.D. degree program and registered for classes. This option is not available during the application process.

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. 15) 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 ineligibility. A copy of this letter to the student must be sent to the Graduate School.

**Graduate Assistantship Eligibility**

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

**Withdrawal**

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

*AC-20.02-12/16

**Academic Standing**

**Academic Standing**

Academic Probation, Suspension, Reinstatement, and Dismissal for 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 GPA. Academic Standing is calculated at the career level (i.e. Undergraduate, Masters, Specialist, Doctoral), not at the program level.

*UWF/REG 3.008

**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 institutional 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 institutional UWF GPA falls below 3.25.

**Academic Suspension**

**Master's and Specialist**

A master's or specialist student not achieving an institutional 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 an institutional 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.

**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 an institutional 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 an institutional UWF GPA of 3.25 for the next academic semester of attendance following the date that the student was placed on Academic Probation.

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.

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 an institutional UWF GPA lower than 3.0, will continue on Academic Probation. A student who fails to achieve a semester GPA 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 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 3.25, but an institutional UWF GPA lower than 3.25, will continue on Academic Probation. A student who fails to achieve a semester GPA 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 any of 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
6. Being suspended for a 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. 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 and Instructions for Starting an Appeal are available through the Office of the Registrar.

Grade Appeal

Students should consult University Policy AC-16.02 for information regarding a grade appeal process. Grade appeals for courses cross-listed with another department within another college will be heard through the college that houses the department, regardless of the departmental affiliation of the faculty member teaching the course. Consult the Student Grievance process for information on appealing grades.

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.

*AC-16.02-01/14

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.

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 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 for more information.

*UWF/REG 3.030

**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.

- Students may seek assistance in navigating the appeal process from the SGA Student Advocate or the UWF 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 UWF Student Ombudsperson or the Dean of Students office.
- redress by filing a student grievance, 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
- Coordinator for Equal Opportunity Programs
- Dean of Students
- Director of Housing and Residence Life
- Office of the General Counsel

Students who believe they have been harmed by other students should seek guidance from the Dean of Students Office.

Students should contact the Dean of Students Office for more information.

*UWF/REG 3.011

**Other Appeals**

Other appeal processes, including those listed below, can be found at the University Appeals Process webpage.

- Academic misconduct code appeals
- Academic probation and suspension appeals
- Late class or University withdrawal appeal
- Waiver of graduation requirement appeal
- Reinstatement after removal for non-payment appeal
- Fee appeals
- Repeat course surcharge waiver appeal
- Discrimination, harassment and retaliation complaints
- Financial aid appeals (satisfactory academic progress and other financial aid related appeals)
- Grade appeals (AC-16.02)
- Housing charges appeals
- Housing Cancellation appeals
- Library fine appeals
- Parking fine appeals
- Residency for in-state tuition appeals
- Student conduct code appeals

**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, 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
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. 48) for more information;
- Complete degree requirements within six years from the date the UWF degree is awarded, refer to the Time to Degree (p. 44) 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. 44);
- 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 30 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 six 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 (Ed.D.) 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 specific Ed.D. specialization, approved by the Ed.D. Program Director and CEPS 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 institutional 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. 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.

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 12 semester hours of doctoral dissertation coursework. Thereafter, candidates are required to register for a minimum of 1 semester hour of dissertation coursework each consecutive semester (excluding summer) until the student has completed 18 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 it is determined 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 Ed.D. 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.

**Doctor of Philosophy (Ph.D.) Degree Requirements**

To be eligible for a Ph.D. degree, a student must meet the following requirements.

- 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.
- Complete the minimum number of semester hours as identified in the program of study.
- Complete all requirements to advance to candidacy as identified in the program of study.
- Maintain a minimum institutional program GPA of 3.25.
- Successfully complete and orally defend a dissertation.
- 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 who need to be readmitted will be required to meet the degree requirements of the current Catalog.

**Transfer of Credit**

The department chairperson for the graduate program to which an applicant applies has ultimate authority in determining which courses are applicable toward the requirements for that degree at UWF.

Graduate transfer credits, including those from a previously earned graduate degree, may be transferred upon the approval of the student’s academic department. Graduate credits may be transferred from an institution that is 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 three years of the date of admission, but no more than seven years at the point of graduation.

Students entering the program with a previously earned approved graduate degree are eligible to transfer a maximum of six semester hours of graduate coursework from another institution. Students who do not hold a relevant graduate degree in an approved area may apply a maximum of 24 semester hours of relevant graduate coursework from another institution toward the 30 hours of preparatory coursework requirement.

The program director’s permission is required for the credits to be accepted. Students may petition for a greater number of hours to be credited to the Ph.D. program. Exceptions on transfer work will be determined by the Ph.D. Program Director and must be approved by the Graduate School.

**Time to Degree**

**Master’s Degrees & Graduate Certificates**

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 Degrees**

All coursework (including transferred credit) must be completed within three years from the date of admission to UWF but no more than than seven years at the point of graduation. 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.

*Faculty Senate 2/19/10*

**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. 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.

**Thesis Requirement**

Theses are to be prepared in accordance with the specifications given in the UWF Thesis Guide prepared by and available in the Graduate School. All theses must be produced in electronic format (unless a hard copy is required by the individual department). Deadlines for submission to the Graduate School are posted on the Graduate School’s Theses and Dissertations page.

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.

**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.

**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 (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.

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. 45) 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 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 for specific dates.

Helpful Information

- **Immunizations:** UWF requires the completed UWF Mandatory Immunization Health History Form to be completed through Med +Proctor as a prerequisite to matriculation or registration. More
information and instructions on the UWF Immunization Policy can be found on the Student Health Services website.

• International Students: International students in F-1 status should consult with the Director of International Affairs 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.

• Student ID Card: All Pensacola campus students are required to purchase a Nautilus Card.

• Student Policies: Non-degree students are subject to the student policies stated in the current Catalog and Student Handbook.

• Student Privacy: Non-degree students should review the Student Educational Records (p. 51) section of the current Catalog to understand privacy information.

See the Registration (p. 51) 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/.

State Authorization Reciprocity Agreement (SARA)

The State Authorization Reciprocity Agreement (SARA) is a national initiative to provide more access to online courses and programs while maintaining compliance standards with state regulatory agencies. SARA allows institutions to provide online courses outside of their own state borders by seeking and maintaining state approvals via a streamlined process. To learn more about SARA and UWF’s state authorization status, please visit https://uwf.edu/offices/registrar/ registration/distance-learning-state-authorization/.

Grade Adjustment

Grade Changes

Students graduating from UWF having earned a letter grade of “F, D, D+; 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.

For information about grade appeals, see the Appeals, Waivers, and Exceptions (p. 40) section of this Catalog.

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

A graduate 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, 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>
</tbody>
</table>
Grade Point Average (GPA) Types

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

Institutional/University (UWF) GPA

The institutional (UWF) GPA is the sum of all UWF quality points earned divided by the number of all UWF hours attempted. The resulting quotient is the total institutional (UWF) GPA.

The UWF Institutional 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. 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 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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>Above average</td>
<td>3.30</td>
</tr>
<tr>
<td>C</td>
<td>Above average</td>
<td>3.00</td>
</tr>
<tr>
<td>C-</td>
<td>Average</td>
<td>2.70</td>
</tr>
<tr>
<td>D+</td>
<td>Below average</td>
<td>2.30</td>
</tr>
<tr>
<td>D</td>
<td>Below average</td>
<td>2.00</td>
</tr>
<tr>
<td>D-</td>
<td>Average</td>
<td>1.70</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0.00</td>
</tr>
<tr>
<td>NF</td>
<td>Non-attending/Fail</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</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>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>Withdraw</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>
</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.

Instructors are not required to grade the 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). 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.

**Passed by UWF Faculty Senate: 07/01/1999

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
<td></td>
</tr>
<tr>
<td>B</td>
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<td></td>
</tr>
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<td>B-</td>
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<tr>
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<tr>
<td>D+</td>
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<td>Below average</td>
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<tr>
<td>F</td>
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<tr>
<td>P</td>
<td>Pass</td>
<td>**</td>
</tr>
<tr>
<td>S</td>
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<td>**</td>
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</tr>
<tr>
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<td>Audit</td>
<td>**</td>
</tr>
<tr>
<td>XX</td>
<td>No Grade</td>
<td>**</td>
</tr>
</tbody>
</table>

** Grade not included when computing the GPA.
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 = 4 points * 3 credit hours = 12 grade points
B = 3 points * 3 credit hours = 9 grade points
C = 2 points * 3 credit hours = 6 grade points
C- = 1.70 points * 4 credit hours = 6.8 grade points

Total: 13 credit hours = 33.8 grade points

To determine your grade point average, divide the total grade points by the total credit hours under consideration. From the example above: 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 (p. 42) tab in the Degree Requirements section of this Catalog.

Doctoral

A student must maintain a minimum institutional program GPA of 3.25. No grade for a course taken as part of an approved doctoral 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.

Ed.D. Program

Refer to the Doctor of Education (Ed.D.) (p. 43) tab in the Degree Requirements section of this Catalog.

Ph.D. Program

Refer to the Doctor of Philosophy (Ph.D.) (p. 44) tab 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).

Review the Final Exam schedule for more information.

Access to Grades

Enrolled students may access their final grades via the Student Records menu in MyUWF after grades are due (see Academic Calendar).

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. 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.

Retroactive graduation to a prior semester will not be approved.

Certificate Programs

Students applying for a certificate should also follow the steps for Applying for Graduation. Awarded certificates will be listed on the student's academic transcript.

Master's and Specialist Degrees

Students fulfilling requirements for a UWF master's or specialist degree must follow the instructions for Applying for Graduation and also the Graduation Guide.

Ed.D. Degrees

Candidates for Ed.D. degrees should complete and submit the paper Doctoral Application for Graduation (paper form ONLY; not available online) to the Ed.D./Ed.S. 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.
Ph.D. Degrees
Candidates for Ph.D. degrees should complete and submit the paper Doctoral Application for Graduation to their advisor. Applications are available in the Office of the Registrar.

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. 49).
Participation in commencement does not guarantee that all graduation requirements are complete and that your degree will be conferred. An Application for Graduation must be completed/submitted by the date stated in the Academic Calendar 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).

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 graduations@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 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 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 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: 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 Academic Engagement and Student Affairs 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  
(850) 474-2563  
coh@uwf.edu

*College does not have a formal advising center. Contact your department for more information.

Cancellation of Registration and Reinstatement
Per UWF REG 4.0032, 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 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.

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.

Ed.D.

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 credit hours for which a student enrolled in an Ed.D. Program (p. 68) may register in any given semester without special permission is six.

Ph.D.

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 student enrolled in a Ph.D. Program (p. 71) may register in any given semester without special permission is 12.

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. 36) section of this Catalog for more information.

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. 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. See 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.

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, s.1009.24(d) & (e)

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. 45) section of this Catalog for more information.

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.

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.

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, 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 through their student portal, MyUWF.

Students are able to view their grades, schedules, holds, and financial aid information in MyUWF.

Repeat Course Surcharge

Under s.1009.285, 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 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.

*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) 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

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 through MyUWF.

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 states 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) complies with the Family Educational Rights and Privacy Act (FERPA) and Florida Statutes (s.1002.225) 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 (20 USC 1001: Education), data is available in the Dean of Students Office, (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. 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 through MyUWF.

- 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 account.

*UWF REG 3.017

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 for details.

It is important to remember that by choosing this option or withholding
Directory Information above, other areas related to 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.

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 and the Student
Communications Policy* (also see the My Account 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 or
Canvas.

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

  • ArgoNet Accounts
  • Campus Computer Labs
  • Computer Security
  • Canvas
  • ITS Help Desk
  • MyUWF
  • UWF Email, Calendar, and More (UWF Google Apps)

*SA-19.03.05/18

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 (SAR).

SA-19.03.05/18

Transfer of Credit

Graduate Transfer Credit

Transfer credits applicable to all graduate degrees are subject to the
following requirements:

• The receipt and coordination of the evaluation of graduate
  transfer credits is the responsibility of the Graduate School. The
  department chairperson for the graduate program to which an
  applicant applies has ultimate authority in determining which
  courses are applicable toward the requirements for that degree at
  UWF. Exact course equivalents are determined in consultation with
  the departments.

• Applicants may request reconsideration of a transfer credit
  evaluation. Such requests must be directed to the Graduate
  School.

• UWF will only accept transfer credits from those institutions
  accredited by a regional or national accrediting agency recognized
  by the United States Department of Education at the time the
  credits were earned. For applicability to a given degree program,
  departments may specify that transfer credits must be earned at an
  institution accredited by a specific accrediting agency.
• Applicants with credits from institutions that were not accredited by a regional or national accrediting agency recognized by the United States Department of Education at the time the credits were earned may petition the Graduate School for a re-evaluation of the credits earned at such institutions.
• UWF reserves the right to evaluate specific courses and deny graduate transfer credit.

*UWF/REG 3.033

Master’s and Specialist

In addition to the general Graduate Transfer Credit (p. 53) requirements, transfer credits applicable to master’s and specialist degrees are subject to the following requirements:

• Graduate credits may be transferred into a UWF master’s degree program 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 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.

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

• 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.

*UWF/REG 3.033

Doctoral

In addition to the general Graduate Transfer Credit (p. 53) requirements, transfer credits applicable to doctoral degrees are subject to the following requirements.

Ed.D.

• Students who have completed an Educational Specialist degree at the University of West Florida within the previous five years can transfer a maximum of 21 semester hours of graduate credit earned beyond a master’s degree into the Ed.D. program.

• Students are eligible to transfer a maximum of 10 semester hours of graduate work from other universities to the Ed.D. program.

• Students requesting to transfer course work from other institutions will be advised on an individual basis.

• Graduate transfer credit applicable to the UWF Ed.D. program must be approved by a student’s academic department.

• All hours transferred into the Ed.D program must align with the professional core and specialization course requirements.

• 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.

• Refer to the Ed.D. Degree Requirements (p. 43) for more information.

Ph.D.

• The department chairperson for the graduate program to which an applicant applies has ultimate authority in determining which courses are applicable toward the requirements for that degree at UWF.

• Refer to the Ph.D. Degree Requirements (p. 44) for more information.

UWF/REG 3.033

Certificates

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 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).

AC-13.02-04.14

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 proposed host institution and recommendation by the student’s academic 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 Waiver

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

Please read all information regarding Senior Citizen Tuition Waiver policies, procedures, and FAQs before proceeding.

Florida Statute 1009.26

State Employee Tuition 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 Waiver.

Please read all information regarding State Employee Tuition Waiver policies, procedures, and FAQs before proceeding.

Florida Statute 1009.265

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.

Students are encouraged to consult with their advisor prior to withdrawing from classes and to contact the Office of Financial Aid and Student Accounts and Cashier for questions regarding fee liability or financial aid awards.

Academic departments may limit the total number of course withdrawals that a student may have within a program and/or the number of times a student may withdraw from an individual course. Please contact the academic department for more information.

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. Individual class withdrawals may not be processed after the published deadline(s) in the Academic Calendar (p. 5). 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 (p. 5) for specific dates related to the summer semester and parts of term.

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. 41).

Withdrawal from all courses does not prevent registration for future terms. Students are not required to apply for readmission unless they have not enrolled at UWF for three or more consecutive academic semesters (including summers). Students are encouraged to consult with their advisors before withdrawing from classes and to contact the Office of Financial Aid and 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 (p. 5) for specific dates related to the summer semester and parts of term.

Faculty Senate 3/2017

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 and withdrawal deadlines, as noted on the Academic Calendar (p. 5). Grades of ‘W’ will be awarded, if approved. Regarding tuition, students may also elect to follow the Fee Appeals 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, the student is required to complete and submit the Medical Withdrawal Form 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 an 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 or the Office of the Registrar.

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 withdrawal 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 numbers 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 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.

- 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, 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.

Faculty Senate 4/14/2017

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. 26) 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:
Online Campus

The Global Online Staff 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. As the central agent for online learning at UWF, Global Online transforms lives by working with faculty and the University to make a high-quality UWF education available to anyone, anywhere, anytime through the innovative use of technology.

Online Campus Programs

The UWF Online Campus offers over 600 online course sections each semester that lead to over 50 different undergraduate and graduate degrees as well as credit-earning certificate 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 or certificate programs provides the opportunity to apply for an out-of-state tuition waiver that substantially reduces tuition for non-Florida residents.

Center for Global Online Learning and Development

The Center for Global Online Learning and Development provides faculty support through consultations, professional development, high quality course reviews, accessibility assistance, video production, and multimedia support. The Global Online Instructional Designers are available to assist faculty with all online teaching needs and provides faculty with essential training and resources as well current effective online teaching strategies and assistance with digital technology tools at UWF. Learn more at the Center for Global Online Learning and Development.
Public Service and Research Centers

At 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 Administration and Engagement 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. A list of centers and institutes is located at uwf.edu/centers.

For additional information, contact the Office of Research Administration and Engagement 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. Student Involvement 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 Student Involvement. Student Involvement maintains an online service called ArgoPulse (https://uwf.edu/academic-engagement-and-student-affairs/departments/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 Student Involvement website at uwf.edu/involvement 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.

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 Title IX Policy) and the University Policy Prohibiting Discrimination, Harassment and Retaliation (P-13.06-06/16).

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 18  
(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 page.

Bookstore – The Official UWF Bookstore
- Official UWF Bookstore
- Online Ordering
- Rental Books
- Bookstore Deferment Program
Refer to information on the UWF Bookstore page.

UWF Libraries
Library Information and Campus Locations

Career Services
- Internships and Cooperative Education
- Career Education

Child Care
Refer to information on the Educational Research Center for Child Development (ERCCD) page.

Copy Services
Refer to information on the Copy Services page.

Counseling and Wellness
Counseling and Wellness Services has two areas:
- Counseling and Psychological Services
- Wellness Services

Dining Services
Refer to information on the Dining Services page.

Equity & Diversity
- Academic Center for Excellence
- TRiO/Student Support Services Program
Refer to information on the Equity & Diversity page.

Center for Academic Success
Refer to information on the Center for Academic Success page.

TRiO Student Support Services
Refer to information on the TRiO Student Support Services page.

Health Services
Refer to information on the Student Health Services page.

Housing and Residence Life
Refer to information on the Housing and Residence Life page.

ID/Nautilus Card
Refer to information on the Nautilus Card page.

Information Technology Services
- ArgoApps Virtual Lab
- ArgoNet Accounts
- Campus Computer Labs
- Computer Security
- eLearning
- ITS Help Desk
- MyUWF
- UWF Email
Refer to information on the Information Technology Services (ITS) page.

Parking and Transportation Services
- Parking on Campus
- UWF Trolley
- ECAT Bus Service
Refer to information on the Parking and Transportation page.

Postal Services
Refer to information on the UWF Postal Services page.

Recreation and Sports Services
- Fitness Center
- Intramural Sports
- Sports Clubs
- Outdoor Adventures
- Aquatic Center
- Recreational Equipment
Refer to information on the Recreation and Wellness page.

Skills Improvement Centers
- Mathematics and Statistics Tutoring Lab
- Writing Lab

University Testing Services
Refer to information on the University Testing Services page.

Vending Services/Beverage Rights
Refer to information on the Vending Services page.
Graduate Degrees and Areas of Specialization

For information on UNDERGRADUATE DEGREES see the Undergraduate Catalog.

Master’s Degrees

<table>
<thead>
<tr>
<th>Degree</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.A.</td>
<td>Master of Arts</td>
</tr>
<tr>
<td>M.Acc.</td>
<td>Master of Accountancy</td>
</tr>
<tr>
<td>M.B.A.</td>
<td>Master Business Administration</td>
</tr>
<tr>
<td>M.Ed.</td>
<td>Master of Education</td>
</tr>
<tr>
<td>M.H.A.</td>
<td>Master 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>
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<tbody>
<tr>
<td>Ed.S.</td>
<td>Specialist in Education</td>
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</tbody>
</table>

Doctoral Degree

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

Master’s Degrees

- Accounting, M.Acc. (p. 73)
  - Professional Accountancy
  - Professional Taxation
- Administration, M.S.A. (p. 75)
  - Public Administration
- Anthropology, M.A. (p. 77)
  - Anthropology
  - Historical Archaeology
- Athletic Training, M.S. (p. 79)
- Biology, M.S. (p. 81)
  - Biology (thesis)
  - Biology (non-thesis)
- Business Administration, M.B.A. (p. 83)
  - MBA General
  - Accounting
  - Aviation Economics
  - Business Analytics
  - Entrepreneurship
  - Hospitality and Tourism Leadership
  - Human Resources Management
- Information Security Management
- Supply Chain Logistics Management
- College Student Affairs Administration, M.Ed. (p. 88)
- Communication, Strategic Communication and Leadership, M.A. (p. 135)
- Computer Science, M.S. (p. 89)
- Criminal Justice, M.S. (p. 90)
  - Criminal Justice ABM
- Curriculum & Instruction, M.Ed. (p. 91)
  - Elementary Education Comprehensive
  - Middle Level Education Comprehensive
  - Secondary Education Comprehensive
- Cybersecurity, M.S. (p. 93)
- Data Science, M.S. (p. 94)
- Educational Leadership, M.Ed. (p. 96)
- Engineering, M.S. (p. 98)
- English, M.A. (p. 99)
  - Creative Writing
  - Literature
- Environmental Science, M.S. (p. 101)
  - Environmental Science (thesis)
  - Environmental Science (non-thesis)
  - Environmental Science ABMs
- Exceptional Student Education, M.A. (p. 102)
  - Applied Behavioral Analysis
  - Special and Alternative Education
- Geographic Information Science (GIS) Administration, M.S. (p. 105)
- Health, Leisure & Exercise Science, M.S. (p. 107)
  - Exercise Science
  - Physical Education and Human Performance
- Health Promotion and Worksite Wellness, M.S. (p. 109)
- Healthcare Administration, M.H.A. (p. 110)
- History, M.A. (p. 111)
  - Early American Studies
  - History
  - Public History
- Information Technology, M.S. (p. 114)
- Instructional Design and Technology, M.Ed. (p. 117)
  - Instructional Design and Technology
  - Technology Leadership
- International Affairs, M.A. (p. 119)
- Mathematical Sciences, M.S. (p. 120)
- Nursing, M.S.N.
  - Family Nurse Practitioner (p. 104)
  - Nursing Education (p. 122)
  - Nurse Executive (p. 122)
  - Nursing ABMs
- Political Science, M.A. (p. 123)
- Psychology, M.A. (p. 124)
  - Applied Experimental Psychology
  - Counseling Psychology - Licensed Mental Health Counselor (LMHC)
  - Industrial-Organizational Psychology
• Public Health, M.P.H. (p. 128)
  • Generalist M.P.H.
  • Global Health (GHLH)
  • Health Promotion, Education and Behavior (HPEB)
• Reading Education, M.Ed. (p. 132)
• Social Work, M.S.W. (p. 133)
  • Traditional M.S.W.
  • Advanced Standing M.S.W.
*Accelerated Bachelor to Master's program option available. See Undergraduate Catalog for details.

Specialist Degree
• Curriculum & Instruction, Ed.S. (p. 66)

Doctoral Degrees
• Curriculum & Instruction, Ed.D. (p. 68)
  • Administration and Leadership Studies
  • Curriculum and Assessment
  • Health and Physical Activity
  • Higher Education
• Instructional Design and Technology, Ed.D. (p. 115)
• Intelligent Systems and Robotics, Ph.D. (p. 71)

Degrees Available at the Emerald Coast Instructional Site
Also refer to programs offered through the UWF Online Campus (p. 62)

Master’s Degrees
• Business Administration, M.B.A. (p. 83)
  • MBA General
  • Accounting
  • Entrepreneurship
  • Supply Chain Logistics Management
• Social Work, M.S.W. (p. 133)
  • Traditional M.S.W.

Degree Programs Available at the UWF Online Campus

Master’s Degrees
• Accounting, M.Acc. (p. 73)
  • Professional Accountancy
  • Professional Taxation
• Administration, M.S.A (p. 75)
  • Public Administration
• Business Administration, M.B.A. (p. 83)
  • MBA General
  • Accounting
  • Aviation Economics
  • Business Analytics
  • Entrepreneurship
  • Human Resources Management
  • Information Security Management
  • Supply Chain Logistics Management
• Computer Science, M.S. (p. 89)

• Cybersecurity, M.S. (p. 93)
• Curriculum & Instruction, M.Ed. (p. 91)
  • Elementary Education Comprehensive
  • Middle Level Education Comprehensive
  • Secondary Education Comprehensive
• Data Science, M.S. (p. 94)
• Educational Leadership, M.Ed. (p. 96)
  • Educational Leadership Certification
• English, M.A. (p. 99)
  • Creative Writing
  • Literature
• Environmental Science, M.S. (p. 101)
  • Environmental Science (non-thesis)
• Exceptional Student Education, M.A. (p. 102)
  • Applied Behavioral Analysis
  • Special and Alternative Education
• Geographic Information Science (GIS) Administration, M.S. (p. 105)
• Healthcare Administration, M.H.A. (p. 110)
• Information Technology, M.S. (p. 114)
• Instructional Design and Technology, M.Ed. (p. 117)
  • Instructional Design and Technology
  • Technology Leadership
• International Affairs, M.A. (p. 119)
• Mathematical Sciences, M.S. (p. 120)
• Nursing, M.S.N.
  • Family Nurse Practitioner (p. 104)
  • Nursing Education (p. 122)
  • Nurse Executive (p. 122)
• Political Science, M.A. (p. 123)
• Public Health, M.P.H. (p. 128)
  • Generalist M.P.H.
  • Global Health (GHLH)
  • Health Education, Promotion and Behavior (HPEB)
• Reading Education, M.Ed. (p. 132)
• Social Work, M.S.W. (p. 133)
  • Traditional M.S.W.

Educational Specialist Degree
• Curriculum & Instruction, Ed.S. (p. 66)

Doctoral Degrees
• Curriculum & Instruction, Ed.D. (p. 68)
  • Curriculum and Assessment
  • Instructional Design and Technology, Ed.D. (p. 115)
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).

Graduate Certificates offered at UWF

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

- **Accounting** - Professional Accountancy (p. 74)
- **Acquisition and Contract Administration** (p. 75)
- **Applied Behavior Analysis (ABA) - BCaBA Course Sequence** (p. 64)*
- **Applied Behavior Analysis (ABA) - BCBA Course Sequence** (p. 64)*
- **Business Analytics** (p. 86)
- **Business Foundation** (p. 86s)
- **Geographic Information Science (GIS)** (p. 105)
- **Entrepreneurship** (p. 85)
- **Health Communications Leadership** (p. 135)
- **Health Informatics** (p. 65)
- **Health Psychology** (p. 126)
- **Historic Preservation** (p. 112)
- **Hospitality and Tourism Leadership** (p. 86)
- **Human Performance Technology** (p. 118)
- **Human Resources Management** (p. 86)
- **Information Security Management** (p. 87)
- **Leadership in Public Service and Nonprofit Administration** (p. 75)
- **Public Health - Emergency Management and Infection Control** (p. 130)
- **Public Health - Environmental and Occupational Health** (p. 131)
- **Supply Chain Logistics Management** (p. 87)

*Course Sequences do not result in a certificate awarded by UWF

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:

- **Accounting - Professional Accountancy** (p. 74)
- **Acquisition and Contract Administration** (p. 75)
- **Applied Behavior Analysis (ABA) - BCaBA Course Sequence** (p. 64)*
- **Applied Behavior Analysis (ABA) - BCBA Course Sequence** (p. 64)*
- **Business Analytics** (p. 85)
- **Business Foundations** (p. 86)
- **Entrepreneurship** (p. 85)
- **Geographic Information Science (GIS)** (p. 105)
- **Health Informatics** (p. 65)
- **Human Performance Technology** (p. 118)
- **Human Resources Management** (p. 86)
- **Information Security Management** (p. 87)
- **Leadership in Public Service and Nonprofit Administration** (p. 75)
- **Public Health - Emergency Management and Infection Control** (p. 130)
- **Public Health - Environmental and Occupational Health** (p. 131)
- **Supply Chain Logistics Management** (p. 87)
Graduate Applied Behavior Analysis (ABA)

Graduate BCaBA Online Course Sequence

Learn to understand behavior with our online BCaBA (Board Certified Assistant Behavior Analyst) course sequence.

EDF 6225 Foundations of Applied Behavior Analysis 3
EDF 6226 Behavioral Assessments 3
EDF 6223 Applied Behavior Analysis and System Support 3
EDF 6437 Measurement and Single Case Design 3
EDF 6557 Ethics in Applied Behavior Analysis 3
EDF 6224 Supervision and Management Fluency 3

Total Hours 18

- Take our online BCaBA courses as a standalone sequence if you already have an undergraduate degree.
- Read about the BCaBA Eligibility Standards on the BACB website.
- Opportunity for coursework and supervision hours to later apply toward BCBA certification and the optional MA degree in ESE

Funding Options for Non-Degree Seeking Students

- Non-degree seeking students may apply for continuing education loans to pay for courses. Two examples are listed below:
  - Sallie Mae
  - Wells Fargo
  - When applying for a continuing education loan, make sure to use this school code for UWF continuing education: 00395598
  - Please contact our office via phone or email once your loan is approved, and our team members will assist with registration
- Learn about UWF’s payment plan option and short term loans
- Non-degree seeking students are not eligible for Federal Financial Aid.

Credits Earned as a Non-Degree Seeking Student may be used in a Masters Program at UWF!

Students may take a maximum of 12 semester hours as a non-degree student and apply those credits to a master’s degree program at UWF. That is, students may begin the ABA coursework as a non-degree student (p. 45) and apply for admission to the master’s degree program for a later semester.

- For details regarding this policy, please refer to the Graduate Catalog (p. 45).
- All ABA courses may be used in the MA in Exceptional Student Education degree.
- It is each student’s responsibility to read and understand the UWF Admission Requirements.

Graduate Non-Degree Seeking BCBA Online Course Sequence

Students who already possess a Master’s degree or who are enrolled in a Masters program at a different institution may enroll in our course ABAI-verified course sequence to meet the requirements for BCBA (Board Certified Behavior Analyst) certification.

EDF 6225 Foundations of Applied Behavior Analysis 3
EDF 6226 Behavioral Assessments 3
EDF 6223 Applied Behavior Analysis and System Support 3
EDF 6437 Measurement and Single Case Design 3
EDF 6557 Ethics in Applied Behavior Analysis 3
EDF 6224 Supervision and Management Fluency 3
EDF 6222 Concepts of Applied Behavior Analysis 3

Funding Options for Non-Degree Seeking Students

- Non-degree seeking students may apply for continuing education loans to pay for courses. Two examples are listed below:
  - Sallie Mae
  - Wells Fargo
  - When applying for a continuing education loan, make sure to use this school code for UWF continuing education: 00395598
  - Please contact our office via phone or email once your loan is approved, and our team members will assist with registration
- Learn about UWF’s payment plan option and short term loans
- Non-degree seeking students are not eligible for Federal Financial Aid.

Credits Earned as a Non-Degree Seeking Student at UWF may be used in a Masters Program!

Students may take a maximum of 12 semester hours as a non-degree student at UWF and apply those credits to a master’s degree program at UWF. That is, students may begin the ABA coursework as a non-degree student (p. 45) and apply for admission to the MA in Exceptional Student Education with specialization in ABA degree program for a later semester.

- For details regarding this policy, please refer to the Graduate Catalog (p. 45).
- All ABA courses may be used in the MA in Exceptional Student Education (with specialization in ABA) degree.
- It is each student’s responsibility to read and understand the UWF Admission Requirements.
Health Informatics Graduate Certificate

Department: Health Sciences and Administration

Method of Instruction: Online

Semester Hours: 12

Health Informatics can be broadly defined as the use of computer technology to support clinical practice, administration, education, and research. The products developed in this field, ‘information resources’, involve the hardware and software that facilitates the storage, retrieval, and optimal use of medical information for problem-solving and decision-making.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6197</td>
<td>Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6752</td>
<td>Quantitative Foundations and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>HSA 5198</td>
<td>Electronic Clinical Record Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Choose one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6015</td>
<td>Epidemiological Research Designs and Methods</td>
<td></td>
</tr>
<tr>
<td>PHC 6196</td>
<td>Applied Data Analysis in Public Health</td>
<td></td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
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</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td></td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Bioinformatics and Data Science</td>
<td></td>
</tr>
<tr>
<td>NGR 6734</td>
<td>Project Development and Management for Healthcare Professionals</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours: 12
Curriculum & Instruction, Ed.S.

The Ed.S. program at UWF is a 30 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 30 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. Three of the core courses, EDF 7404 Quantitative Methods and Educational Statistics I, EDF 7475 Qualitative Research I - Methods, and EDF 7790 Foundations of Doctoral Research and Writing, 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 description, and show how these will impact your career trajectory.
- Note: Your responses to the three prompts 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 will be waived for the following:

Applicants must have a master’s degree with a GPA of 3.75 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 to ensure that all application materials are submitted in a timely manner. There will be three admission cycles per year: January, May, and August.

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 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 12 semester hour professional core and complete 15 semester hours of area of focus courses. The areas of focus are as follows: Administration and Leadership Studies, Vulnerable and Marginalized Populations Groups Specialization, and Curriculum & Assessment. 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, areas of focus, 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 (30 sh)

Students will complete 30 semester hours made up of Professional Core (12sh), Electives (15sh), and Capstone/Competency Portfolio (3sh).

Professional Core (12 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>EDF 6481</td>
<td>Educational Research</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
- Vulnerable and Marginalized Groups
- Curriculum & Assessment

Capstone (3 sh)
Students will complete a three hour capstone experience by taking the capstone course or completing a Competency Portfolio listed below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 7912</td>
<td>Educational Specialist Degree Capstone Course</td>
<td>3</td>
</tr>
</tbody>
</table>
Curriculum & Instruction, Ed.D.

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, Higher Education, Curriculum and Assessment, Vulnerable and Marginalized Groups, and Health and Physical Activity.

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 45 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 EDF 8931 focusing on an extensive background paper during the 33-36 credit hours; EDF 8935, which focuses on the pre-proposal and oral defense; EDF 8932, which covers the comprehensive examination and oral defense; and EDF 8933, which covers the dissertation proposal and oral defense. After these structured and guided processes for the dissertation, students will have a minimum of six more credits to complete the fieldwork, analysis and write their dissertation. At this point students, in consultation with their Doctoral Dissertation Committee, take a minimum of 1 semester hour of dissertation credit depending on their progress in the field work, analysis and writing until they obtain the minimum of the required 18 credits. 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 63 semester hours (sh) of coursework, including 27 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.

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, Ed.D Program Director, and CEPS Dean.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section 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 3.75 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 explanatory context.
  - Clearly articulate how your skill set and experiences align with the description 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 will be waived for the following:
  - Applicants must have a master’s degree with a GPA of 3.75 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. 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 the APA style. 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 63 semester hours including all requirements listed in the Graduation and General Degree Requirements (p.) section of this catalog along with the Professional Core, Specialization, and Dissertation Requirements listed below:

**Professional Core Requirements (27 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>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 7475</td>
<td>Qualitative Research I - Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7489</td>
<td>Mixed Methods Research Design</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 8289</td>
<td>Curriculum Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

- EDF 8498 Improvement Science and Design Decision Making in Education (DIP students should choose this course.)
- EDF 8749 Psychological and Social Theories of Education

Choose one Advanced Quantitative or Qualitative Methods course:

- EDF 7407 Quantitative Methods and Educational Statistics II
- EDF 7468 Advanced Program Development and Evaluation
- EDF 7478 Qualitative Research II-Design, Analysis, and Presentation
- EDF 8449 Policy Analysis and Education
- EDF 8936 Action Research Methods

Choose one Critical Issues Elective:

- EDF 7638 Social Change and Reform
- EDG 7241 Social Justice, Inequalities, and Power: A Global Overview
- EME 8608 IDT Foundations, Issues and Trends (Optional Elective)

**Total Hours** 27

*Optional Elective:* Students who are interested in an internship or study abroad may register for EDF 8940 Seminar: Supervised Doctoral Internship

**Specialization Area (18 sh)**

**Dissertation Requirement (18 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 8931</td>
<td>Doctoral Seminar: Background Paper</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8932</td>
<td>Doctoral Seminar: Comprehensive Exam</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8935</td>
<td>Doctoral Seminar: Dissertation Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8933</td>
<td>Doctoral Seminar: Proposal</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one:

- EDF 8980 Dissertation
- EDG 8980 Dissertation
- EME 8980 Dissertation

**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</th>
<th>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 following courses are required in this specialization:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 7354</td>
<td>Test, Measurement, &amp; Data Literacy</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7573</td>
<td>Contemporary Curriculum Issues and Theories</td>
<td>3</td>
</tr>
<tr>
<td>EDG 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>EDG 8668</td>
<td>Curriculum and Instructional Strategies for Adult Learners</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Hours** 18

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

**Higher Education Specialization**

The specialization in higher education will prepare students for leadership in community colleges and four-year 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 Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDH 8505</td>
<td>Finance in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 8405</td>
<td>Law and Policy in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 8635</td>
<td>Organizational Leadership and Change in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 8225</td>
<td>Curriculum and Instruction in the Context of Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDH 8648</td>
<td>Institutional Research and Outcomes Assessment in Higher Education</td>
<td>3</td>
</tr>
<tr>
<td>EDF 8937</td>
<td>Research Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>
Intelligent Systems & Robotics, Ph.D.

The goal of the Ph.D. program in Intelligent Systems and Robotics is to educate the next generation of educators and researchers in the field. Students will learn to develop leading-edge software and hardware technology to combine human and machine elements together in ways that exploit their respective strengths and mitigate their respective weaknesses. After laying a groundwork common to all, the Ph.D. in Intelligent Systems and Robotics program will provide students with individualized curricula tailored to their interests. The program is comprised of foundational courses in Artificial Intelligence (AI) that address topics including knowledge representation and reasoning, machine learning, computational methods in AI, basic hardware/software interaction, and research methods. After completing the core, students select advanced courses based upon their research interests. Beyond course work, the program’s cornerstone will be hands-on research in robotics and AI and will leverage the proximity and world-class talent at UWF and IHMC.

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 the Graduate Record Exam (GRE). Attainment at the 70% percentile is preferred.
• Hold a master's degree in Computer Science, Mathematics, Engineering, Physics or a similar technical degree. Bachelor’s candidates with strong relevant industrial experience will be considered.
  • Incoming students who do not hold a master's degree in an approved area will be required to complete a minimum of 27 sh of content-based coursework (9 hours of post-bachelor courses, 9 sh of doctoral core courses, and 9 sh of doctoral electives) in addition to the required 24 sh of dissertation. Students may petition to satisfy preparatory coursework by proficiency examination. Any coursework taken outside the program must be approved by the student’s advisor and program director.
  • Master’s or bachelor’s institutional GPA - minimum of a 3.0 GPA; however, successful applicants will typically have GPAs well above the minimum.
  • Submission of a curriculum vitae (CV)
  • Submission of a personal statement in which you address the following points (and others you deem relevant):
    • Reason you are interested in this program
    • Specific research area(s) in which you are interested
    • Any work you have completed within your area of interest, including courses taken, previously published representative paper(s), summary of all thesis work, research/project reports, presentations, demonstrations, etc.
    • Name(s) of faculty (at UWF and IHMC) with whom you are interested in working
    • Whether you will be self-supported or in need of an assistantship
    • Your plans after completing your Ph.D.

• Submission of a minimum of three (3) letters of recommendation (LOR) from academic and professional recommenders attesting to the applicant’s graduate studies potential.
  • At least one (1) of these LORs must be from an academic reference.
  • Please advise all recommenders of the following requirements: All LORs must be on official letterhead of the recommender’s institution or organization and must contain the recommender’s official written signature.
  • Participation in an oral interview if deemed necessary by the admission committee
  • Those without a background in algorithm analysis, data structures and advanced computer programming skills will require additional preparatory work.
  • Applicants from countries where English is not the official language must also demonstrate proficiency in English. The Admissions Committee reserves the right to conduct telephone interviews with these applicants.
  • For a complete list of admission requirements for international applicants, please visit the International Graduate Admission section of the catalog.

Program Requirements

GPA Requirements

• Students are required to complete all courses with a grade of ‘B’ or better and maintain an overall GPA of 3.25 or better.

Advancement to Candidacy

• Completion of 18 or 30 semester hours for candidates entering the program with an approved master’s or bachelor’s degree, respectively.
• Passing a comprehensive qualifying exam with written and oral components.

Dissertation

• All doctoral candidates are required to work with a faculty mentor to conduct, document, and publicly defend a piece of original research.

All coursework must be completed with a grade of ‘B’ or better with a minimum overall GPA of 3.25.

Core Courses (9 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEE 6772</td>
<td>Foundations of Intelligent Systems</td>
<td>3</td>
</tr>
<tr>
<td>ISC 6529</td>
<td>Research Methods in Intelligent Systems</td>
<td>3</td>
</tr>
<tr>
<td>ISC 6529</td>
<td>Research Methods in Intelligent Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEE 6730</td>
<td>Special Topics in Intelligent Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives (9 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 6805</td>
<td>Foundations for Robotics</td>
<td>3</td>
</tr>
<tr>
<td>CAP 6671</td>
<td>Intelligent Agents</td>
<td>3</td>
</tr>
<tr>
<td>CAP 6579</td>
<td>Advanced Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>EEL 6617</td>
<td>Multivariable Linear Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>EEE 6734</td>
<td>Bipedal Walking Robots</td>
<td>3</td>
</tr>
<tr>
<td>EEL 6692</td>
<td>Wearable Robotics</td>
<td>3</td>
</tr>
<tr>
<td>CAP 6667</td>
<td>Advanced Topics in Intelligent Systems &amp;</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Robotics</td>
<td></td>
</tr>
<tr>
<td>ISC 7248</td>
<td>Deep Reinforcement Learning</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
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</tr>
<tr>
<td>CAP 7640</td>
<td>Topics in Natural Language Processing</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5668</td>
<td>Human Agent/Robot Teamwork</td>
<td>3</td>
</tr>
</tbody>
</table>

**Dissertation (24 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISC 8980</td>
<td>Dissertation</td>
<td>1-24</td>
</tr>
</tbody>
</table>
Accounting, M.Acc.

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 institutional GPA
- Submission of letter of intent
- Submission of two academic/professional letters of recommendation

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

Admission test score waiver eligibility for applicants who hold an earned bachelor’s degree and meet any of the following criteria:

- GPA of 3.25 or higher
- GPA of 3.0 or higher and at least three (3) years relevant work experience in an organization (for-profit or non-for-profit) that would normally require an undergraduate degree to obtain or experience at running an entrepreneurial business
- GPA of 3.0 in the UWF MAcc prerequisits and foundation proficiency courses before taking MAcc Program Courses.

- Students who earn less than a 3.0 must submit GMAT or GRE scores which meet the admission requirements in order to take the MAcc program courses.
- Passed all 4 parts of the CPA examination as documented by the National Association of State Board of Accountancy (NASBA)
- Earned a business-related master's degree

Application and Counseling

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

Degree Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6308</td>
<td>Advanced Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6805</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6856</td>
<td>Advanced Auditing</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5831</td>
<td>Commercial Law</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6406</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>TAX 6065</td>
<td>Tax Data Bases, Research and Procedure</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Program Electives</td>
<td>12</td>
</tr>
<tr>
<td>5000/6000</td>
<td>Advisor-approved ACG/TAX electives totaling 9 hours. Must fulfill Corporate Income Tax and Governmental &amp; Non-Profit Accounting requirements at undergraduate or graduate level.</td>
<td></td>
</tr>
<tr>
<td>5000/6000</td>
<td>Advisor-approved COB elective</td>
<td></td>
</tr>
</tbody>
</table>
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.

### Graduate Certificate in Professional Accountancy

**Department:** Accounting & Finance

**Semester Hours:** 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 6308</td>
<td>Advanced Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6805</td>
<td>Seminar in Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6856</td>
<td>Advanced Auditing</td>
<td>3</td>
</tr>
<tr>
<td>BUL 5831</td>
<td>Commercial Law</td>
<td>3</td>
</tr>
</tbody>
</table>

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

**Total Hours** 12

The Graduate Certificate in Professional Accountancy is available online.

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

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

Candidates pursuing the Graduate Certificate in Professional Accountancy are required to complete all Certificate courses with a grade of ‘C’ or better, and maintain an overall GPA of 3.0 or better.

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

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

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 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 institutional 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 institutional 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>Public Policy Analysis</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)

<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

<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>PUP 5045</td>
<td>Public Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

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.

Certificate to complete the degree requirements.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 5146</td>
<td>The Nonprofit Profession</td>
<td>3</td>
</tr>
<tr>
<td>PAD 5434</td>
<td>Leadership</td>
<td>3</td>
</tr>
<tr>
<td>PAD 6335</td>
<td>Strategic Management for Public Service</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>
Anthropology, M.A.

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 institutional 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 is acceptable. The core courses must include Cultural Anthropology, Biological Anthropology, Archaeology, and Theory.

Degree Requirements

Anthropology Core

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6110</td>
<td>Advanced Method and Theory in Archaeology Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6286</td>
<td>Contemporary Cultural Anthropological Theory</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6583</td>
<td>Evolutionary Theory in Biological Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6002</td>
<td>Proseminar in Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANG 6093</td>
<td>Research Design in Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 15

Required Subfield Courses (9 sh)

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

Total Hours: 9

Electives

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

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
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>
<tr>
<td>Total Hours</td>
<td></td>
<td>11-19</td>
</tr>
</tbody>
</table>

* 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>
<tr>
<td>Total Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

History

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

Electives

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

Research

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

* Course offered 1-6 sh per semester; minimum of 3 sh required
Athletic Training, M.S.

The Commission of Accreditation for Athletic Training Education (CAATE) recently announced that the professional degree for athletic training will be at the master’s level and that, effective fall 2022, baccalaureate programs may not admit, enroll, or matriculate students into the athletic training program. UWF plans to transition to a master’s degree in the summer of 2021.

The Athletic Training (AT) Program is designed to prepare students for a professional entry-level healthcare career in the athletic training profession. This program, specifically designed to meet national and state licensure requirements, is a two-year master’s level program (54 credit hours) that combine classroom and clinical education teaching/learning strategies. Students completing this MS degree program will be eligible to sit for the Board of Certification (BOC) examination.

The Master of Science in Athletic Training (MSAT) degree is offered through the UWF Department of Movement Sciences and Health (MSH). The professional preparation courses in this program encompass the athletic training professional domains. The overall objectives of the Athletic Training Program are to instruct, evaluate, and provide hands-on experience for students in the following domains:

1. Injury/Illness Prevention and Wellness Promotion - Students identify injury, illness, and risk factors associated with participation in sport/physical activity and implement all components of a comprehensive wellness promotion plan and injury prevention program.

2. Examination, Assessment, and Diagnosis - Students conduct a thorough initial clinical evaluation of injuries and illnesses commonly sustained by the physically active individual and formulate an initial diagnosis of the injury and/or illness for the primary purposes of administering care or making appropriate referrals to physicians for further diagnosis and medical treatment.

3. Immediate and Emergency Care - Students provide appropriate first aid and emergency care for acute injuries according to accepted standards and procedures, including effective communication for appropriate and efficient referral, evaluation, diagnosis, and follow up care.

4. Therapeutic Intervention – Students plan, design, and implement a comprehensive treatment, rehabilitation and/or reconditioning protocols that make use of appropriate rehabilitative equipment, manual therapy techniques, or therapeutic modalities for injuries and illnesses.

5. Healthcare Administration & Professional Responsibilities - Students plan, coordinate and supervise the administrative components of an athletic training program, comply with the most current Board of Certification (BOC) practice standards and state/federal regulations, and develop a commitment to life-long learning and evidence-based clinical practice.

AT students are educated in cognitive and psychomotor skills related to recognition, treatment, and rehabilitation of injuries and illnesses involving the physically active as well as risk management, health care administration, pharmacology, diagnostic imaging, and medical ethics and legal issues. In addition to the didactic courses, students are required to complete a minimum number of clinical education hours in a variety of settings.

Students who want to become certified athletic trainers must earn a degree from an accredited athletic training program accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Students will graduate with a Master of Science in Athletic Training and be eligible to sit for the Board of Certification examination.

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:

- Bachelor’s degree from an accredited college or university
- A minimum of 3.00 cumulative grade point average (GPA) and a grade of C or better on all prerequisite courses. The following prerequisite coursework (‘C’ grade or higher) is required for admission:
  - Anatomy/Physiology with lab - 2 courses
  - Biology with lab - 1 course
  - Chemistry - 1 course
  - Exercise Physiology - 1 course
  - Nutrition - 1 course
  - Psychology - 1 course
  - Statistics - 1 course
- Preferred course work:
  - Principles of Athletic Training or equivalent - 1 course
  - Functional Kinesiology - 1 course
- 50 hours of observation under a licensed and certified athletic trainer
- Two (2) letters of recommendation - one letter should be from a practicing athletic trainer
- A resume/curriculum vitae
- Letter of intent per the department website

Degree Requirements

MASTER OF SCIENCE IN ATHLETIC TRAINING

Required Courses: 54 credits

<table>
<thead>
<tr>
<th>Semester I (Summer B)</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 5105C Advanced Principles in Athletic Training</td>
<td></td>
</tr>
<tr>
<td>ATR 5120C Anatomical Basis of Clinical Practice in Sports Medicine</td>
<td></td>
</tr>
<tr>
<td>ATR 5115C Management of Medical Emergencies in AT</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester II (Fall)</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 5217C Orthopedic Assessment I</td>
<td></td>
</tr>
<tr>
<td>ATR 6305C Therapeutic Modalities in Athletic Training</td>
<td></td>
</tr>
<tr>
<td>ATR 5815C Athletic Training Clinical Experience I</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester III (Spring)</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 5218C Orthopedic Assessment II</td>
<td></td>
</tr>
<tr>
<td>ATR 6316C Rehabilitation Techniques in Athletic Training</td>
<td></td>
</tr>
<tr>
<td>ATR 5825C Athletic Training Clinical Experience II</td>
<td></td>
</tr>
<tr>
<td>ATR 6620 Research in Athletic Training I</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester IV (Summer)</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATR 5105C Advanced Principles in Athletic Training</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>ATR 6425</td>
<td>Pharmacology and Diagnostic Imaging in Athletic Training</td>
</tr>
<tr>
<td>ATR 5435</td>
<td>General Medical Conditions in the Athlete</td>
</tr>
<tr>
<td>ATR 6835</td>
<td>Athletic Training Clinical Experience III</td>
</tr>
<tr>
<td>ATR 6621</td>
<td>Research in Athletic Training II</td>
</tr>
<tr>
<td>ATR 6845</td>
<td>Athletic Training Clinical Experience IV</td>
</tr>
<tr>
<td>ATR 6517</td>
<td>Administration and Professionalism in Athletic Training</td>
</tr>
</tbody>
</table>

Total Hours | 54
Biology, M.S.

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:

- 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 a curriculum vitae
- 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 30 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 3
  - PCB 5924 Biology Seminar 1
  - PCB 6074 Experimental Design in Biology 3
  - 5000/6000 level advisor approved electives 16
  - Total Hours 30
- 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.
- A maximum of 6 credit hours of Directed Study (BSC5905, BSC6905, PCB5905, PCB6905) may be taken towards the elective hour requirement.
- 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.

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.
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 **30 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>
</tbody>
</table>

Department approved 5000/6000 level electives. A minimum of 15 sh must be at the 6000-level.*

| Total Hours | 30 |

* A total of 6 credit hours from up to two courses of directed independent study (DIS) may be applied to the elective hours

The student must complete a presentation with a graduate course instructor (typically as part of a course), which will include a written and oral summary of a paper from the original literature. The presentation and summary of the paper will be used as the assessment of the program.
**Business Administration, M.B.A.**

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 nine areas of emphasis:

- M.B.A. General
- M.B.A. with Accounting emphasis
- M.B.A with Aviation Economics 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 and Aviation Economics areas 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 M.B.A. 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 M.B.A. Core courses require projects that are included in the student’s portfolio.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 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 institutional 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 (required from applicants with less than 3.25 GPA from the bachelor's degree granting institution; letters of recommendation are optional for applicants with a 3.25 or higher GPA)
- a record of appropriate employment at increasing levels of responsibility via résumé
- other qualifications that illuminate future M.B.A. potential

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

* The graduate admission test will be waived for M.B.A. 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).
  - Applicants must have completed the Graduate Business Foundations Certificate (GBFC) or will complete the GBFC with an institutional GPA of 3.25 or higher before taking M.B.A. program courses. Students who earn a 3.24 or below, or do not complete the certificate must submit GMAT or GRE scores which meet the admission requirements in order to take M.B.A. program courses.

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 M.B.A. 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 Code</th>
<th>Course Name</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>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>ECO 2013</td>
<td>Principles of Economics Macro</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2023</td>
<td>Principles of Economics Micro</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>
</tbody>
</table>

Total Hours: 33

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

**M.B.A. Core Courses**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</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>
<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</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 27

**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 Code</th>
<th>Course Name</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>
</tbody>
</table>

Total Hours: 6

**Accounting Area of Emphasis Required Courses**

All Accounting Area of Emphasis courses are offered exclusively online.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</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.

Total Hours: 9

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 Code</th>
<th>Course Name</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>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</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>

**Aviation Economics Area of Emphasis Required Courses**

All Aviation Economics Area of Emphasis courses are offered exclusively online.

- TRA 5206 Logistics Systems and Analytics 3
- ECP 6045 General Aviation Economics and Finance 3
- ECP 6046 Commercial Aviation Economics and Finance 3

Total Hours 9

For the Aviation Economics 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
- or MAN 3504 Operations Management

**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
- ISM 5328 Cybersecurity Risk Management
- ISM 5222 Business Data Communication
- ISM 6326 Information Systems Auditing and Control

**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
- or MAN 3504 Operations Management
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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 5404</td>
<td>Business Intelligence Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISM 5208</td>
<td>Business Data Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6136</td>
<td>Big Data Mining: A Managerial Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6137</td>
<td>Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

The Graduate Certificate in Business Analytics is available online.

Business Administration, M.B.A.

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 Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 5870</td>
<td>MBA Foundations: e-Business Systems</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>1.5</td>
</tr>
<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>
<tr>
<td>GEB 5879</td>
<td>MBA Foundations: Business Analytics</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

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

Hospitality and Tourism Leadership

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

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

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

Total Hours: 12

The Graduate Certificate in Human Resources Management is available online.

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

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 to develop policies and procedures that ensure the safety of an organization's information assets without harming the productivity of the organization. Students will perform risk assessment to identify potential threats and design mitigation plans and identify the ethical dilemmas that occur in the context of cybersecurity. Conceptual and technical aspects of information security management solutions are discussed including the design, development and building of an Information Security Management solution.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 5327</td>
<td>Legal, Ethical, and Human Aspects of Cybersecurity</td>
<td>3</td>
</tr>
<tr>
<td>ISM 5328</td>
<td>Cybersecurity Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>ISM 5222</td>
<td>Business Data Communication</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6326</td>
<td>Information Systems Auditing and Control</td>
<td>3</td>
</tr>
</tbody>
</table>

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**

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

Total Hours: 3

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, M.Ed.

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 and evaluation. The program also includes substantial supervised internship opportunities.

The master’s degree in College Student Affairs Administration is a 36 hour program designed to be completed in two years. The program includes a professional core in addition to an advisor-approved elective. 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 institutional 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 36 semester hours
- Successfully complete all required coursework with a grade of ‘C’ or higher, with an institutional GPA of at least 3.0
- 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>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 (taken for two semesters)</td>
<td>6</td>
</tr>
<tr>
<td>SDS 6647</td>
<td>Foundations of Counseling Principles for Student Affairs Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following:

- COM 6129 Assessing Organizational Dynamics
- COM 6207 Advanced Communication Leadership
- 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 36
Computer Science, M.S.

The Department of Computer Science offers several graduate programs that provide instruction on a variety of modern topics in data analytics, software engineering, parallel and distributed computing, and cybersecurity giving graduates the edge to be highly competitive in today’s IT job market.

With one of the most affordable tuition plans in Florida and state-of-the-art facilities, our Computer Science Master’s program offers cutting edge curricula and learning environments, with professionally-oriented, hands-on study material.

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.

Program Requirements

A minimum grade of ‘C’ is required for all courses with an institutional GPA of 3.0 or higher.

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:

• Completion of an undergraduate degree with a minimum institutional GPA of 3.0
• Letter of intent (written by the applicant) to include the applicant’s motivation for pursuing an M.S. in Computer Science degree, the extent of related work experience in the field, and future goals related to the attainment of an M.S. in Computer Science degree
• Submission of a resume
• Names and contact information for two references
• Graduate Record Examination (GRE) is optional but highly recommended for international students seeking admission to the campus program

Students entering the program with a Bachelor’s degree other than Computer Science may be required to complete prerequisite courses in computing and programming. The department offers the following foundational courses to complete the prerequisite coursework:

• COP 5518 Foundations: Computing Essentials
• COP 5007 Foundations: Programming Essentials
• COP 5416 Foundations: Data Structure & Algorithms Essentials

Computer Science

The Computer Science program offers a flexible and innovative curriculum that blends theoretic foundations of computer science with state-of-the-art computing technologies. Students starting this program 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 program offers two concentration areas in software engineering and data science. However, other concentrations may be chosen with the approval of a faculty advisor.

The program prepares students for doctoral studies and careers in software engineering, data analytics, and other computing fields.

The program can be completed face-to-face or fully online. All courses are offered using a video-conferencing tool for online students to join live lectures and participate in live interactions between the instructor and the students. Online students are strongly encouraged to attend live lectures synchronously via the video-conferencing tool.

Concentrations are informal designations used by graduate programs to indicate areas of emphasis and research, but have no formal significance. They do not appear on the student transcript or diploma.

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

The program offers the following courses:

COP 5725 Database Systems 3
COP 5522 Parallel and Distributed Programming 3
COP 6416 Advanced Algorithms 3

Choose a concentration: 6

Software Engineering:
CEN 6030 Agile Software Engineering
CEN 6017 Continuous Software Engineering

Data Analytics focus:
CAP 6579 Advanced Data Mining
CAP 6789 Advanced Big Data Analytics

Advisor approved concentration

Electives 9

CIS 6415 Advanced Computer Systems and Networks
COP 6025 Advanced Programming Languages
COP 6727 Advanced Database Systems

5000/6000-level advisor-approved elective

Choose one of the following: 6

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

Total Hours 30
Criminal Justice, M.S.

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.

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.

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 institutional 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.
- Submission of a resume or a CV

* The graduate admission test requirement will be waived for the students who are eligible for Express Admission, and for the applicants who meet the following criteria:

- Have an undergraduate GPA of 3.25 or higher AND:
  - Have completed at least 9 semester hours of graduate coursework in criminal justice at UWF either as a non-degree seeking student or as a student in another graduate program, and earned at least a grade of “A” in all of that coursework OR:
  - Have earned a master's degree from an accredited university in a field closely related to criminal justice OR:
  - Have a successful record of three years of relevant work experience as determined by the Department’s Admissions Committee.

Degree Requirements

- Earning a grade point average of 3.0 or higher in the core, earning no less than a “C+” in any core course
- Maintenance of an overall graduate GPA of 3.0 or higher.

Criminal Justice Course Requirements

Major Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCJ 6061</td>
<td>Criminological Theory</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6008</td>
<td>Criminal Justice Theory</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6704</td>
<td>Research Methodology</td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6705</td>
<td>Analysis of Quantitative and Qualitative Data</td>
<td>3</td>
</tr>
<tr>
<td>Select One:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CCJ 6745</td>
<td>Policing and Society</td>
<td></td>
</tr>
<tr>
<td>CCJ 6006</td>
<td>Criminal Justice Administration</td>
<td></td>
</tr>
<tr>
<td>CJC 6021</td>
<td>Penology</td>
<td></td>
</tr>
<tr>
<td>CJL 6521</td>
<td>Courts and Society</td>
<td></td>
</tr>
<tr>
<td>One of the following options:</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Option 1</td>
<td>CCJ 6946</td>
<td>Criminal Justice Internship</td>
</tr>
<tr>
<td>Two CCJ, CJC, CJE, CJL, CJJ, or DSC Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three Unrestricted Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option 2</td>
<td>CCJ 6910</td>
<td>Criminal Justice Area Paper</td>
</tr>
<tr>
<td>Two CCJ, CJC, CJE, CJL, CJJ, or DSC Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three Unrestricted Electives</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Hours | 33
Curriculum & Instruction, M.Ed.

The Curriculum and Instruction Comprehensive Master's Program is designed to develop master teachers who will be prepared for instructional and leadership roles in special education 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 will be waived for the following:
- Applicants must have an undergraduate GPA of 3.0 or higher from an accredited institution.

* Applicants to the Professional Training Option must meet the FLDOE subject area requirements 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 (12 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6662</td>
<td>Principles of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>

Educational Research Sequence (6 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 6918</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Applied Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 6

Cognate Coursework

A cognate can be described as a secondary concentration or sub-specialization area. The department routinely offers cognates corresponding to the program specializations, i.e., Elementary, Middle Level, and Secondary. Other cognates are offered from time-to-time, based on student interest and faculty availability. Students should contact their academic advisor or the department chairperson to discuss other potential cognates, which may include the following: Instructional Leadership, Instructional Technology, Professional Training Option, Reading Endorsement, and Teaching English to Speakers of Other Languages (TESOL).

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 (12 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6662</td>
<td>Principles of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
</tbody>
</table>
Educational Research Sequence (6 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 6918</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Applied Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

Cognate Coursework
A cognate can be described as a secondary concentration or sub-specialization area. The department routinely offers cognates corresponding to the program specializations, i.e., Elementary, Middle Level, and Secondary. Other cognates are offered from time-to-time, based on student interest and faculty availability. Students should contact their academic advisor or the department chairperson to discuss other potential cognates, which may include the following: Instructional Leadership, Instructional Technology, Professional Training Option, Reading Endorsement, and Teaching English to Speakers of Other Languages (TESOL).

Secondary Education Comprehensive Specialization
This specialization is designed to develop master teachers who will be prepared for instructional and leadership roles in secondary education. A capstone experience is required in which students will apply methods of scholarly inquiry and composition, synthesizing insights and findings from their practice experience in a scholarly product.

Required Core (12 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6691</td>
<td>Issues in Education: A Bio-Psycho-Social Perspective</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6415</td>
<td>Issues in Classroom Management</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6662</td>
<td>Principles of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Educational Research Sequence (6 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 6918</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Applied Research</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

Cognate Coursework
A cognate can be described as a secondary concentration or sub-specialization area. The department routinely offers cognates corresponding to the program specializations, i.e., Elementary, Middle Level, and Secondary. Other cognates are offered from time-to-time, based on student interest and faculty availability. Students should contact their academic advisor or the department chairperson to discuss other potential cognates, which may include the following: Instructional Leadership, Instructional Technology, Professional Training Option, Reading Endorsement, and Teaching English to Speakers of Other Languages (TESOL).
Cybersecurity, M.S.

With an ever-growing demand for cybersecurity professionals, the M.S. in Cybersecurity prepares graduates to be leaders in the protection of data assets and analysis of potential threats to systems and networks.

The curriculum focuses on the techniques, policies, operational procedures, and technologies that secure and defend the availability, integrity, authentication, confidentiality, and non-repudiation of information and information systems and the development of secure software systems. The program is offered 100% online. The courses have been carefully blended to meet real-world requirements and to facilitate hands-on experiences that maximize a student’s learning outcome in the program.

Program Highlights

• Complete the program in five academic semesters
• Flexible online classes
• Become a highly-skilled, adaptable cybersecurity professional
• Predict and protect against cybercrime
• Participate in interactive case studies

Program Requirements

A minimum grade of ‘C’ is required for all courses with an institutional GPA of 3.0 or higher.

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:

• Completion of an undergraduate degree with a minimum institutional GPA of 3.0
• Letter of intent (written by the applicant) to include the applicant’s motivation for pursuing an M.S. in Cybersecurity degree, the extent of related work experience in the field, and future goals related to the attainment of an M.S. in Cybersecurity degree
• Submission of a resume
• Name and contact information of two individuals that can speak to the applicant’s ability to successfully complete the program

Students entering the program with a degree other than Cybersecurity, Computer Science, or Information Technology and pursue the Data or Software & System Security track may be required to complete prerequisite courses in computing and programming. The department offers the following foundational courses to complete the prerequisite coursework:

• COP 5518 Foundations: Computing Essentials
• COP 5007 Foundations: Programming Essentials

Cybersecurity Program Requirements

A minimum of 15 credits in coursework must be at the 6000-level. In addition, a minimum grade of ‘C’ is required for all courses with an institutional GPA of 3.0 or higher.

Core Courses 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 5775</td>
<td>Cybersecurity Principles</td>
</tr>
<tr>
<td>ISM 5327</td>
<td>Legal, Ethical, and Human Aspects of Cybersecurity</td>
</tr>
</tbody>
</table>

Coursework from the selected track 12

<table>
<thead>
<tr>
<th>Electives</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisor approved elective at the 5000- or 6000-level</td>
<td></td>
</tr>
</tbody>
</table>

COT 6428 Seminar in Cybersecurity 3

Total Hours 30

Data Security Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
</tr>
<tr>
<td>Choose three courses from the following:</td>
<td>9</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
</tr>
<tr>
<td>CAP 6772</td>
<td>Data Warehousing</td>
</tr>
<tr>
<td>CAP 6789</td>
<td>Advanced Big Data Analytics</td>
</tr>
<tr>
<td>CET 6882</td>
<td>Network Performance Monitoring and Security</td>
</tr>
<tr>
<td>CIS 6376</td>
<td>Database Security</td>
</tr>
<tr>
<td>CIS 6394</td>
<td>Digital Forensics</td>
</tr>
<tr>
<td>CIS 6800</td>
<td>Data Security</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
</tr>
<tr>
<td>CTS 5458</td>
<td>Data Visualization</td>
</tr>
</tbody>
</table>

Software & System Security Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEN 5079</td>
<td>Secure Software Development</td>
</tr>
<tr>
<td>Choose three courses from the following:</td>
<td>9</td>
</tr>
<tr>
<td>CEN 6074</td>
<td>Software Assurance and Security</td>
</tr>
<tr>
<td>CIS 5396</td>
<td>Ethical Hacking and Penetration Testing</td>
</tr>
<tr>
<td>CIS 6394</td>
<td>Digital Forensics</td>
</tr>
<tr>
<td>CIS 6800</td>
<td>Data Security</td>
</tr>
<tr>
<td>COP 5522</td>
<td>Parallel and Distributed Programming</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
</tr>
<tr>
<td>CNT 5407</td>
<td>System and Network Security</td>
</tr>
<tr>
<td>CNT 6519</td>
<td>Wireless Network Security</td>
</tr>
</tbody>
</table>

Security Management Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 5328</td>
<td>Cybersecurity Risk Management</td>
</tr>
<tr>
<td>Choose three courses from the following:</td>
<td>9</td>
</tr>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
</tr>
<tr>
<td>GEB 5816</td>
<td>MBA Foundations: Principles of Human Resources Management</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
</tr>
<tr>
<td>ISM 6326</td>
<td>Information Systems Auditing and Control</td>
</tr>
</tbody>
</table>

National Security Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSC 6045</td>
<td>Homeland Security</td>
</tr>
<tr>
<td>Choose three courses from the following:</td>
<td>9</td>
</tr>
<tr>
<td>CCJ 5018</td>
<td>Crime and Public Policy</td>
</tr>
<tr>
<td>CCJ 6715</td>
<td>Issues in Contemporary Criminal Justice</td>
</tr>
<tr>
<td>CPO 5779</td>
<td>Radicalism and Extremism</td>
</tr>
<tr>
<td>DSC 5020</td>
<td>Terrorism</td>
</tr>
<tr>
<td>INR 5330</td>
<td>National Security Policy, Technology and Cyber</td>
</tr>
<tr>
<td>INR 5385</td>
<td>Intelligence</td>
</tr>
</tbody>
</table>

* GEB 5816 and GEB 5875 are 1.5 sh; students must take both courses
Data Science, M.S.

The M.S. in Data Science (M.S.D.S.) offers students who hold bachelor’s degrees in mathematics, statistics, computer science, engineering, business, health or related fields an opportunity to broaden their knowledge in the field of data science. Data Science is an interdisciplinary field consisting of mathematics, statistics, computer programming, data management, machine learning, and visualization. Data scientists are trained to capture, maintain, process, and analyze data from large and complex data. Students in the M.S.D.S. program will learn to extract and communicate meaningful information from data sets and become capable of communicating their findings in a way that positively affects decisions in business, healthcare, industry, government, and the defense industry. Graduates with the ability to understand and use big data are already being employed by institutions and industries including government, healthcare, scientific research facilities, and colleges and universities. Students who graduate with the M.S.D.S. will be able to manipulate, manage, and interpret data suitable to the employer’s needs. The M.S.D.S. program is designed for students seeking careers in science, industry, or government; or for students who plan to pursue doctoral studies.

Admission Requirements

The selection of the applicants in Data Science tracks is based on the appropriate department approval. Hal Marcus College of Science and Engineering will determine the selection of applicants in the Analytics and Modeling track. The College of Business will determine the selection of students in the Analytics of Business Decisions track; and the Usha Kundu, MD College of Health will determine the selection of students in the Health Analytics track.

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

- have obtained a Bachelor’s degree from an accredited institution.
- have a minimum of 3.0 GPA (B or better average) on the undergraduate credits.
- Graduate Record Examination (GRE): Verbal score of at least 150 and Quantitative score of at least 150. GRE scores older than 5 years prior to admission may not be accepted.

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

- An applicant may be fully admitted if the student has all required undergraduate proficiency courses.
- An applicant may be provisionally admitted subject to completing the required undergraduate proficiency courses.

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

Prerequisite Course Requirements

Students seeking the M.S. in Data Science must have completed the following courses prior to admission:

- Introduction to Statistics (STA 2023)
- Calculus I (MAC 2311)
- One programming course (i.e., COP 2253, COP 2334, COP 2830 or equivalent)

All students in the Data Science program must complete the following core courses. A grade of ‘C’ or better is required in all courses with an institutional GPA of 3.0 or higher.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 5176</td>
<td>Statistical Modeling</td>
<td>3</td>
</tr>
<tr>
<td>STA 6235</td>
<td>Modeling in Regression</td>
<td>3</td>
</tr>
<tr>
<td>STA 6257</td>
<td>Advanced Statistical Modeling</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Track Options

In addition to fulfilling core requirements, students will choose to pursue one of three tracks:

Analytics and Modeling Track

Department approved 5/6000-level electives. A maximum of 9 sh may be at the 5000-level.

Choose four courses from the following list. Selection is based on Hal Marcus College of Science and Engineering advisor approval.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>CAP 6789</td>
<td>Advanced Big Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MAP 6114</td>
<td>Machine Learning</td>
<td>3</td>
</tr>
<tr>
<td>STA 6707</td>
<td>Multivariate Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Analytics of Business Decisions Track

Department approved 5/6000-level electives. A maximum of 9 sh may be at the 5000-level.

Choose four courses from the following list. Selection is based on College of Business advisor approval.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN 6511</td>
<td>Operations Management Problems</td>
<td>3</td>
</tr>
<tr>
<td>ISM 5404</td>
<td>Business Intelligence Applications</td>
<td>3</td>
</tr>
<tr>
<td>ISM 6136</td>
<td>Big Data Mining: A Managerial Perspective</td>
<td>3</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
<td>3</td>
</tr>
<tr>
<td>GEB 5875</td>
<td>MBA Foundations: Management Skills and Applications</td>
<td>3</td>
</tr>
<tr>
<td>ACG 6309</td>
<td>Accounting for Decision Making</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Health Analytics Track

Department approved 5/6000-level electives. A maximum of 9 sh may be at the 5000-level.

Choose four courses from the following list. Selection is based on Usha Kundu, MD, College of Health advisor approval.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 5459</td>
<td>Bioinformatics and Data Science</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6000</td>
<td>Epidemiology for Public Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6197</td>
<td>Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

HSA 6000  Disease Surveillance and Monitoring
HSA 6197  Health Informatics
HSA 6251  Disease Surveillance and Monitoring
HSA 6309  Accounting for Decision Making

* GEB5872 and GEB 5875 are 1.5 SCH; must take both courses.
** GEB 5872 must be taken before ACG 6309.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6752</td>
<td>Quantitative Foundations and Data Analysis for Health Admin</td>
</tr>
<tr>
<td>HSA 6385</td>
<td>Quality Improvement Processes in Health Organizations</td>
</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
</tr>
</tbody>
</table>

Total Hours 21
Educational Leadership Certification, M.Ed.

Educational Leadership Certification

The Educational Leadership Certification Program, accredited by the Council for the Accreditation of Educator Preparation (CAEP) and approved by the Florida Department of Education, is designed for students who have a minimum of two years (three years preferred) 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 degree emphasizes 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 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 embedded in each course. Students must have access to and work with an administrator in a school or educational setting.

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:

- Have a valid professional teaching certification issued by Florida or another U.S. state
- Have a minimum of two years (three years preferred) of k-12 teaching experience
- Have earned a GPA of at least 3.0 on bachelor's degree
- Submit a current (within five years) official Graduate Record Exam (GRE) scores OR Miller Analogies Test (MAT) score
- Submit a letter of intent that includes the following information: your professional background, short- and long-term goals, contributions you would like to make to your field of education, and strengths you bring to the program
- Submit contact information (email addresses and phone numbers) for two professional references
- Submit evidence of minimum ‘instructional expertise’ and ‘leadership potential’ standards as defined by 6A-5.081 by providing recent teacher evaluation ratings or evidence:
  - ‘Instructional expertise’ means documented successful demonstration of the core standards for effective educators outlined in the Florida Educator Accomplished Practices (FEAPs) and a documented track record of achieving student gains. Acceptable documentation of instructional expertise must include a rating of “effective” or higher on the “Performance of Students” and “Instructional Practice” sections of the candidate’s two most recent performance evaluations per Section 1012.34, F.S. For candidates who are not employed by a Florida public school district, a post-secondary institution or school district may accept alternative equivalent documentation demonstrating two years of effective instruction with a record of student learning gains.
  - ‘Leadership potential’ means the critical skills and dispositions that a candidate must demonstrate prior to entering the program. At a minimum, these qualifications must include an analysis of the candidate’s relentless focus on improving student achievement in their own classrooms and contributing to the demonstrable improvement of teaching effectiveness in the classrooms of colleagues.

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

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

All approvals for admission to the Educational Leadership program 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 of the College of Education and Professional Studies.

Teacher Education and Educational Leadership students are expected to adhere to the Principles of Professional Conduct for the Education Profession in Florida and national standards of conduct associated with professional, accreditation, and state agencies. Students will receive additional support, as needed or requested, through the Educational Leadership Remediation Plan.

Degree Requirements

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

- Be admitted to the program
- Complete degree requirements compliant with the time-to-degree policy
- Be recommended for graduation by the Department
- Successfully complete any additional requirements of the selected specialization
- Applicants who do not meet the GPA requirement but submit a desired current GRE verbal or MAT score at or above the 50th percentile and meet all remaining admission requirements may be conditionally admitted to the program. Specific academic requirements will be established by Teacher Education and Educational Leadership and monitored by the Graduate School (see Conditional Admission in the Admissions section of the catalog).

** The graduate admission test will be waived for the following:
- Applicants must have an undergraduate GPA of 3.0 or higher from an accredited institution.
**Major Requirements**

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDA 5191</td>
<td>Leadership in Education: Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6063</td>
<td>Introduction to Educational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6222</td>
<td>Administration of School Personnel</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6232</td>
<td>Law and Education</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6240</td>
<td>Introduction to School Finance</td>
<td>3</td>
</tr>
<tr>
<td>EDA 6503</td>
<td>The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6460</td>
<td>Foundations of Measurement</td>
<td>3</td>
</tr>
<tr>
<td>EDG 5250</td>
<td>Principles of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6285</td>
<td>Data Driven Decisions Using Standardized Student Achievement Data</td>
<td>3</td>
</tr>
<tr>
<td>EDS 6105</td>
<td>Human Relations and Communication in Education</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>
Engineering, M.S.

The Master of Science in Engineering degree is a joint venture between the Electrical and Computer Engineering and Mechanical Engineering departments at UWF. Students in this program will be able to choose between one of three high demand areas of concentration and mix in a wide variety of elective courses to develop a program that best suits their needs. We also provide both a thesis and a non-thesis (project) option.

Whether you are a professional wanting an MS degree for advancement or are preparing to move into a PhD program (our Robotics concentration would be a great way to prepare for the PhD in Intelligent Systems and Robotics at UWF), UWF has a lot to offer. Our highly trained faculty, state of the art labs and research, and high tech classrooms are just what you need.

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)
- Bachelor's degree from an ABET accredited program in electrical, computer or mechanical engineering (or closely related field)
- Undergraduate institutional GPA

The graduate admission test requirement will be waived for applicants with a 3.0 institutional undergraduate GPA or better. Students who are admitted to the program but do not have a sufficient background for their chosen concentration area may be required to complete additional coursework. All other students can only be admitted by approval of the Graduate Committee. These students will likely have to complete additional coursework as recommended by the Graduate Committee.

All students in the MSE program must complete the following courses with a minimum grade of C or better.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 6429</td>
<td>Principles of Engineering Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Concentration:

Students must take a set of 3 courses from one of the following areas of concentration:

Robotics and Control:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 5616</td>
<td>Advanced Control Systems</td>
</tr>
<tr>
<td>EEL 5683</td>
<td>Introduction to Autonomous Systems</td>
</tr>
<tr>
<td>EML 6805</td>
<td>Foundations for Robotics</td>
</tr>
</tbody>
</table>

Power Systems:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 5266</td>
<td>Power System Operation and Control</td>
</tr>
<tr>
<td>EEL 5262</td>
<td>Smart Distribution System</td>
</tr>
<tr>
<td>EEL 6245</td>
<td>Power Electronics and Utility Applications</td>
</tr>
</tbody>
</table>

Advanced Materials:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 5546</td>
<td>Composite Materials</td>
</tr>
<tr>
<td>EML 5239</td>
<td>Principles of Fracture Mechanics</td>
</tr>
<tr>
<td>EML 6305</td>
<td>Advanced Solid Mechanics</td>
</tr>
</tbody>
</table>

Electives: 12

Students can choose any 12 credits of any combination of 5000 and 6000 technical electives from Electrical and Computer Engineering, Mechanical Engineering, and/or Intelligent Systems and Robotics. At least 3 credits must be 6000 level. In addition, courses from Computer Science and/or Math and Statistics may apply if preapproved by the Engineering department.

<table>
<thead>
<tr>
<th>Thesis or project:</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis Option</td>
<td>EGN 6975 Thesis</td>
</tr>
<tr>
<td>Project Option:</td>
<td>EGN 6416 Engineering Project</td>
</tr>
</tbody>
</table>

Total Hours: 30
English, M.A.

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 will be waived if: the applicant holds an undergraduate degree in English from an accredited university with an institutional GPA of 3.5 or higher; the applicant has completed a master's or doctoral degree in any humanities or social science field with an institutional 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, an institutional 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.

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 final 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 Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 5009</td>
<td>Introduction to Advanced Literary Study</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6018</td>
<td>History of Literary Theory</td>
<td>3</td>
</tr>
<tr>
<td>ENG 6971</td>
<td>Thesis (By approval only. Course offered 1-6 sh per semester; 3 sh required)</td>
<td>3-6</td>
</tr>
<tr>
<td>CRW 6130</td>
<td>Workshop in Fiction Writing</td>
<td></td>
</tr>
<tr>
<td>CRW 6236</td>
<td>Workshop in Creative Non-Fiction Writing</td>
<td></td>
</tr>
<tr>
<td>CRW 6331</td>
<td>Workshop in Poetry Writing</td>
<td></td>
</tr>
<tr>
<td>CRW 6806</td>
<td>Workshop in Teaching Creative Writing</td>
<td></td>
</tr>
<tr>
<td>CRW 6934</td>
<td>Special Topics in Creative Writing</td>
<td></td>
</tr>
<tr>
<td>CRW 6130</td>
<td>Workshop in Fiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6236</td>
<td>Workshop in Creative Non-Fiction Writing</td>
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</tr>
<tr>
<td>CRW 6331</td>
<td>Workshop in Poetry Writing</td>
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</tr>
<tr>
<td>CRW 6806</td>
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<td>3</td>
</tr>
<tr>
<td>CRW 6934</td>
<td>Special Topics in Creative Writing</td>
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</tr>
<tr>
<td>CRW 6130</td>
<td>Workshop in Fiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6236</td>
<td>Workshop in Creative Non-Fiction Writing</td>
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<tr>
<td>CRW 6331</td>
<td>Workshop in Poetry Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6806</td>
<td>Workshop in Teaching Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6934</td>
<td>Special Topics in Creative Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following:

- **EN 6971** Thesis (By approval only. Course offered 1-6 sh per semester; 3 sh required)
- **--OR-- Approved electives (6 sh required)**

Choose three of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRW 6130</td>
<td>Workshop in Fiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6236</td>
<td>Workshop in Creative Non-Fiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6331</td>
<td>Workshop in Poetry Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6806</td>
<td>Workshop in Teaching Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 6934</td>
<td>Special Topics in Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>EN 5333</td>
<td>Topics in Rhetoric</td>
<td>3</td>
</tr>
<tr>
<td>ENC 5945</td>
<td>English Internship</td>
<td>3</td>
</tr>
<tr>
<td>LIT 5556</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 33-36
Environmental Science, M.S.

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. Detailed graduate guidelines will be provided to the students by the department. A grade of B- or better is required for all course requirements.

Environmental Science - Thesis Track

Core Requirements (9 sh)

<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>3</td>
</tr>
<tr>
<td>EVS 6196C</td>
<td>Sampling and Analysis in Environmental Sciences</td>
<td></td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 9

Thesis Requirements (21 sh)

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></td>
<td>15-20</td>
</tr>
</tbody>
</table>

Total Hours 21

Environmental Science - Non-Thesis Track

Core Requirements (9 sh)

<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>3</td>
</tr>
<tr>
<td>EVS 6196C</td>
<td>Sampling and Analysis in Environmental Sciences</td>
<td></td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 9

Non-Thesis Requirements (21 sh)

The non-thesis track entails a total of 30 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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advisor-approved graduate course work</td>
<td></td>
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</tr>
<tr>
<td>GEO 6118</td>
<td>Research Design</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EVS 6940</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>GEO 6905</td>
<td>Directed Study</td>
<td></td>
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Total Hours 21
Exceptional Student Education, M.A.

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 will 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 designed to develop master teachers who will be prepared for instructional and leadership roles in special education, but it is not an initial certification program.

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 (30-42 hours)

Intensive Applied Behavior Analysis Cognate (30-42 hours)

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 6222</td>
<td>Concepts of Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6223</td>
<td>Applied Behavior Analysis and System</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6224</td>
<td>Supervision and Management Fluency</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6225</td>
<td>Foundations of Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6226</td>
<td>Behavioral Assessments</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6437</td>
<td>Measurement and Single Case Design</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6557</td>
<td>Ethics in Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>EDF 6325</td>
<td>Autism and the Law</td>
<td>2</td>
</tr>
<tr>
<td>EDF 6221</td>
<td>Intensive Intervention in Autism and Related Disabilities</td>
<td>2</td>
</tr>
<tr>
<td>EDF 6229</td>
<td>Curriculum Design, Stimulus Equivalence, and Generativity</td>
<td>2</td>
</tr>
<tr>
<td>EEX 6051</td>
<td>Exceptionalities</td>
<td>3</td>
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Total Hours 30

Optional Courses

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EDF 6943</td>
<td>Supervised Experience in Single Case Design</td>
<td>1-6</td>
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</table>
### Special & Alternative Education Specialization (33 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 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></td>
<td><strong>Total Hours</strong></td>
<td><strong>12</strong></td>
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</table>

#### Educational Investigative Sequence

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>EDG 6918</td>
<td>Introduction to Research</td>
<td>3</td>
</tr>
<tr>
<td>EDG 6916</td>
<td>Applied Research (should be taken last semester)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

#### Special Education Cognate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</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>Principles of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Advisor Approved Electives</strong></td>
<td><strong>6</strong></td>
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<tr>
<td></td>
<td><strong>Total Hours</strong></td>
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</table>

#### 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>Principles of Curriculum and Instruction</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Advisor Approved Electives</strong></td>
<td><strong>6</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

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**Notes:**
- EDF 6227 or EDF 6944: Experimental Analysis of Behavior or Advanced Single Case Design (3-6 hours total)
- EDF 6691: Issues in Education: A Bio-Psycho-Social Perspective (3 hours)
- EEX 6051: Exceptionalities (3 hours)
- EDG 6415: Issues in Classroom Management (3 hours)
- EDG 6288: Educational Assessment (3 hours)
- EDG 6918: Introduction to Research (3 hours)
- EDG 6916: Applied Research (should be taken last semester) (3 hours)
- EEX 6035: Best Practices in Teaching Challenging Students (3 hours)
- EEX 6612: Behavior Management (3 hours)
- EDG 6662: Principles of Curriculum and Instruction (3 hours)
- EEX 5283: Employment, Social, and Personal Skill Building for Exceptional Students (3 hours)
- EEX 6035: Best Practices in Teaching Challenging Students (3 hours)
- EDG 6662: Principles of Curriculum and Instruction (3 hours)
Family Nurse Practitioner, M.S.N.

This innovative and flexible program prepares the professional nurse for an advanced nursing practice as a Family Nurse Practitioner and doctoral studies. 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.

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.
Geographic Information Science (GIS) Administration, M.S.

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 to the GIS Administration program does not require an undergraduate geography or related degree. However, foundation-level proficiency in GIS and experience with Esri ArcGIS Pro software is required to be successful in the program. These foundational proficiencies can be completed alongside core program courses or separately through our Graduate GIS Certificate program. Many students enter with no previous GIS coursework.

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:

- GIS academic preparation*
- Submission of a letter of intent demonstrating graduate-level motivation and writing abilities
- Submission of a resume including appropriate employment at increasing levels of responsibility
- List two names of professional and/or academic reference including title, email, and phone number

*Transcripts are reviewed to determine if GIS foundational proficiencies have been met.

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

Geographic Information Science Administration

UWF’s online GIS degree includes a total of 36 credit hours. You’ll explore 12 credit hours of business management skills and 24 credit hours of advanced geographic information science topics.

If you do not have a GIS background, 15 credit hours of foundational proficiencies courses are required and can be taken alongside the business classes. Foundational proficiencies do not count towards the degree. Many students enter with no previous GIS course work.

Foundational Proficiencies (15 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5050</td>
<td>Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5050L</td>
<td>Geographic Information Systems Lab</td>
<td>1</td>
</tr>
<tr>
<td>GIS 5007</td>
<td>Computer Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5007L</td>
<td>Computer Cartography Lab</td>
<td>1</td>
</tr>
<tr>
<td>GIS 5027</td>
<td>Aerial Photography and Remote Sensing Lab</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5027L</td>
<td>Aerial Photography and Remote Sensing Lab</td>
<td>1</td>
</tr>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td>3</td>
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Total Hours: 15

Management Core (12 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<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>
<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>GEB 5870</td>
<td>MBA Foundations: e-Business Systems</td>
<td>1.5</td>
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<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
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Total Hours: 12

Geographic Information Science (GIS) (24 sh)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
<td>3</td>
</tr>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6005</td>
<td>Communicating GIS</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6105</td>
<td>Spatial Data Management</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6110</td>
<td>Advanced Topics in Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6555</td>
<td>Geographic Information Systems Management</td>
<td>3</td>
</tr>
<tr>
<td>GIS 6955</td>
<td>GIS Capstone</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Hours: 24

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

The Graduate Geographic Information Science Certificate program is designed to teach students and working professionals both the highly in-demand technical skill of using industry-standard geospatial software as well as a strong conceptual foundation in Geographic Information Science. Graduate level courses focus on project development and management relating to various applications. 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, GIS Specialists, and GIS Managers within various industries. All courses are offered online. Admission to the Graduate GIS Certificate program does not require an undergraduate geography or related degree. However, foundation-level proficiency in GIS and experience with Esri ArcGIS Pro software is required to be successful in the program. These foundational proficiencies can be completed alongside core program courses. Many students enter with no previous GIS coursework.

All graduate-level foundational proficiency courses and core courses with exception to the GIS Internship can be applied to the MS in Geographic Information Science Administration program.

Admission Requirements

- Admission to UWF as a degree or non-degree seeking graduate student
• Submission of GIS Certificate Program Application
• Provide proof of a Bachelor's degree from a regionally accredited institution and course syllabi for any GIS coursework
• Submission of letter of intent demonstrating graduate-level motivation and writing abilities

Inquiries should be addressed to gisonline@uwf.edu. The department's GIS staff will assist in all matters of application, admission, degree planning, and graduation. All students planning to enter the program must meet with an advisor to develop a degree plan.

Course Requirements

Foundational Proficiencies
Candidates are expected to have completed the equivalent of the following foundational proficiency courses. Courses that are not compliant with UWF's 6-year time-to-degree policy must be reviewed to determine proficiency. Foundation courses and core courses may be taken concurrently pending department approval.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 4043/4043L</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>or GIS 5050/5050L</td>
<td>Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GIS 4006/4006L</td>
<td>Computer Cartography</td>
<td>4</td>
</tr>
<tr>
<td>or GIS 5007/5007L</td>
<td>Computer Cartography</td>
<td></td>
</tr>
<tr>
<td>GIS 4035/4035L</td>
<td>Photo Interpretation and Remote Sensing</td>
<td>4</td>
</tr>
<tr>
<td>or GIS 5027/5027L</td>
<td>Aerial Photography and Remote Sensing</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12

Core Courses
Students are required to complete the following core courses with a grade of 'C' or better and maintain an overall 3.0 GPA to be awarded the Graduate Geographic Information Science Certificate.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5103</td>
<td>GIS Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5100</td>
<td>Applications in Geographic Information Systems</td>
<td></td>
</tr>
<tr>
<td>GIS 5265</td>
<td>GIS Applications for Archaeology</td>
<td></td>
</tr>
</tbody>
</table>

Choose one of the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5935</td>
<td>Special Topics in Geographic Science</td>
<td></td>
</tr>
<tr>
<td>GIS 5938</td>
<td>Special Topics in GIS for Archaeology</td>
<td></td>
</tr>
</tbody>
</table>

Choose three semester hours from the following: 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIS 5945</td>
<td>GIS Internship</td>
<td></td>
</tr>
<tr>
<td>GIS 6905</td>
<td>GIS Directed Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 12
Health, Leisure, & Exercise Science, M.S.

Health, Leisure, & 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:

- Undergraduate Institutional GPA
- Undergraduate Senior Year/Major GPA
- Academic Preparation as demonstrated by undergraduate degree major
- Submission of letter of intent describing reasons for applying to this program and associated career goals
- Submission of a list of three references that includes names, title, and contact information
- 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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6535</td>
<td>Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6595</td>
<td>Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>APK 5702</td>
<td>Statistics in Exercise Science</td>
<td>3</td>
</tr>
<tr>
<td>APK 5116C</td>
<td>Applied Physiology in Muscular Development</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>
</tbody>
</table>

Total Hours 33

Thesis or Internship Track

Students will choose one of the following tracks.

Thesis Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APK 6970</td>
<td>Research for Master’s Thesis</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Total Hours 3-6

Internship Track

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>APK 6940</td>
<td>Internship in Exercise Science</td>
<td>3-6</td>
</tr>
</tbody>
</table>

Total Hours 3-6

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:

- Undergraduate Institutional GPA
- Undergraduate Senior Year/Major GPA
- Academic Preparation as demonstrated by undergraduate degree major
- Submission of letter of intent describing reasons for applying to this program and associated career goals
- Submission of three references
- Work Experience as reflected in a résumé

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</th>
<th>Title</th>
<th>Credits</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>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>---------</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 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>
<tr>
<td></td>
<td>Choose one of the following:</td>
<td></td>
</tr>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
<td>6</td>
</tr>
<tr>
<td>PET 6950</td>
<td>Project in Lieu of Thesis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>36</td>
</tr>
</tbody>
</table>
Health Promotion & Worksite Wellness, M.S.

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:

- Undergraduate institutional GPA
- Undergraduate Senior Year/Major GPA
- Submission of letter of intent describing reasons for applying to the program and associated career goals
- Submission of contact information for two professional references
- Work Experience as reflected in a resume (only for graduate assistants)

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>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HLP 6535</td>
<td>Research Procedures</td>
<td>3</td>
</tr>
<tr>
<td>HLP 6595</td>
<td>Research Seminar</td>
<td>3</td>
</tr>
<tr>
<td>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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>APK 6111C</td>
<td>Advanced Exercise Physiology</td>
</tr>
<tr>
<td>HLP 6940</td>
<td>Internship</td>
</tr>
<tr>
<td>HLP 6971</td>
<td>Thesis</td>
</tr>
<tr>
<td>HSA 6521</td>
<td>Critical Analysis of Health</td>
</tr>
<tr>
<td>COM 5025</td>
<td>Health Communication</td>
</tr>
</tbody>
</table>

Total Hours 39

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 5410</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td></td>
</tr>
<tr>
<td>HSC 6135</td>
<td>Health Literacy and Cultural Competency</td>
<td></td>
</tr>
<tr>
<td>HSA 6106</td>
<td>Health Delivery Systems</td>
<td></td>
</tr>
<tr>
<td>HSC 6576</td>
<td>Nutrition Across the Life Cycle</td>
<td></td>
</tr>
<tr>
<td>HSC 6905</td>
<td>Directed Study</td>
<td></td>
</tr>
<tr>
<td>MAN 5116</td>
<td>Management of Diversity</td>
<td></td>
</tr>
<tr>
<td>APK 6127C</td>
<td>Clinical Exercise Testing and Interpretation</td>
<td></td>
</tr>
<tr>
<td>PHC 5355</td>
<td>Fundamentals of Occupational Safety and Health</td>
<td></td>
</tr>
<tr>
<td>APK 6167C</td>
<td>Advanced Human Nutrition and Metabolism</td>
<td></td>
</tr>
</tbody>
</table>
Healthcare Administration, M.H.A.

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 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 institutional 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.
- Healthcare experience and/or potential as noted in two letters of recommendation (required from applicants with less than 3.5 GPA from the bachelor's degree-granting institution; letters of recommendation are optional for applicants with a 3.5 or higher GPA)
- Submission of a resume or CV

* The test requirement will 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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 6103</td>
<td>Health Services Administration</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 5871</td>
<td>MBA Foundations: Managerial Economics</td>
<td>1.5</td>
</tr>
<tr>
<td>HSA 6106</td>
<td>Health Delivery Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6425</td>
<td>Healthcare Law</td>
<td>3</td>
</tr>
<tr>
<td>HSA 6436</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>GEB 5876</td>
<td>MBA Foundations: Marketing Management</td>
<td>1.5</td>
</tr>
</tbody>
</table>

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, M.A.

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 successfully defend his/her research paper through an oral defense.

The student must have 6 hours of approved coursework outside of History toward degree requirements.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</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>
<tr>
<td>Plan A choose 6 or Plan B choose 9 hours from the History electives listed below or from those approved by your advisor</td>
<td>6-9</td>
<td></td>
</tr>
</tbody>
</table>
Choose 6 hours from approved outside courses listed below:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5137</td>
<td>Nautical Archaeology Seminar</td>
</tr>
<tr>
<td>ANG 5172</td>
<td>Historical Archaeology Seminar</td>
</tr>
<tr>
<td>ANG 5173</td>
<td>Historical Research Methods in Archaeology</td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Policies, Practices and Archaeology in Historic Preservation</td>
</tr>
<tr>
<td>AML 6455</td>
<td>Topics in American Literature</td>
</tr>
<tr>
<td>POS 6045</td>
<td>Seminar in American Politics</td>
</tr>
</tbody>
</table>

Plan A HIS 6971 (6 hours) or Plan B HIS6911 (3 hours)  

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 Code</th>
<th>Course Title</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</td>
<td>Master's Research</td>
</tr>
</tbody>
</table>

Take (2) History Electives  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5059</td>
<td>Methods I: The Historian's Craft</td>
</tr>
<tr>
<td>HIS 5063</td>
<td>Graduate Methods II: The Professional Historian</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 must successfully defend his/her paper through an oral defense. 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 in the History Master's Program is designed for students with a strong interest in applying historical research and knowledge to address a variety of contemporary needs, issues, and audiences. The program prepares students for professional employment by providing theoretical foundations, practical skills, and real-world experiences in public and applied history through coursework and internship experiences.

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 Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5059</td>
<td>Methods I: The Historian's Craft</td>
</tr>
<tr>
<td>HIS 5063</td>
<td>Graduate Methods II: The Professional Historian</td>
</tr>
<tr>
<td>HIS 6055</td>
<td>Public History Seminar</td>
</tr>
<tr>
<td>HIS 6056</td>
<td>Public History Practicum</td>
</tr>
<tr>
<td>HIS 6089</td>
<td>Capstone Public History Internship</td>
</tr>
</tbody>
</table>

Total Hours: 15

History Core

Approved 5000/6000 European History/Latin American History/ African History course  

Approved 5000/6000 American History course  

Total Hours: 6

Public History Electives

Applied History Electives  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIS 5066</td>
<td>Local History</td>
</tr>
<tr>
<td>HIS 5077</td>
<td>Oral and Community History</td>
</tr>
<tr>
<td>HIS 5087</td>
<td>Museology and Museography</td>
</tr>
<tr>
<td>HIS 5165</td>
<td>Doing Digital History</td>
</tr>
<tr>
<td>HIS 5515</td>
<td>History of Architecture</td>
</tr>
<tr>
<td>HIS 6083</td>
<td>Historic and Heritage Preservation Seminar</td>
</tr>
<tr>
<td>HIS 6946</td>
<td>Public History Internship</td>
</tr>
</tbody>
</table>

Approved 5000/6000 Level Applied History Elective  

Non-History Electives  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 5137</td>
<td>Nautical Archaeology Seminar</td>
</tr>
<tr>
<td>ANG 5172</td>
<td>Historical Archaeology Seminar</td>
</tr>
<tr>
<td>ANG 5173</td>
<td>Historical Research Methods in Archaeology</td>
</tr>
<tr>
<td>ANG 5181</td>
<td>Geographic Information Systems in Archaeology</td>
</tr>
<tr>
<td>ANG 6196</td>
<td>Policies, Practices and Archaeology in Historic Preservation</td>
</tr>
<tr>
<td>ARH 5836</td>
<td>Museum and Gallery Studies</td>
</tr>
</tbody>
</table>

Approved 5000/6000 level outside elective

Total Hours: 12-18
Historic Preservation Certificate

Department: History
Method of Instruction: Classroom
Semester Hours: 19

The Historic Preservation Certificate Program allows students to acquire the advanced skills and knowledge necessary to function as professionals in a wide variety of fields pertaining to historic preservation and cultural resource management in the United States. They gain expertise through courses in their chosen majors but advance those skills through the certificate program.

**Foundational Proficiencies**

The certificate is designed primarily for students who are currently enrolled in or have completed an MA degree in History or Historical Archaeology, or who meet the program admission standards for the MA Programs in History or Anthropology. An applicant not currently enrolled in one of the History M.A. programs or the Archaeology tracks of the Anthropology M.A. program must have a minimum 3.0 GPA in 15 semester hours of upper-level history courses. Students not enrolled in one of these programs and accepted without the 15 semester hours of prerequisite work may be required to correct the deficiency before taking graduate-level courses.

<table>
<thead>
<tr>
<th>Core</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANG 6196 Policies, Practices and Archaeology in Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>HIS 5059 Methods I: The Historian's Craft</td>
<td></td>
</tr>
<tr>
<td>HIS 6055 Public History Seminar</td>
<td></td>
</tr>
<tr>
<td>HIS/ANG 6XXX Historic Preservation Capstone</td>
<td></td>
</tr>
</tbody>
</table>

**History and Anthropology Electives**

9 credits, at least 3 from each department

| HIS 5063 Graduate Methods II: The Professional Historian |    |
| HIS 5077 Oral and Community History                     |    |
| HIS 6083 Historic and Heritage Preservation Seminar     |    |
| HIS 5515 History of Architecture                        |    |
| ANG 5137 Nautical Archaeology Seminar                   |    |
| ANG 5172 Historical Archaeology Seminar                 |    |
| ANG 5173 Historical Research Methods in Archaeology     |    |

Total Hours 19
**Information Technology, M.S.**

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 through elective courses.

**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:

- Minimum undergraduate institutional GPA of 3.0
- Undergraduate degree major
- Submission of a resume or CV
- 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
- Submission of any professional or industry certifications earned by the applicant (optional)
- Contact information for two academic or professional references who can address the applicant's ability to succeed in our graduate program.

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>21</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5519</td>
<td>Programming for Information Technology</td>
</tr>
<tr>
<td>CTS 5458</td>
<td>Data Visualization</td>
</tr>
<tr>
<td>CAP 5772</td>
<td>Digital Media Analytics</td>
</tr>
<tr>
<td>CIS 6710</td>
<td>Trends in Information Technology</td>
</tr>
<tr>
<td>CET 6882</td>
<td>Network Performance Monitoring and Security</td>
</tr>
<tr>
<td>CIS 6950</td>
<td>Information Technology Capstone Seminar (normally 3 sh in two consecutive semesters)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electives (Choose 3)</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 5725</td>
<td>Database Systems</td>
</tr>
<tr>
<td>COP 5775</td>
<td>Database Administration</td>
</tr>
<tr>
<td>COP 6727</td>
<td>Advanced Database Systems</td>
</tr>
<tr>
<td>CAP 5771</td>
<td>Data Mining</td>
</tr>
<tr>
<td>CAP 6789</td>
<td>Advanced Big Data Analytics</td>
</tr>
<tr>
<td>CAP 6772</td>
<td>Data Warehousing</td>
</tr>
<tr>
<td>MAN 6156</td>
<td>Management and Organizational Behavior</td>
</tr>
<tr>
<td>EXP 5256</td>
<td>Human Factors Psychology</td>
</tr>
<tr>
<td>GEB 5872</td>
<td>MBA Foundations: Financial Management I</td>
</tr>
<tr>
<td>GEB 5873</td>
<td>MBA Foundations: Financial Management II</td>
</tr>
</tbody>
</table>

**Total Hours** 30
Instructional Design and Technology, Ed.D.

Program Description
The Ed.D. in Instructional Design and Technology prepares students to fulfill leadership roles related to organizational development, performance improvement, technology integration, and workplace learning across multiple sectors. Graduates will find career opportunities in K12, higher education, business and industry, military, healthcare, and other organizational settings. The Ed.D. in Instructional Design and Technology is an applied doctoral degree, preparing students to serve as practitioner-scholars, providing leadership, conducting action research, and guiding change management efforts based on research and best practices related to instructional design, instructional technology, performance technology, and technology integration. Students will learn to apply the principles of systems theories, learning theories, communication theories, instructional theories, and action research to solve organizational problems.

Students will complete 48 credit hours of coursework, followed by 18 credit hours in the dissertation phase of the program, for a total of 66 credit hours. This fully online program includes three residencies; one each during the first two years of coursework and one upon completion of all coursework. Each residency is integrated with a Doctoral Seminar class, and will consist of online work before and after the residency, which will consist of a few days of intensive face-to-face work. The first seminar will focus on scholarly writing and take place on the Pensacola main campus. The second seminar will focus on designing, conducting, and disseminating scholarly research and will take place on location at a professional conference. The final seminar will serve as the Coursework Capstone Experience. It will take place on the Pensacola main campus and provide students with an opportunity to demonstrate mastery of the coursework prior to moving to candidacy.

The expected time to completion is 4-5 years, assuming enrollment in two courses (6-credit hours) per semester, year-round, during the coursework phase of the program, and steady progress towards completion of the dissertation-in-practice. If students opt to take more or less credits in a given semester they should recognize that doing so may impact their time to completion and must work closely with their advisor to determine the impact on the overall degree plan.

Admissions Requirements
Students will be admitted to the program in Fall (August start). Spring and Summer admission are not offered.

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:

- Graduate admissions test score(s) from one of the following*:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
- GPA of 3.5 or higher on the most recent graduate degree
- Submission of a professional resume
- Submission of three professional references
- A minimum of two of the three references must be able to speak to the applicant's likelihood for academic success at the doctoral level (e.g. past professors)
- Participation in a web-based interview

* The graduate admission test will be waived for applicants with a GPA of 3.75 or higher on the most recently completed graduate degree.

Prospective students are encouraged to contact the department prior to applying.

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

- Complete 48 credit hours of coursework and a minimum of 18 credit hours of dissertation, for a total of 66 credit hours
- Overall GPA of 3.25 or higher
- Earn a grade of B or higher in all courses
- Participate in three required residencies
- Maintain continuous enrollment during the dissertation phase of the program
- Complete and successfully defend the dissertation-in-practice
- Meet all university requirements for final submission of the completed dissertation

All students are required to complete all components of the Instructional Design and Technology Core (18 credit hours), Research Core (18 credit hours), and Dissertation (18 credit hours) portions of the degree program. Additionally, each student will complete 12 credit hours in one of two tracks, Instructional Technology or Performance Technology.* The Instructional Technology track provides advanced coursework related to emerging technologies, technology integration, and leading distance learning initiatives. The Performance Technology track provides advanced coursework in the analysis of organizational problems and opportunities and leading both training and non-training related performance improvement initiatives. Students should work with their advisers and faculty mentors to identify the most appropriate track based on their future goals.

Instructional Design and Technology Core (18 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 7609</td>
<td>Principles of Instructional Systems Design</td>
<td>3</td>
</tr>
<tr>
<td>EME 7676</td>
<td>Theoretical Foundations of ID, IT, and PT</td>
<td>3</td>
</tr>
<tr>
<td>EME 7685</td>
<td>Research-based Models of ID, IT, and PT</td>
<td>3</td>
</tr>
<tr>
<td>EME 8608</td>
<td>IDT Foundations, Issues and Trends</td>
<td>3</td>
</tr>
<tr>
<td>EME 7692</td>
<td>Doctoral Seminar-Scholarly Writing in IDT</td>
<td>3</td>
</tr>
<tr>
<td>EME 8693</td>
<td>Doctoral Seminar-Analysis and Dissemination of IDT Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 18

Research Core (18 credit hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 7618</td>
<td>Instructional Design and Technology Research</td>
<td>3</td>
</tr>
<tr>
<td>EME 7695</td>
<td>Action Research in IDT</td>
<td>3</td>
</tr>
<tr>
<td>EDF 7404</td>
<td>Quantitative Methods and Educational Statistics 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>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 7489</td>
<td>Mixed Methods Research Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td>18</td>
</tr>
</tbody>
</table>

**Instructional Technology OR Performance Technology Track, pick one (12 credit hours)**

**Instructional Technology Track**

- EME 7068 Technology-Based Learning Theory and Research 3
- EME 7067 Emerging Technologies - Analysis and Implementation 3
- EME 7075 Distance Learning Design and Development Leadership 3
- EME 7079 Distance Learning Implementation and Evaluation 3

**Total Hours** 12

**Performance Technology Track**

- EME 7365 Human Performance Technology Theory and Research 3
- EME 7015 Analysis in Human Performance Technology 3
- EME 7357 Intervention Selection, Design and Development Leadership 3
- EME 7353 Leading Intervention Implementation and Evaluation 3

**Total Hours** 12

**Dissertation (18 credit hours)**

- EME 8695 Doctoral Seminar - Coursework Capstone Experience 3
- EME 8609 IDT Research Design 3
- EME 8981 Dissertation in Practice - Phase 1 3
- EME 8982 Dissertation in Practice - Phase 2 3
- EME 8983 Dissertation in Practice - Phase 3 3
- EME 8984 Dissertation in Practice - Phase 4 3

**Total Hours** 18

* 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 & Technology, M.Ed.

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 institutional 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 will 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
- 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 Code</th>
<th>Course Title</th>
<th>Semester 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 Code</th>
<th>Course Title</th>
<th>Semester 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
International Affairs, M.A.

Program Description

The M.A. in International Affairs prepares students to confront the challenges of an increasingly globalized world. The program is well-suited for students considering or presently pursuing a military or national security career, as well as those interested in international public service or policy work. The curriculum emphasizes international politics, including relations between countries, trade and diplomatic negotiations between countries, foreign policy, strategy, security, intelligence, and military conflict. Several courses emphasize policy-making and decision-making processes, institutions, national and regional politics, culture, and diplomatic relations. The program consists of 33 semester hours plus successful completion of a comprehensive examination or a thesis. All new students should be advised by the departmental advisor. 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 five of their six core courses.

Admissions 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:

- Graduate Record Examination (GRE) verbal and quantitative score or Miller Analogies Test (MAT) with a minimum score in each that ranks in the 50th percentile or better*
- Undergraduate cumulative GPA of 3.0 or above
- Submission of a sample research paper

* The graduate admission test will 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.

Degree Requirements

Core Courses (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 6045</td>
<td>Seminar in American Politics</td>
<td>3</td>
</tr>
<tr>
<td>POS 6006</td>
<td>The Study of 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>
<tr>
<td></td>
<td>Total Hours</td>
<td>18</td>
</tr>
</tbody>
</table>

Electives (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 and the comprehensive exam.
Mathematical Sciences, M.S.

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 during its scheduled time (Central time zone) via the University’s online course portal. The strength of the online graduate program and students’ success depend on the live interaction between students and lecturers.

Test Proctoring Requirements for Online Students

In order to ensure the security and integrity of our exams, students who do not live near the UWF Main or Emerald Coast campus will need to take exams with a proctor. Proctored exams may only be administered from 12:00PM to 7:00PM (Central). If you live outside of the Central time zone, you must adjust your time to synchronize with this time frame (i.e.: 1:00PM to 8:00PM Eastern, etc.). For more details, please see our website for Exam Proctoring Information.

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 will 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 eligible for admission if they have all required undergraduate proficiency courses.

With the approval of the department, the student may transfer a maximum of six semester hours or two courses (whichever is greater in credit) of graduate work from another institution to apply to the degree. See the Transfer of Credit policy (p. 53) for more information.

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

Foundational Proficiencies

Applicant transcripts will be reviewed for the following foundational proficiencies when determining acceptance to the program.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MAS 3105</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>STA 3162C</td>
<td>Applied Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Choose one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MAA 4211</td>
<td>Advanced Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MAD 4401</td>
<td>Numerical Analysis</td>
<td>3</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 one-semester Capstone project (3 sh) or two-semester research courses (6 sh) are required, in which the candidate will investigate topics in mathematics or statistics.

All candidates will take and pass comprehensive examinations covering the graduate core requirements.

A grade of C- or better is required in all coursework with a minimum institutional GPA of 3.0.

Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAS 5145</td>
<td>Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>STA 5326</td>
<td>Statistical Inference</td>
<td>3</td>
</tr>
</tbody>
</table>

All students will take and pass two comprehensive examinations covering these core courses.

Total Hours 6

Track Options

In addition to fulfilling core requirements, students will choose to pursue a thesis or non-thesis track.

Thesis Track

Department approved 5/6000-level electives. A maximum of 9 sh may be at the 5000-level.

Choose one of the following: 6

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

Total Hours 24
Non-Thesis Track (choose one of the three options)

Department approved 5/6000-level electives. A maximum of 9 credit hours may be at the 5000-level.

Choose one of the following:

<table>
<thead>
<tr>
<th>Mathematics Research</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6903 Mathematics Research 1</td>
<td></td>
</tr>
<tr>
<td>MAT 6904 Mathematics Research 2</td>
<td></td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Statistics Research</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 6912 Statistics Research 1</td>
<td></td>
</tr>
<tr>
<td>STA 6913 Statistics Research 2</td>
<td></td>
</tr>
</tbody>
</table>

OR

<table>
<thead>
<tr>
<th>Capstone Project: choose one of the following</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAT 6910 Capstone Projects in Mathematics</td>
<td></td>
</tr>
<tr>
<td>STA 6950 Capstone Projects in Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours | 24 |
Nursing, M.S.N.

This innovative and flexible online program prepares the professional nurse for leadership, advanced nursing roles, and doctoral studies. 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.

If an applicant is unable to meet the above criteria, they may petition the Nursing Department Graduate Admissions Committee and request a special review.

Please note that upon admission the M.S.N. student will receive information concerning current UWF Nursing Department requirements for enrollment. These include, but are not limited to: physical examination and immunizations; Level 2 criminal background check; drug screen; VECHS fingerprinting; AHA BCLS certification; proof of professional liability insurance; and proof of personal health insurance.

Degree Requirements

Students wishing to earn a M.S.N. must successfully complete both the core courses and the specialty courses.

M.S.N. Core (14 sh)

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

Nurse Executive Specialization (25 sh)

M.S.N Core (14 sh)

See Program Requirements

Nurse Executive Specialization (25 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6793</td>
<td>Fiscal Administration for the Health Professional</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6872</td>
<td>Information Technology and Data Analysis for Healthcare Professionals</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6734</td>
<td>Project Development and Management for Healthcare Professionals</td>
<td>3</td>
</tr>
<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>

Education Specialization

M.S.N Core (14 sh)

See Program Requirements

Education Specialization (25 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NGR 6712</td>
<td>Advanced Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6002</td>
<td>Advanced Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6140</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6710</td>
<td>Nursing Education Seminar I</td>
<td>2</td>
</tr>
<tr>
<td>NGR 6710L</td>
<td>Nursing Education Practicum I</td>
<td>2</td>
</tr>
<tr>
<td>NGR 6715</td>
<td>Nursing Education Seminar II</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6715L</td>
<td>Nursing Education Practicum II</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6718</td>
<td>Nursing Education Seminar III</td>
<td>3</td>
</tr>
<tr>
<td>NGR 6718L</td>
<td>Nursing Education Practicum III</td>
<td>3</td>
</tr>
</tbody>
</table>
Political Science, M.A.

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. All new students should be advised by the departmental advisor. In addition to the university requirement that students maintain an institutional GPA of 3.0 or higher, students must also make a 3.0 or higher GPA in at least 5 of the 6 core courses.

Online M.A. in Political Science

The Reubin O’D. Askew Department of Government offers a fully online program for the M.A. in Political Science. To be eligible to apply for the online program, students must live outside of Escambia and Santa Rosa counties in Florida. 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 strength of the online graduate program and students' success depend on these live interactions.

Admission Requirements

In addition to the University graduate admission requirements described in the Admissions section (p. 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 institutional GPA of 3.0 or above
- Submission of a sample research paper

* The graduate admission test will be waived for the following:
- Applicants must have an undergraduate institutional GPA of at least 3.25 or higher in the Political Science, Political Science-Pre Law, or International Studies / Affairs major.

Degree Requirements

Political Science Core

<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>
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<tr>
<td>POS 6045</td>
<td>Seminar in American Politics</td>
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</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

Non-Thesis Option

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 successful completion of a chair- & advisor-approved comprehensive exam.

Total Hours 15

Thesis Option

Thesis students 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.

<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 15
Psychology, M.A.

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 institutional 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 EXP 4404 Psychology of Learning, or its equivalent, before taking EAB 5705 Behavioral and Cognitive Therapies.**

- **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 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 coursework.

Graduate students cannot withdraw from more than 2 classes. If withdrawing from 2 classes, those 2 classes cannot meet the same program requirement. Exceptions may be made for medical or other extenuating circumstances with the approval of the Program Coordinator and Department Chair.

In order to switch tracks, students must meet with the program coordinator of both tracks. Students must also submit a new letter of intent describing their career goals and how the track will help them in their pursuit of these goals. Students will be re-evaluated for the new track based on their current class performance and new letter of intent. Students who receive approval to switch tracks must meet with an advisor from the new track to review degree requirements. Students may apply for a track change only once.
Psychology Graduate Core (18 sh)

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

Biological Bases of Behavior Core-choose one of the following:
- EXP 5208 Advanced Sensation and Perception
- EXP 5256 Human Factors Psychology (I/O only)
- PSB 5035 Cognitive Neuroscience

Social Bases of Behavior Core-Choose one of the following: 3
- PCO 6278 Multicultural Counseling (LMHC only)

SOP 6069 Advanced Social Psychology
SOP 6669 Advanced Organizational Psychology (I/O Only)

Acquired Bases of Behavior Core-Choose one of the following:
- EAB 5705 Behavioral and Cognitive Therapies
- EXP 6506 Advanced Cognitive Psychology
- INP 6325 Training and Development (I/O Only)

Individual Bases of Behavior Core-Choose one of the following:
- DEP 5055 Developmental Psychology
- INP 6216 Personnel Selection and Appraisal (I/O Only)
- PCO 6216 Theories of Individual Counseling (LMHC Only)

All students must complete:
- PSY 6217 Research Design in Psychology
And either:
- EXP 5735 Experimental and Correlational Statistics for Psychology (or)
- advisor approved elective

Total Hours 18

Toward the end of graduate work, the student must have an integrative experience consisting of 6 sh of one of the following courses:
- PSY 6917 Supervised Research 1-6
- PSY 6948 Internship 1-6
- PSY 6971 Thesis 1-6
- 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 (four Bases of Behavior (12sh), Research Design (3sh), Graduate Statistics (3sh), and an Integrative Experience (6sh)), Applied Experimental students must complete 12 hours from 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>3</td>
</tr>
<tr>
<td>EXP 6085</td>
<td>Seminar in Applied Psychological Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

* 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></td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>6</strong></td>
</tr>
</tbody>
</table>

Counseling Psychology-Licensed Mental Health Counselor

The Licensed Mental Health Counselor option is a 60 sh program with requirements comparable to the requirements established by the Florida state board for licensure as a Mental Health Counselor. Attainment of the degree does not entail conferral of the license, which is governed by the state licensing board. This degree option focuses on meeting current licensure requirements, preparing the graduate for a career as a licensed mental health counselor, and requires completion of specialty coursework and a total of 1000 hours (9 sh) of practicum/internship field placement in a mental health setting. Upon graduation from the licensure option, the individual should be in a position to qualify to register with the state licensing board as an intern and to obtain the two year post-degree supervised experience required by the board for licensure.

In addition to the 18 hours of core requirements (four Bases of Behavior (12sh - Counseling students take PCO 6216 Theories of Individual Counseling to meet Individual Bases of Behavior portion of the core, PCO 6278 Multicultural Counseling to meet the Social Bases of Behavior portion of the core), Research Design (3sh), and Graduate Statistics (3sh)), Licensed Mental Health Counseling students must complete 42 hours from 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 6248</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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>4-9</strong></td>
</tr>
</tbody>
</table>

**Elective (3 sh)**

**Licensure Courses (15 sh)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP 5055</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOP 6776</td>
<td>Human Sexuality and Sex Therapy</td>
<td>3</td>
</tr>
<tr>
<td>SDS 6345</td>
<td>Educational and Vocational Guidance</td>
<td>3</td>
</tr>
<tr>
<td>PCO 6312</td>
<td>Substance Abuse Counseling</td>
<td>3</td>
</tr>
<tr>
<td>CYP 6005</td>
<td>Community Psychology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Industrial-Organizational Psychology Concentration**

The 42 sh Industrial-Organizational (I/O) concentration combines traditional personnel psychology (selection, performance appraisal, test construction and validation, fair employment practices, and legal issues) with the more interpersonal emphasis of organizational psychology (motivation, job satisfaction, leadership, interpersonal communication, organizational diagnosis, and change). The curriculum meets the needs of students who plan to be employed at the master’s level in organizational settings as well as those who wish to pursue a doctoral program in a related field at another University.

In addition to the 24 hours of core requirements (four Bases of Behavior (12sh - I/O students take EXP 5256 Human Factors Psychology to meet the Biological Bases portion of the core, SOP 6669 Advanced Organizational Psychology to meet the Social Bases portion of the core, INP 6325 Training and Development to meet the Acquired Bases portion of the core, and INP 6216 Personnel Selection and Appraisal to meet Individual Bases of Behavior portion of the core), Research Design (3sh), Graduate Statistics (3sh)), and an Integrative Experience (6sh)), 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>
<tr>
<td></td>
<td><strong>Total Hours</strong></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

**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>Behavioral and Cognitive Therapies</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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAB 5738</td>
<td>Behavioral Medicine</td>
<td>3</td>
</tr>
<tr>
<td>CLP 4314</td>
<td>Health Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSB 5035</td>
<td>Cognitive Neuroscience</td>
<td>3</td>
</tr>
<tr>
<td>EAB 5705</td>
<td>Behavioral and Cognitive Therapies</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>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>
</tbody>
</table>

**Total Hours**: 21
Public Health, M.P.H.

The Master of Public Health provides students with a high quality, transdisciplinary perspective on public health and prepares them for diverse roles in a dynamic field. The MPH 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 (HEPB). 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 foundational courses provide students with transdisciplinary and integrated perspective in environmental health, epidemiology, social and behavioral sciences, biostatistics, health services administration, and a practicum at a public health or healthcare setting. 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 MPH Program is allied with several academic programs within the College of Health to broaden the educational opportunities available to students in the program, including Graduate Certificates in Environmental and Occupational Health (EOH), and Emergency Management and Infection Control. The certificates do not lead to industry certification. 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 Department of Public Health. The UWF MPH Program is accredited by the Council on Education for Public Health.

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 two letters of recommendation

Applicants with terminal degrees (Ph.D. or Ed.D.) or advanced professional degrees (M.D., D.D.S., D.V.M., J.D., D.O., M.S., M.A., etc.) from accredited programs and licensed in the United States may request to waive the graduate admission test requirement but must complete the other admission requirements.

Applicants with insufficient training in statistics or those who have taken a statistics course more than seven years ago may be admitted conditionally pending demonstration of proficiency in statistics within the first year in the program by taking and passing STA 2023 Elements of Statistics or equivalent prior to enrolling in PHC 5050 Biostatistics for Public Health. 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. 12) section of the current UWF Graduate Catalog for information pertaining to international applicants, including requirements for completion of, and scores on the English proficiency test. Other criteria may apply.

Degree Requirements

Students must earn and maintain an average grade of ‘B’ or better in the MPH 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 MPH program. All students 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. See our department website for additional information. Supervised MPH Practicum consisting of PHC 6945 Internship in Public Health I [3.0 credit hours] and PHC 6946 Internship in Public Health II [3.0 credit hours] for a total of 6 semester hours involving field experience in a public health-related area and submit written reflective report on the practicum experience, present conclusions and recommendations to the host agency and Departmental faculty. 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 MPH Program includes Student Learning Outcomes. Some exams in this program may require proctoring at testing sites approved by the course instructor.

The Department of Public Health offers MPH concentrations in Generalist MPH Professional, Global Health (MPH - GHLH), and Health Promotion, Education, and Behavior (MPH - HPEB).

**MPH General Practice**

The Generalist MPH 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. The program adheres to the Foundational Public Health competencies from the Council on Education for Public Health that integrate concepts for health equity, disease control and prevention. We train students to assume leadership roles as members of multidisciplinary public health teams.

**Global Health (GHLH)**

The MPH 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 foundational from the Council on Education for Public Health that integrate concepts from 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)**

Built on foundational public health competencies from the Council on Education for Public Health, the MPH in 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 all levels of the community including worksites, governmental and non-organization agencies.

**Generalist MPH**

**Foundational Core Courses (15 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>
</tbody>
</table>

**General Practice Concentration 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 5102</td>
<td>Principles of Public 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 6251</td>
<td>Disease Surveillance and Monitoring</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>

**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>PHC 6005</td>
<td>Urbanization and Population Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5442</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>BSC 5459</td>
<td>Bioinformatics and Data Science</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Prevention of Infectious Diseases</td>
<td>3</td>
</tr>
<tr>
<td>HSC 5205</td>
<td>Public Health Preparedness</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>
</tbody>
</table>

Choose one of the following:

- PHC 6310 Environmental Toxicology
- PHC 5356 Fundamentals of Industrial Hygiene
- PHC 5351 Occupational Safety and Health in the Health Care Environment
- PHC 5355 Fundamentals of Occupational Safety and Health

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

**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.
and evaluation, leadership and communication for sustainable development.

**Foundational Core Courses (15 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 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>
</tbody>
</table>

**Global Health Concentration Courses (21 sh)**

Students must complete 21 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 5442</td>
<td>Global Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6110</td>
<td>Comparative Health Systems</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6670</td>
<td>Ethical Issues in Global 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 6196</td>
<td>Applied Data Analysis in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6676</td>
<td>Public Health Response in Humanitarian Emergencies</td>
<td>3</td>
</tr>
</tbody>
</table>

**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>
</tbody>
</table>

**MPH in Health Education, Promotion and Behavior (HPEB)**

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.

**Foundational Core Courses (15 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 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>
</tbody>
</table>

**HPEB Required Courses (18 sh)**

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 6667</td>
<td>Social Marketing in Health Education</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6135</td>
<td>Health Literacy and Cultural Competency</td>
<td>3</td>
</tr>
</tbody>
</table>

**Practicum and Culminating Experience (6 sh)**

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>
</tbody>
</table>

**Electives: (3 sh)**

To be selected following consultation with your academic advisor:

Choose one of the following: 3

<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>HSC 6226</td>
<td>Current Issues in Worksite Wellness</td>
<td>3</td>
</tr>
<tr>
<td>HSC 6528</td>
<td>Prevention of Infectious Diseases</td>
<td>3</td>
</tr>
</tbody>
</table>

**Emergency Management and Infection Control Certificate**

**Department:** Public Health  
**Method of Instruction:** Online  
**Semester Hours:** 18  

**Admission Requirements**

In addition to the University graduate non-degree seeking requirements described in the Graduate Admissions section of the UWF graduate catalog, the department requires the following:
• Submission of Graduate Non-Degree Seeking Application.
• Current UWF graduate students interested in completing the graduate certificate are not required to complete the non-degree seeking application but will need to contact the MPH academic advisor to review their degree audit and initiate the declaration of certificate process.

Once admission to the University has been approved, students will need to contact the Public Health Academic Advisor to start the declaration of certificate process. This includes reviewing the requirements for each Graduate Certificate in Public Health and completion and submission of the Declaration of Certificate form to the Office of the Registrar.

Questions regarding the graduate certificate should be directed to the MPH Academic Advisor.

Course Requirements

PHC 5102 Principles of Public Health  3
PHC 6251 Disease Surveillance and Monitoring  3
BSC 5856 Bioterrorism  3
HSC 5205 Public Health Preparedness  3
HSC 6528 Prevention of Infectious Diseases  3
MCB 5273 Epidemiology of Infectious Disease  3

Total Hours  18

Environmental and Occupational Health Certificate

Department: Public Health
Method of Instruction: Online
Semester Hours: 18

Admission Requirements

In addition to the University graduate non-degree seeking requirements described in the Graduate Admissions section of the UWF graduate catalog, the department requires the following:

• Submission of Graduate Non-Degree Seeking Application.
• Current UWF graduate students interested in completing the graduate certificate are not required to complete the non-degree seeking application but will need to contact the MPH academic advisor to review their degree audit and initiate the declaration of certificate process.

Once admission to the University has been approved, students will need to contact the Public Health Academic Advisor to start the declaration of certificate process. This includes reviewing the requirements for each Graduate Certificate in Public Health and completion and submission of the Declaration of Certificate form to the Office of the Registrar.

Program Description

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

EOH Foundational Core Courses

All EOH Certificate students must complete the 3 foundational core courses [9 credit hours]

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6300</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5355</td>
<td>Fundamentals of Occupational Safety and Health</td>
<td>3</td>
</tr>
<tr>
<td>PHC 5356</td>
<td>Fundamentals of Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Non-Aerospace students

Non-Aerospace students must successfully complete the following 3 courses in addition to the foundational core courses

<table>
<thead>
<tr>
<th>Course</th>
<th>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 6251</td>
<td>Disease Surveillance and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6310</td>
<td>Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

RAM Residents

RAM residents must successfully complete the following 3 courses in addition to the foundational core courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHC 6347</td>
<td>Aerospace and Occupational Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6360</td>
<td>Accident Investigation and Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>PHC 6194</td>
<td>GIS Applications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Hours</td>
<td>9</td>
</tr>
</tbody>
</table>
Reading Education, M.Ed.

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 accredited by the Council for the Accreditation of Educator Preparation (CAEP).

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 will 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 6745</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>Applied Research</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 36

Students must also successfully pass Florida Teacher Certification Examinations:

- General Knowledge
- Professional
- Subject Area
- Reading
Social Work, M.S.W.

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 clinical social work licensure.

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
  - Miller Analogies Test (MAT)
- Minimum undergraduate institutional GPA of 3.0 is recommended
- Academic preparation as demonstrated by quality and relevance of undergraduate degree major
- Submission of a personal statement using the required Social Work Personal Statement Form
- Submission of three letter of recommendation forms 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)
- Applicants residing outside of a 60 mile radius of campus must submit the contact information for three potential field placement sites
- Submission of the MSW Criminal History Form
- Professional resume

*The graduate admission test will be waived for the following:
- Applicants who have an institutional undergraduate GPA of 3.0 or higher.

Electronic Portfolio Requirement

The University of West Florida Department of Social Work requires students to purchase an electronic portfolio. Key assessments, projects, applications for field experience, and other essential documents will be collected, processed or archived through the electronic portfolio.

It is the responsibility of each student pursuing a BSW or MSW to purchase an account to access and use the required electronic portfolio. 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.

Social Work - Traditional Program

The Traditional MSW Program is 60 semester hours (sh) and intended for students with an undergraduate degree in a field other than social work. The first 30 sh of the Traditional MSW Program is considered the foundation year curriculum. It includes a professional core of 24 sh, one elective (3 sh), and a generalist practice foundation field experience (3 sh). Students complete 300 hours generalist practice field experience in one agency over the course of one semester during the foundation year.

Students begin the concentration curriculum upon completion of the foundation curriculum. The concentration consists of 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). Students complete 600 hours of advanced clinical field experience in one agency over the course of two semesters.

Students earning less than a B in two or more courses may be terminated from the MSW program. Students must satisfactorily complete 900 hours of field experience along with the courses listed below. Students must complete the MSW degree within six years of admission to the program.

**Foundation Curriculum (30 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 5105</td>
<td>Human Behavior in the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5106</td>
<td>Human Behavior in Communities and Organizations</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</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5629</td>
<td>MSW Human Diversity and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>SOW 5757</td>
<td>The History, Philosophy, and Theory of Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective in Advanced Clinical Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

- First semester course requirement for the foundation curriculum.

**Concentration Curriculum (30 sh)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 6618</td>
<td>Clinical Practice with Individuals</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6125</td>
<td>Psychopathology for Social Work</td>
<td>3</td>
</tr>
</tbody>
</table>
Social Work - Advanced Standing Program

The Advanced Standing program is 30 semester hours (sh) and is designed for students who have earned a baccalaureate degree in social work from a CSWE accredited program within seven years of application. The Advanced Standing program is comprised of the concentration curriculum and includes a professional core of 18 sh, two electives (6 sh), and two field placements (6 sh). Students complete 600 hours of clinical field experience in one agency over the course of two semesters.

Additional Advanced Standing Admission Requirements

Only graduates of baccalaureate social work programs accredited by CSWE are eligible for advanced standing admission. In addition to the university and departmental requirements, advanced standing applicants must meet the following criteria:

- Must possess an undergraduate degree in social work from a CSWE accredited program.
- Must have earned a BSW degree within 7 years of admission to the program.
- Submit a copy of their final field evaluation (only required for applicants who received their undergraduate degree from an institution other than UWF).

Students earning less than a B- in two or more courses may be dismissed from the MSW program. Students must satisfactorily complete 600 hours of field experience along with the courses listed below. Students must complete the MSW degree within six years of admission to the program.

Advanced Curriculum (30 sh)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<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 with Families</td>
<td>3</td>
</tr>
<tr>
<td>SOW 6548</td>
<td>Capstone in Advanced Clinical 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 with Groups</td>
<td>3</td>
</tr>
<tr>
<td>Electives in Advanced Clinical Practice</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>30</td>
</tr>
</tbody>
</table>

* This is a required first semester course.
Strategic Communication and Leadership, M.A.

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 33 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 a 4.0
  - Miller Analogies Test (MAT) scaled score of at least 400
  - Graduate Management Admissions Test (GMAT) composite score of at least 400
- Minimum undergraduate institutional GPA of 3.2 on a 4-point scale
- Undergraduate degree in related field
- Submission of two letters of reference
- Submission of current curriculum vita (CV)/ résumé

* The graduate admission test will 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.

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</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Communication</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours 1.5

Major Courses

<table>
<thead>
<tr>
<th>Core Principles</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6207 Advanced Communication Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COM 6525 Strategic Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 6

Discovery Methods

<table>
<thead>
<tr>
<th>Methods</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6312 Advanced Communication Research</td>
<td>3</td>
</tr>
<tr>
<td>JOU 6115 Interviewing and Information Gathering</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 6

Strategic Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5206 Communication Training</td>
<td>3</td>
</tr>
<tr>
<td>SPC 6646 Strategic Approaches to Presentational Speaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 6

Strategic Communication Contexts (complete a total of 10.5 s.h.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5025 Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 5933 Special Topics in Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>COM 6024 Emerging Topics in Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 5527 Communication Agency</td>
<td>3</td>
</tr>
<tr>
<td>COM 6401 Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>SPC 6545 Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>COM 5146 Fundraising Communication</td>
<td>3</td>
</tr>
<tr>
<td>PUR 6937 Emerging Topics in Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ADV 6215 Emerging Topics in Advertising</td>
<td>3</td>
</tr>
<tr>
<td>COM 6210 Emerging Topics in Organizational Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 10.5

Capstone

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 6930 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>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 5025 Health Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 6207 Advanced Communication Leadership</td>
<td>3</td>
</tr>
<tr>
<td>COM 6024 Emerging Topics in Health Communication</td>
<td>1.5</td>
</tr>
<tr>
<td>Choose 4.5 Semester hours from the following</td>
<td>4.5</td>
</tr>
<tr>
<td>COM 5933 Special Topics in Communication</td>
<td>3</td>
</tr>
<tr>
<td>COM 6129 Assessing Organizational Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>COM 6210 Emerging Topics in Organizational Communication</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>COM 6525</td>
<td>Strategic Communication</td>
</tr>
<tr>
<td>JOU 6115</td>
<td>Interviewing and Information Gathering</td>
</tr>
<tr>
<td>SPC 6646</td>
<td>Strategic Approaches to Presentational Speaking</td>
</tr>
</tbody>
</table>

Total Hours 12
Course Information

In this section:
- Course Descriptions
- General Course Information (p. 137)
- Course Schedule by Semester
- Material & Supply and Equipment Fees (p. 139)

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>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

English Lower Composition at this institution Skills Skills I this course

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in 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.”

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 accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure
that credits to be accepted by a receiving institution are generated in
courses for which the faculty possess credentials that are comparable
to those required by the accrediting association of the receiving
institution. The award of credit may be limited to courses that are
entered in the statewide course numbering system. Credits awarded
pursuant to this subsection shall satisfy institutional requirements on
the same basis as credits awarded to native students.

Exceptions to the General Rule for
Equivalency

Since the initial implementation of the SCNS, specific disciplines or
types of courses have been excepted from the guarantee of transfer
for equivalent courses. These include courses that must be evaluated
individually or courses in which the student must be evaluated for
mastery of skill and technique. The following courses are exceptions
to the general rule for course equivalencies and may not transfer.
Transferability is at the discretion of the receiving institution.

1. Courses not offered by the receiving institution.
2. For courses at nonregionally accredited institutions, courses
   offered prior to the established transfer date of the course in
   question.
3. Courses in the _900-999 series are not automatically transferable,
   and must be evaluated individually. These include such courses
   as Special Topics, Internships, Apprenticeships, Practica, Study
   Abroad, Theses, and Dissertations.
5. Graduate courses.
6. Internships, apprenticeships, practica, clinical experiences, and
   study abroad courses with numbers other than those ranging from
   900-999.
7. Applied courses in the performing arts (Art, Dance, Interior
   Design, Music, and Theatre) and skills courses in Criminal Justice
   (academy certificate courses) are not guaranteed as transferable.
   These courses need evidence of achievement (e.g., portfolio,
   audition, interview, etc.).

Courses at Nonregionally Accredited
Institutions

The SCNS makes available on its home page (https://flscns.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 https://
flscns.fldoe.org/.

How to Find Courses

Please consult the Course Descriptions section of the catalog for
specific course information.
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 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.
Descriptions

ACG - Accounting: General Courses

ACG 2021  Principles of Financial Accounting
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021
Role of accounting as a tool in decision making process within economic framework of the firm.

ACG 3082  Accounting for Non-Majors
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570

ACG 3111  Intermediate Financial Accounting II
College of Business, Department of Accounting & Finance
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101
Continuation of ACG 3101.

ACG 3180  Financial Statement Analysis
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
1-12 sh (may be repeated indefinitely for credit)

ACG 4151  Accounting Theory
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
1-12 sh (may be repeated indefinitely for credit)
ACG 4941  Accounting Internship
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
1-12 sh (may be repeated indefinitely for credit)

ACG 5931  CPA Examination Review Financial Accounting and Reporting
College of Business, Department of Accounting & Finance
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 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 5932  CPA Examination Review of Regulation
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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 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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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  
College of Business, Department of Accounting & Finance  
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  
College of Business, Department of Accounting & Finance  
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  
Must have completed ACG 4651 or the equivalent with a grade of C  
(2.0) or better to enroll.

ADE 5905  Directed Study  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

ADE - Adult Education Courses

ADE 5905  Directed Study  
College of Ed and Prof Studies, Department of Instructional Design  
and Tech  
1-12 sh (may be repeated indefinitely for credit)

ADV - Advertising Courses

ADV 3000  Introduction to Advertising  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Advertising as an institution, strategy development, and creative  
extinction 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  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: (ADV 3000 OR COM 3003) AND (ADV 3216)  
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 3102  Creative Strategy and Tactics II  
Col of Arts, Soc Sci and Human, Department of Communication  
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 3202  Creative Strategy and Tactics II  
Col of Arts, Soc Sci and Human, Department of Communication  
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 4202  Creative Strategy and Tactics II  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: COM 4301 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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

ADV 6215  Emerging Topics in Advertising
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

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

AFR- Aerospace Studies Courses

AFR 1101  Heritage and Values I
College of Ed and Prof Studies, Department of Air Force
1 sh (may not be repeated for credit)
Prerequisite: AFR 1101L*

AFR 1101 is a course designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, brief history of the Air Force, introduction to leadership and leadership related issues, Air Force Core Values, Air Force officer opportunities, and an introduction to communication studies. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 1101L  Heritage and Values I Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 1101

Leadership Laboratory (LLAB) Provides an introduction to the military profession, including applications in leadership, drill and ceremony, and customs and courtesies. The focus of Initial Military Training (IMT) objectives/activities are to promote the Air Force way of life and help effectively recruit and retain qualified cadets. This time is spent acquainting cadets with basic Air Force knowledge and skills to help them determine whether they wish to continue with the AFROTC program.

AFR 1112  Heritage and Values II
College of Ed and Prof Studies, Department of Air Force
1 sh (may not be repeated for credit)
Prerequisite: AFR 1112L*

AFR 1112 is designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps. Featured topics include: overview of ROTC, special programs offered through ROTC, mission and organization of the Air Force, Air Force Core Values, an introduction to Principles of War and Tenets of Airpower, ethical decision-making and Air Force Major Commands.

AFR 1112L  Heritage and Values II Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 1112

Leadership Laboratory (LLAB) Provides an introduction to the military profession, including applications in leadership, drill and ceremony, and customs and courtesies. The focus of Initial Military Training (IMT) objectives/activities are to promote the Air Force way of life and help effectively recruit and retain qualified cadets. This time is spent acquainting cadets with basic Air Force knowledge and skills to help them determine whether they wish to continue with the AFROTC program.

AFH - African History Courses

AFH 4503  Africans in the Atlantic World
Col of Arts, Soc Sci and Human, Department of History
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 2130  Team and Leadership Fundamentals I
College of Ed and Prof Studies, Department of Air Force
1 sh (may not be repeated for credit)
Prerequisite: AFR 2130*
AFR 2130 is designed to provide a fundamental understanding of both leadership and team building. Students will apply leadership perspectives when completing team building activities and discussing things like conflict management. Students should demonstrate basic verbal and written communication skills.

AFR 2130L  Team and Leadership Fundamentals I Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 2130
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to prepare Field Training Prep (FTP) cadets for field training ensuring every cadet is mentally and physically prepared for the rigorous field training environment. FTP cadets will learn drill and ceremonies, road guard procedures, flag-raising procedures for reveille and retreat, as well as flight commander commands, positions, and movements.

AFR 2132  Team and Leadership Fundamentals II
College of Ed and Prof Studies, Department of Air Force
1 sh (may not be repeated for credit)
Prerequisite: AFR 2132L*
AFR 2132 is designed to provide a fundamental understanding of both leadership and team building. Students will apply leadership perspectives when completing team building activities, discussing conflict management, human relations, stress management and resiliency, and ethical decision-making. Students should demonstrate basic verbal and written communication skills. Cadets will apply these lessons at Field Training.

AFR 2132L  Team and Leadership Fundamentals II Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 2132
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to prepare Field Training Prep (FTP) cadets for field training ensuring every cadet is mentally and physically prepared for the rigorous field training environment. FTP cadets will learn drill and ceremonies, road guard procedures, flag-raising procedures for reveille and retreat, as well as flight commander commands, positions, and movements.

AFR 2905  Directed Study
College of Ed and Prof Studies, Department of Air Force
1-12 sh (may be repeated indefinitely for credit)

AFR 3221  Leading People/Effective Communications I
College of Ed and Prof Studies, Department of Air Force
3 sh (may not be repeated for credit)
Prerequisite: AFR 3221L*
AFR 3221 is designed to build on the leadership fundamentals taught in AFR 2132. Cadets will have the opportunity to utilize their skills as they begin a leadership role in the detachment. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and supervisor. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer type activities, giving students the opportunity to apply leadership and management principles of this course.

AFR 3221L  Leading People/Effective Communication I Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 3221
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities where Intermediate Cadet Leaders (ICL) will demonstrate leadership and management skills in supervising the cadet corps through advanced leadership experiences. The cadets will comprehend the importance of adhering to Air Force Core Values. In addition to applying leadership skills, ICL cadets will participate in objectives/activities, focused on further developing leadership and followership skills learned at field training.

AFR 3232  Leading People/Effective Communications II
College of Ed and Prof Studies, Department of Air Force
3 sh (may not be repeated for credit)
Prerequisite: AFR 3232L*
AFR 3232 is designed to build on the leadership fundamentals taught in AFR 2132. Cadets will have the opportunity to use their skills as they continue in a leadership role in the detachment. The course covers advanced leadership theory, mentoring, feedback professionalism, and organizational climate. Case studies are used to examine Air Force leadership situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer type activities, giving students the opportunity to apply leadership principles of this course.

AFR 3232L  Leading People/Effective Communication II Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 3232
Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities where Intermediate Cadet Leaders (ICL) will demonstrate leadership and management skills in supervising the cadet corps through advanced leadership experiences. The cadets will comprehend the importance of adhering to Air Force Core Values. In addition to applying leadership skills, ICL cadets will participate in objectives/activities, focused on further developing leadership and followership skills learned at field training.
AFR 4211 National Security, Leadership Responsibilities I
College of Ed and Prof Studies, Department of Air Force
3 sh (may not be repeated for credit)
Prerequisite: AFR 4211*

AFR 4211 examines the national security strategy, joint operations, Unified Combatant Commands, Air Force domains and how the Air Force deploys. Special topics of interest focus are the civilian control of the military, defense support of civil authority, command and control, and global hot spots. Within this structure, continued emphasis is given to refining communication skills.

AFR 4211L National Security, Leadership Responsibilities I Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 4211

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities where senior cadet leaders (SCL) will demonstrate leadership and management skills in supervising the cadet corps or through advanced leadership experiences. The cadets will comprehend the importance of adhering to Air Force Core Values. In addition to applying leadership skills, SCL cadets will participate in objectives/activities, focused on preparing them for active duty.

AFR 4214 National Security, Leadership Responsibilities & Commissioning Preparation II
College of Ed and Prof Studies, Department of Air Force
3 sh (may not be repeated for credit)
Prerequisite: AFR 4214L*

AFR 4214 examines professional and unprofessional relationships, base agencies, leadership authority and responsibility, military justice, and corrective supervision and counseling. Special topics include green dot refresher, religious accommodation, suicide prevention, SAPR program, officer and enlisted evaluations, and first officer assignments. Within this structure, continued emphasis is given to refining communication skills.

AFR 4214L National Security, Leadership Responsibilities II Lab
College of Ed and Prof Studies, Department of Air Force
0 sh (may not be repeated for credit)
Co-requisite: AFR 4214

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities where senior cadet leaders (SCL) will demonstrate leadership and management skills in supervising the cadet corps or through advanced leadership experiences. The cadets will comprehend the importance of adhering to Air Force Core Values. In addition to applying leadership skills, SCL cadets will participate in objectives/activities, focused on preparing them for active duty.

AFR 4905 Directed Study
College of Ed and Prof Studies, Department of Air Force
1-12 sh (may be repeated indefinitely for credit)

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

AMH - American History Courses

AMH 2010 United States to 1877
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)

Survey of the United States history beginning with Native American cultures on the eve of colonization through the end of Reconstruction. Examines political, economic, and social developments. Meets General Education requirement in Social Sciences.

AMH 2020 United States since 1877
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)

Survey of the United States history beginning in 1877 and ending with a discussion of America in the present era. Examines political, economic, and social developments. Meets General Education requirement in Social Sciences.

AMH 3540 American Military History
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)

The American military experience from the colonial era to the present, including causes, conduct, and consequences of wars in American history, civil-military relations, and technology.

AMH 4111 Colonial America
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)

History of British Colonial America (1585 - 1776): founding of the colonies; development of economic, social, and political structures; the maturing of the colonies; and background to the American Revolution.

AMH 4131 American Revolutions, 1763-1828
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)

The social, economic and political histories of the American, Spanish-American and Haitian revolutions between 1763 and 1828.

AMH 4170 The American Civil War
Col of Arts, Soc Sci and Human, Department of History
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 conduct of the American Civil War (or 'War Between the States'). More specifically, after completion of the course students should better comprehend: - why the war occurred; - the strategic goals of the North and South; - the advantages/disadvantages facing both belligerents - the military campaigns/conduct of the war 1861-1865 - the differences between Northern and Southern war experience; - how the war affected life on the home-front; - the reasons for the ultimate triumph of the Union; - the social, economic, political, and scientific consequences of the war; - the international significance of the war. -The Civil War in society and culture today Course activities consist of lectures, films, class reading assignments, research papers, quizzes and examinations.
AMH 4375 Inventing the Future: The History of American Technology
Col of Arts, Soc and Human, Department of History
3 sh (may not be repeated for credit)
Explores the history of technological change in the United States from the period of industrialization to the digital age.

AMH 4380 Disaster in North American History
Col of Arts, Soc Sci and Human, Department of 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. Meets Gordon Rule Writing Requirement.

AMH 4420 History of Florida
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Pre-Columbian to present; social, economic, and political development.

AMH 4427 Florida Panhandle History
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Exposes students to the diverse history of that section of Florida bounded in the west by the Perdido River and in the east by the Apalachicola River - the Florida Panhandle.

AMH 4442 The American West
Col of Arts, Soc Sci and Human, Department of History
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 4575 Civil Rights
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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 4644 graduate students will be assigned additional work.

AMH 5646 Civil Rights and Hollywood
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
1-12 sh (may be repeated indefinitely for credit)

AMH 6116 Colonial America
Col of Arts, Soc Sci and Human, Department of History
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 6137 Revolutionary America
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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 6905 Directed Study
Col of Arts, Soc Sci and Human, Department of History
1-12 sh (may be repeated indefinitely for credit)

AML - American Literature Courses

AML 2010 American Literature I
Col of Arts, Soc Sci and Human, Department of English
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

AML 3604  African American Literature  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
This is a discussion and collaborative group work course in which literary texts from various genres including slave narratives, dramas, short stories, novels, poetry, and the nonfiction essay will be used to reveal how complicit the factors of race, gender, sexuality, nationality, class, and the ‘divided self’ are in the African-American experience. Attendance and participation in the interactive classroom discussions and in-class and out-of-class group work are crucial to a student's success in the class. Meets Multicultural Requirement.

AML 3624  Black Women Writers  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

AML 4014  Topics in Early American Literature  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Thematic approaches to the New World and early American literature, from the time of the Spanish conquest through the American Revolution and the early Republic. Topics vary according to faculty expertise and research interests.

AML 4015  Topics in Nineteenth-Century American Literature  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Explores themes in nineteenth-century American literature, from the Romantics through realism and early modernism. Emphasizes new critical approaches and the racial, ethnic and cultural diversity of American literature. Topics vary according to faculty expertise and research interests. Meets Multicultural Requirement.

AML 4054  Topics in Twentieth-Century and Contemporary American Literature  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Thematic approaches to twentieth-century and contemporary American literature, from modernism through the present. Studies literature in relation to artistic and social movements of the past century. Topics vary according to faculty expertise and research interests.

AML 4302  Single Author Seminar, American Literature, 1700 to the Present  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Prerequisite: ENG 3010  
This course is designed to give students an in-depth view into American Literature through detailed study of the work of a single canonical author. Extended study of the oeuvre of a single author gives students insight into not only specific moments of history and the overall scene of publishing/literature, but also how a specific author's style and treatment of themes develop over time.

AML 4640  Topics in Native American Literature  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
This course examines the history, form, and cultural context of Native American literature using a variety of texts and genres. Oral traditions, material culture, and written texts will be considered. Works by Native American authors will be examined in their own right, and in relation to texts by non-native writers. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

AML 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

AML 5905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

AML 6455  Topics in American Literature  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may be repeated for up to 12 sh of credit)  
Studies in major figures or movements in American literature. Topics change each term. See department or instructor for specific topic.

AML 6506  Topics in American Literature to 1900  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
This course examines canonical and non-canonical texts of early American literature. Emphasis on specialized study of one or more selected authors or genres. Theoretical and critical approaches current in the field will be stressed. In close consultation with the professor, students will produce a substantial body of written work reflecting their own research interests.
AML 6507  Topics in American Literature 1900-Present
Col of Arts, Soc Sci and Human, Department of English
3 sh (may not be repeated for credit)
This course examines canonical and non-canonical texts post-1900 American literature. Emphasis on specialized study of one or more selected authors or genres. Theoretical and critical approaches current in the field will be stressed. In close consultation with the professor, students will produce a substantial body of written work reflecting their own research interests.

AML 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

AMS-American Studies Courses

ANG - Anthropology: Graduate Courses

ANG 5001  Archaeological Field Survey
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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 5172  Historical Archaeology Seminar
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
A practical introduction to the use of historical documents in archeological research, both as primary sources of data for understanding the past, and as a complement to archaeological and other types of data. Examples and case-studies will center on the history of Florida during Spanish, British, and early American periods.

ANG 5181  Geographic Information Systems in Archaeology
Col of Arts, Soc Sci and Human, Department of Anthropology
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 5191  Ritual Use of Human Remains
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Ritual Use of Human Remains explores human mortuary practices and other ritual uses of bones, bodies, and body parts across the world and through time. Utilizing archaeological and ethnographic data from the New World (North America, South America, Mesoamerica, and the Caribbean), Old World (Africa, Asia, Europe, and the Near East), and Polynesia, the course introduces students to a diversity of ritual practices and outlines the theoretical concepts underlying their interpretation. Course material will be presented in lecture format, supplemented by in-class discussions and team-based activities. Graduate student grades are based on two (2) non-cumulative exams, two (2) in-class essays, one (1) research paper, one (1) annotated bib, one (1) presentation, one (1) discussion-leader assignment, and in-class participation. One textbook is required, and multiple non-textbook required readings are provided on the course website. Offered concurrently with ANT 4191, Graduate students will be assigned additional work.

ANG 5408  Disease and Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Overview of the fossil evidence for human evolution, and hominin behavioral reconstruction using ethnoarchaeological and primate models. Offered concurrently with ANT 4586; graduate students will be assigned additional work.

ANG 5516  Modern Human Physical Variation
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
0 sh (may not be repeated for credit)
Co-requisite: ANG 5520
Corresponding lab for Human Osteology.

ANG 5536  Bioarchaeology
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

ANG 6002  Proseminar in Anthropology
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may be repeated for up to 6 sh of credit)
Examines selected subjects in anthropology using the perspectives of all three sub-disciplines; cultural anthropology, biological anthropology, and archaeology. The seminar's goals are to introduce students to the subject, provide in-depth understanding of current issues, and examine the variety of theoretical and methodological approaches used by anthropologists. Contact department for specific topic each semester offered. No more than 6 semester hours credit may be received.

ANG 6093  Research Design in Anthropology
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
The fundamental issues of research design and implementation and the objectives and strategies of contemporary anthropological research. Scientific procedures and methods in the development of research programs that are logically structured and fundable. Alternative forms of deriving knowledge relating to important issues in epistemology and the philosophy of science will also be discussed.
ANG 6110  Advanced Method and Theory in Archaeology Seminar
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Includes an overview of the history and development of American archaeology with an emphasis on methodological and theoretical topics. Class is an organized seminar with readings and discussions of specific topics.

ANG 6183L  Advanced Laboratory Methods in Archaeology
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Advanced training in the operation of an archaeological laboratory. Activities include laboratory organization and management as well as planning laboratory activities to meet deadlines, assignment of tasks, training, and supervising beginning students. Graduate students will instruct undergraduate students in artifact identification and documentation. Credit may not be received in both ANG 6183L and ANG 6823L.

ANG 6196  Policies, Practices and Archaeology in Historic Preservation
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Legislation and regulations concerning cultural resources and the historic preservation system. Also covers compliance archaeology, contract archaeology, ethics, collecting, looting and the role of Native Americans and ethnic groups.

ANG 6286  Contemporary Cultural Anthropological Theory
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Through readings and seminar discussion, students will explore key themes and thinkers of the past few decades which have contributed to the production of contemporary culture theory in anthropology. Important topics will include structuralism, cultural materialism, feminism and anthropology, post-modernism, world systems theory, post-colonialism, and symbolic anthropology. Key theorists will include Claude Levi-Strauss, Marvin Harris, Mary Douglas, Clifford Geertz, Sherry Ortner, Gayle Rubin, Pierre Bourdieu, Arjun Appadurai, and James Clifford.

ANG 6583  Evolutionary Theory in Biological Anthropology
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human bio-cultural evolution.

ANG 6824  Advanced Archaeological Field Methods
Col of Arts, Soc Sci and Human, Department of Anthropology
3-6 sh (may not be repeated for credit)
Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

ANG 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

ANG 6971  Anthropology Thesis
Col of Arts, Soc Sci and Human, Department of Anthropology
1-6 sh (may be repeated for up to 6 sh of credit)
Preparation of master's thesis which includes problem identification, review of literature, design, data collection, analysis, and results. Permission of Thesis Committee required. Graded on satisfactory / unsatisfactory basis only.

ANT-Anthropology Courses

ANT 1138  Introduction to Maritime Studies
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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. Meets Multicultural Requirement.

ANT 2100  Introduction to Archaeology
Col of Arts, Soc Sci and Human, Department of 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 2301  Human Sexuality and Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
This course examines human sexuality from an anthropological perspective, which focuses on the diversity of experiences, beliefs and practices of sexuality across cultures and over time, including our evolutionary history. Using a critical lens, this course addresses cultural and biological dimensions of sex, gender, and sexuality, and engages with issues inclusivity, safety, and sexual and reproductive health. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ANT 2400  Current Cultural Issues
Col of Arts, Soc Sci and Human, Department of Anthropology
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  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1 sh (may not be repeated for credit)  
Lab corresponding with ANT 2511.

ANT 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  

ANT 3015  Forensics in the Media  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Provides students with relevant learning experiences focusing on the  
standard methods and techniques of forensic science and how it  
is inaccurately portrayed in popular media. Dispels CSI related myths  
in popular media, while learning about the multidisciplinary science  
behind real crime scene investigations.

ANT 3101  Principles of Archaeology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Detailed explanation of the principles and methodology of current  
archaeology in U.S.; includes a brief history and theoretical orientation  
development of American archaeology.

ANT 3137  Shipwreck Archaeology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Introductory course in Underwater Archaeology with an emphasis  
on American Maritime History and New World Archaeology as they  
relate to Pensacola’s maritime heritage. The format centers on  
assigned readings and classroom meetings with lectures, discussions,  
educational slides and videos, and workshops. An attempt is made to  
incorporate field activities on at least one occasion.

ANT 3141  Origins of Civilization  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Cultural processes leading toward civilization and theories explaining  
the emergence of civilization. Comparison of the early civilizations of  
Mesopotamia, Egypt, India, China, Mesoamerica, and Peru.

ANT 3153  North American Archaeology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Overview of archaeology of North America. Emphasis on patterns of  
development of regional cultures based on the archaeological record.  
Open to students in all majors.

ANT 3158  Florida Archaeology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Archaeology of Florida with emphasis on general patterns of  
development of Florida Indians. Field trips to area archaeological sites.

ANT 3212  Peoples and Cultures of the World  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Culture areas of the world and frameworks for cultural comparison.  
Detailed study of representative peoples around the world gives  
emphasis to non-Western societies and the reporting tool of  
ethnography. Meets Multicultural Requirement.

ANT 3241  Anthropology of Religion  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Connections of religion with the social organization, behavioral  
systems, and technology of traditional peoples outside the world  
of Western monotheism. Emphasis on animistic symbolism,  
shamanism, traditional metaphors for deities, and prehistoric, historic,  
or ethnographic accounts of ritual systems.

ANT 3311  Indians of the Southeast: An Anthropological  
Perspective  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Southeastern Indians is a survey course of the Native American  
groups in the Southeastern U. S. and their culture. It begins with  
an overview of prehistory and continues into the early 19th century.  
Examines such key areas as sociocultural archaeology, archaeology,  
biological archaeology, and history. Credit may not be received in both  
ANT 3311 and ANT 3317.

ANT 3312  North American Indians  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Past and present life styles of the diverse Native American cultures  
north of Mexico; discussion of the major culture areas with emphasis  
upon Indians of the Southeastern United States. Meets Multicultural  
Requirement.

ANT 3352  African Cultures  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
An introduction to African culture and society. Examination and  
analysis of the social foundations, beliefs, practices, and institutions  
that make up the rich and unique cultural values of the African people.  
The aim is to broaden students’ awareness of the beliefs, practices,  
and institutions that make up the cultural values of the African people.  
Attention will be given to pre-colonial years with an overview of the  
post-colonial era.
ANT 3363  Japanese Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Basic introduction to the distinctive cultural heritage of the Japanese people. A brief overview of key historical events, fundamental philosophical tenets and basic religious beliefs form the background for exploring the prevalent customs, lifestyles and business practices in Japan today. Meets Multicultural Requirement.

ANT 3403  Cultural Ecology
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Interactions between human cultures and the natural and social environment. Stress is placed on the adaptive aspect of human culture and the maintenance or disruption of the ecosystem. Meets Multicultural Requirement.

ANT 3520  Forensic Anthropology
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Introduces students to the basic principles of forensic anthropology, and to current methods of determining personal identity, manner and cause of death, elapsed time since death, and other relevant information from skeletonized remains.

ANT 3610  Language and Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Introduction to linguistic principles as they relate to the study of culture. Discussion of origins and nature of language. Direct applications of linguistic concepts in anthropological structure analyses and ethnography. Credit may not be received in both ANT 3610 and ANT 3620.

ANT 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

ANT 4006  Anthropology of Human Rights
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department 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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Prehistory of the Southeastern United States including chronology, ways of life and the evolution of cultural adaptations for the past 15,000 years. Field trips to archaeological sites and museums will be conducted.

ANT 4172  Historical Archaeology
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Prerequisite: (ANT 2000 AND ANT 3101) OR ANT 4824
Introduction to the basic methods of processing, classifying, coding and analysis or archaeological material. Hands-on laboratory methods are taught utilizing collections from recent field school and project excavations. These materials may include European, Mexican, and Native American ceramics, glass, metal, lithics, masonry, plants, and faunal remains.

ANT 4182C  Conservation of Archaeological Materials
Col of Arts, Soc Sci and Human, Department of Anthropology
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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 4191  Ritual Use of Human Remains  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Ritual Use of Human Remains explores human mortuary practices and other ritual uses of bones, bodies, and body parts across the world and through time. Utilizing archaeological and ethnographic data from the New World (North America, South America, Mesoamerica, and the Caribbean), Old World (Africa, Asia, Europe, and the Near East), and Polynesia, the course introduces students to a diversity of ritual practices and outlines the theoretical concepts underlying their interpretation. Course material will be presented in lecture format, supplemented by in-class discussions and team-based activities. Grades are based on two (2) non-cumulative exams, two (2) in-class essays, one (1) research paper, and in-class participation. One textbook is required, and multiple non-textbook required readings are provided on the course website. Offered concurrently with ANG 5191. Graduate students will be assigned additional work. Meets Multicultural Requirement.

ANT 4191C  Archaeological Data Analysis  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Focuses on the methods and techniques of analysis of archaeological data which is an essential step in the interpreting of data. The analytical techniques of archaeological data include construction and use of spread sheets, digital image development and manipulation, map making, data base construction, management, and querying. Geographic Information Systems (GIS) and computer assisted drawing (CAD) will also be introduced. Windows applications for the personal computer are used to perform these analyses.

ANT 4247  Anthropology of the Bible  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Social and cultural interpretation of the scriptures pertinent to Hebrew / Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through the 4th century CE. Students will read the assigned texts from the Torah, the Hebrew Bible generally, the Dead Sea Scrolls, the Christian canon, and the scriptures of the Naj Hammadi library. Offered concurrently with ANG 5247; graduate students will be assigned additional work. Credit may not be received in both ANT 4247 and ANT 4174.

ANT 4322  Mesoamerican Cultural Traditions  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANG 5322; graduate students will be assigned additional work.

ANT 4451  Race, Ethnicity, and Culture  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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 5516 (Modern Human Physical Variation); graduate students will be assigned additional work.

ANT 4523  Field Methods in Forensic Anthropology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Prerequisite: ANT 3101 AND ANT 4525/L  
On-site training in forensic field methods for the location, documentation, and recovery of human skeletal remains from surface and buried contexts. Includes use of surveying equipment and hand excavation tool. Permission is required.

ANT 4302  Sex Roles in Anthropological Perspective  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Female and male behavioral, social and biological similarities and differences viewed from a biological-cultural perspective. Emphases upon evolution and cross-cultural comparison.
ANT 4525  Human Osteology
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
0 sh (may not be repeated for credit)
Co-requisite: ANT 4525
Corresponding lab for Human Osteology.

ANT 4532  Disease and Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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 ANG 5536; graduate students will be assigned additional work. Pre requisite: ANT 2511/L minimum grade C.

ANT 4537  Food, Biology and Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
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 ethnographic and primate models. Offered concurrently with ANG 5514; graduate students will be assigned additional work.

ANT 4651  Aesthetics & Critical Theory
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
Experiential and anthropological/semiotic examination of the topic of aesthetics as a central foundation of human culture. Students encounter working artists and scholars, engage Western and non-Western systems of aesthetic value, develop tools for several kinds of postmodern cultural criticism, and explore personal constructions of aesthetics and cultural studies. Permission is required.

ANT 4803  Ethnographic Research Methods
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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 4836  Scientific and Research Diving  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
The Scientific Diving course would involve interdisciplinary instruction in both classroom and the field designed to give students an understanding on how to conduct scientific research safely in the underwater environment. Specific topics are based on the NOAA Diving Manual, and will include the history of scientific diving, diving physiology, approaches to scientific/research diving, background on different scientific diving methodologies, dive planning for scientific research, scientific diving in different environments, applications for underwater research, survey methods, data retrieval, site selection, underwater navigation, search and recovery techniques, instrument implementation, diving accident management and emergency procedures. Offered concurrently with ANG 5836. Graduate students will be assigned additional work.

ANT 4853C  Geographic Information Systems in Anthropology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
3 sh (may not be repeated for credit)  
Application of Geographical Information Systems technology in anthropology, archaeology and cultural resource management.

ANT 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for 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  
College of Health, Department of Movement Sciences and Health  
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 and Physiology I with Laboratory  
College of Health, Department of Movement Sciences and Health  
4 sh (may not be repeated for credit)  
This class is the first of a two-semester sequence which provides a comprehensive study of human anatomy and physiology from a systematic approach. Topics include the structure, function, and interrelationship of organ systems with an emphasis on the processes which produce movement and maintain homeostasis. Understanding anatomical terminology, gross structures, and locations of different body structures are primary objectives. Upon completion, students should be able to demonstrate an in-depth understanding of the principles of anatomy and physiology and their interrelationships. This course is designed for students interested in pursuing study in the health professions.
APK 2105C    Applied Human Anatomy and Physiology II with Laboratory
College of Health, Department of Movement Sciences and Health
4 sh (may not be repeated for credit)
Prerequisite: APK 2100C

This course is the second of a two-semester sequence of the study of the structure, function, and homeostasis of the human body. The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary and reproductive systems, as well as the concepts of development, metabolism, fluid and electrolyte balance, acid-base balance, and the ability to apply these in novel situations are included. Upon completion, students should be able to demonstrate an in-depth understanding of the principles of anatomy and physiology and their interrelationships. This course will encourage students to consider how physiological systems are dependent on each other, and develop the ability to apply this understanding in novel case-based situations. This course will provide a sound basis in human anatomy and physiology to support further study in health and medical sciences, or related fields.

APK 3110    Exercise Physiology
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: (CHM 2045/L) AND (APK 2105C OR BSC 1086/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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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, accelerometer, and force plates. Students will gather data necessary to complete a condensed research project.

APK 3232    Measurement and Evaluation in Health, Leisure, and Sports
College of Health, Department of Movement Sciences and Health
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 3232L    Measurement and Evaluation in Health, Leisure, and Sports Laboratory
College of Health, Department of Movement Sciences and Health
1 sh (may not be repeated for credit)
Co-requisite: APK 3232

Chains 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 APK 4119.

APK 4125    Exercise Testing and Prescription
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L

Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class.

APK 4125L    Exercise Testing and Prescription Laboratory
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: (HUN 2201 OR HUN 1201 OR HSC 2577) AND (APK 3110/L OR PET 3351C)
Students will examine the 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
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: PSY 4832 OR APK 3232 OR APK 4901
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for 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 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 4901  Research Methods in Exercise Science
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
6 sh (may not be repeated for credit)
Prerequisite: APK 4114C AND APK 4119 AND APK 4944
Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development.

APK 4944  Exercise Science Practicum
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L AND APK 4114C* AND APK 4119* AND APK 4125/L
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
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: (HUN 2201 OR HUN 1201 OR HSC 2577) AND (APK 3110/L OR PET 3351C)
A laboratory practicum course for evaluation, review, and mastery of the competencies required per ACSM guidelines and CAAHEP accreditation standards.
APK 5702  Statistics in Exercise Science  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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.

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

APK 6940  Internship in Exercise Science  
College of Health, Department of Movement Sciences and Health  
3-6 sh (may be repeated for up to 6 sh of credit)  
This course provides opportunities for graduate students to complete an internship in an agency or organization directly related to the exercise science discipline for the purpose of gaining necessary 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 comprehensive exam on topics related to exercise science. Permission is required.

APK 6970  Research for Master's Thesis  
College of Health, Department of Movement Sciences and Health  
3-6 sh (may be repeated for up to 6 sh of credit)  
Graded on satisfactory / unsatisfactory basis only. Permission is required.  
* This course may be taken prior to or during the same term.

ARA-Arabic Language Courses

ARA 1120C  Beginning Arabic and Language Culture I  
Col of Arts, Soc Sci and Human, Department of Government  
4 sh (may not be repeated for credit)  
Designed for students with no experience in the Arabic language to develop knowledge through listening, speaking, reading, and writing Modern Standard Arabic. Focuses primarily on cultural understanding of the Arabic world, and basic Arabic language pronunciation, comprehension, communication, and grammar. In addition to the scheduled activities, students are required to complete weekly laboratory assignments.

ARA 1121C  Beginning Arabic and Language Culture II  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
4 sh (may not be repeated for credit)  
Prerequisite: ARA 1121C  
Continuation of ARA 1121C with increased complexity of grammatical constructions, greater emphasis on reading and writing and increased use of authentic materials. Some of the cultural information will be given in Arabic.
ARE-Art Education Courses

ARE 3905 Directed Study
Col of Arts, Soc Sci and Human, Department of Art and Design
1-12 sh (may be repeated indefinitely for credit)

ARE 4905 Directed Study
Col of Arts, Soc Sci and Human, Department of Art and Design
1-12 sh (may be repeated indefinitely for credit)

ARH-Art History Courses

ARH 1000 Art Appreciation
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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 3150 Ancient Roman Art and Architecture
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Explores the development of art and architecture of ancient Rome, from its foundation to the breakup of the empire and the death of Constantine. Important works, sites, and architectural achievements will be studied within the context provided by history, archaeology, literature, and ideology.

ARH 3255 Medieval European Visual Culture
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
This course will survey the development of the visual arts in western Europe in the period 4th century into the early 15th century. The formation of a distinctive medieval European visual culture will be considered through the study of selected objects and translated primary sources. The development of European aesthetic principles will be studied in the context of the regional centers of the British Isles, France, the Holy Roman Empire, Southern Europe, and Iberia. Meets Gordon Rule Writing Requirement.

ARH 3301 Early European Renaissance
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
This course will examine the visual arts in western Europe from the 14th to the 15th century. Through a variety of visual and translated written sources, we will actively reconsider the idea of the Renaissance visual culture outside of the long-standing paradigms of the Italian and Northern Renaissance. The effect of cultural exchange will be considered against the formation of increasingly regional identities, and the influence of changing economic, social, political, and ideological conditions. Meets Gordon Rule Writing Requirement.

ARH 3303 Late European Renaissance
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
This course will examine the visual arts in western Europe from the 15th to the 16th century. Through a variety of visual and translated written sources, we will actively reconsider the idea of the Renaissance visual culture outside of the long-standing paradigms of the Italian and Northern Renaissance. We will sample a variety of media produced in major centers of artistic production. Special consideration will be given to the continued process of artistic exchange within Europe, as well as the lasting influence of new discoveries and broadened cultural contacts. Meets Gordon Rule Writing Requirement.

ARH 3350 Baroque Art and Architecture
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Examines the work of major artists from the period from within regional social and cultural contexts, as well as European and worldwide cultural contacts. Major works of art will be considered in context with notions of religion, morality, humor, and history. Meets Gordon Rule Writing Requirement.

ARH 3590 Non-Western Art
Col of Arts, Soc Sci and Human, Department of Art and Design
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 3606 Native American Art
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Prerequisite: ARH 3590
This course examines the history of Native North American art from its prehistory to the present. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 3621 American Art
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
A comprehensive survey of American painting, sculpture, and architecture from the seventeenth century to the third quarter of the twentieth century. Meets Gordon Rule Writing Requirement.
ARH 3724  History of Graphic Design  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
An analysis of the history of Graphic Design from its inception through its current role in contemporary society. Explores the historical relationship between graphic design and additional design disciplines such as: fashion, architecture, industrial, furniture and digital media design. Meets Gordon Rule Writing Requirement.

ARH 3871  Women in Art  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Investigates the history and issues surrounding the roles of women in the visual arts: women as artists, models, subjects, and patrons. Explores differences in the portrayal of women by both women and men artists. Includes assessment of women's themes, materials, critical theory, and cultural identities. Meets Gordon Rule Writing Requirement.

ARH 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1-12 sh (may be repeated indefinitely for credit)

ARH 4302  Late Renaissance Art in Italy  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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 in Europe: 1750-1850  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2050 AND ARH 2051  

ARH 4417  Art and Science in the Nineteenth Century  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 2051  
This course considers topics and ideas in the representation of emergent scientific theories of the nineteenth century and the complex entanglement of artistic and scientific imagery. Meets Gordon Rule Writing Requirement.

ARH 4450  Modern Art: 1850-1980  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  

ARH 4563  Art of Japan  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Major works of art from Japanese history will be explored within their social, political, and ideological contexts. Students will gain a broad knowledge of the important developments in Japanese visual culture. The course covers the time period ranging from the Neolithic to Contemporary. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

ARH 4710  History of Photography  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
The history of photography and how it documents, relates to, reflects, and shapes history, culture and the arts. Offered concurrently with ARH 5715; graduate students will be assigned additional work.

ARH 4830C  Museum and Gallery Studies  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Examines in depth the theoretical and practical aspects of museum / gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 5836; graduate students will be assigned additional work. Credit may not be received in both ARH 4830C and ARH 3830C.

ARH 4835  Museum and Gallery Studies Practicum  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: ARH 4830C  
Advanced study of theoretical and practical aspects of museum / gallery management through placement in a non-profit museum or gallery. Students participate in full range of activities available in the setting, but are also expected to complete a specific museum / gallery project. Offered concurrently with ARH 5947; graduate students will be assigned additional work. Permission is required.

ARH 4892  Inscribed Bodies: Concepts of Tattoo and Body Art in World History  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Explores the history of body art, from its association with prehistoric non-western cultures to contemporary artistic expression. Topics include: tattoo, piercings, body modification, adornment, conceptions of beauty, status, power, and identity. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.
ART 1001C  Studio Art for Beginners
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may be repeated for up to 6 sh of credit)
This course is designed as an introduction to diverse studio art practices and disciplines that potential art majors will need, including portfolio development. Students can have general 'high-school' level experience with studio art but this isn't necessary. A sampling of Painting, Drawing, Ceramics, and Print Making will be studied through discussion and studio practice. Students will also begin developing their own portfolios for critique.

ART 1015C  Exploring Artistic Vision
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C
Continuation and further development of the studies in ART 1300C. Material and supply fee will be assessed.

ART 2201C  Two-Dimensional Design
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Introduction to the concepts by which shape, value and color control space; ideas fundamental to the visual arts. Invites all students. Material and supply fee will be assessed.

ART 2203C  Three-Dimensional Design
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Designed to provide the beginning art major with a firm grounding in the technical strategies needed to create forms in space. Material and Supply Fee will be assessed.

ART 2400C  General Printmaking
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Introduction to various printmaking techniques possibly including block printing, calligraphy, monotype, etching and engraving. Content varies according to instructor. Prerequisite for all other printmaking courses. Invites all students. Material and Supply Fee will be assessed.

ART 2500C  Painting I - Fundamentals
Col of Arts, Soc Sci and Human, Department of Art and Design
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  The Self, Creativity, Your Career and Visual Culture  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
This class is designed to teach students abstract and creative thinking through the dynamics of visual culture. Incorporated into the course are the ways we process and read the visual world that surrounds us. Students will explore theories of cognition and creativity. Although this course is based in theoretical constructs, the practice of High Impact Learning experiences will be utilized in order to apply creative thinking in the major field of study students are pursuing. Ultimately, students will learn how to apply the creative method to a diverse array of disciplines, helping to foster entrepreneurship in their chosen career paths. Meets General Education requirement in Humanities.

ART 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1-12 sh (may be repeated indefinitely for credit)  
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C  

ART 3213C  Advanced Ideas and Concepts  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ART 1300C AND ART 1301C AND ART 2201C  
Requires essential education in drawing the human figure, whose accurate visualization remains a vital component of all artistic media and practice. Builds on the foundation art courses in drawing and two dimensional-design, which are necessary prerequisites. Material and Supply Fee will be assessed.

ART 3313C  Drawing for Non-Majors  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3504C  
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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 are explored through regular critiques, readings, and screenings. Students will produce and critique artworks using HTML, scripting, and software-based site production for the web. Material and Supply Fee will be assessed.

ART 3630C Artist's Video
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ART 2602C
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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 3661C Interactive Electronic Art
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2602C
Introduction to microcontrollers, electronics, and coding in the development of interactive objects and environments for artists and designers. Issues addressed include accessibility, usability, interface development, product design, fabrication, etc.

ART 3714C Advanced Sculpture: Exploring Materials
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2203C AND ART 3760C
Introduction to hand-building techniques. Students will be introduced to wheel throwing and slab building methods. Material and Supply Fee will be assessed.

ART 3762C Ceramics: Wheelthrowing
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1-12 sh (may be repeated indefinitely for credit)  

ART 3930  Special Topics in Painting and Drawing  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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 3950  Junior Portfolio Review  
Col of Arts, Soc Sci and Human, Department of Art and Design  
0 sh (may not be repeated for credit)  
Prerequisite: ARH 2050 AND ARH 2051 AND ART 2201C AND ART 2203C AND ART 2300C AND ART 2301C AND ART 3213C  
A required pass/fail evaluation of the student's critical and technical skills essential for successful completion of Bachelor of Fine Arts programs in Studio Art and Digital Art. The Junior Portfolio Review is required for those students pursuing the Studio Art B.F.A. or the Digital Art B.F.A. This is typically taken at the end of the sophomore or beginning of the junior year. Passing this review is required for enrollment in upper division courses and BFA Senior Seminar I and II. Students must be enrolled in or have completed (with a 'C' or better) the required pre-requisites below. Students who are enrolled in one or more of the prerequisite course(s) in the semester applying for portfolio must submit an unofficial transcript at the end of the semester showing a grade of 'C' or better in the course. Students who do not pass the review may retake the review. Transfer students who are not currently enrolled at UWF must submit an unofficial transcript before enrolling in the section.

ART 4161C  New and Mixed Media: Personal Directions  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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 4332C  Drawing IV - Advanced  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3312C  
While there is a continuation of the development of many of the concepts of drawing from ART 3312C, this course is dedicated to the study of life drawing concepts. The human figure will be the primary subject matter. Extensive experimentation and exploration of drawing media use in relation to the figure will be stressed. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both ART 4332C and ART 4320C.

ART 4333C  Drawing V - Advanced  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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 4506C  Painting IV-Advanced  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3618C

This course is designed for seniors in the Graphic Design BA and Digital Art BFA programs pursuing self-initiated and self-directed projects. Projects may include the development of a single (or sequential) large-scale artwork, the further development of projects begun at the lower level for inclusion in the senior portfolio, and/or design and development of the senior exit show and/or senior design portfolio. Students' proposals must be approved by the instructor at least two weeks before the start of the semester. May be designated a capstone experience. Permission is required. Material and Supply Fee will be assessed.

ART 4633C  Advanced Interactive Electronic Art  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3681C AND ART 3950

Advanced practice and development using microcontrollers, electronics, and coding of interactive objects and environments for artists and designers. Issues addressed include accessibility, usability, interface development, product design, fabrication, etc.

ART 4712C  Sculpture: Personal Directions  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: ART 3764C

Focused research into advanced specialized sculptural processes not normally covered within the normal sculpture course offerings. Processes covered are dependent upon direction of work. Contemporary art concepts are an integral part of this class. For advanced upper-level students only. May be designated a capstone course. Material Supply fee will be assessed.

ART 4787C  Ceramics: Personal Directions  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may be not 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 4801C  BFA Senior Seminar I  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ART 3950

This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Senior Seminar II in regard to key critical terms and topics widely used and discussed in Art practice and theory. Activities are designed to provide a guided inquiry into each student's own art practice and to support the completion of a body of work and critical writings required for the BFA Exit Exhibition. Prerequisites: Departmental permission required.

ART 4891C  BFA Senior Seminar II  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ART 4801C

This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Senior Seminar I in regard to key critical terms and topics widely used and discussed in Art practice and theory. Activities are designed to provide a guided inquiry into each student's own art practice and to support the completion of a body of work and critical writings required for the BFA Exit Exhibition. Prerequisites: Departmental permission required.

ART 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1-12 sh (may be repeated indefinitely for credit)

ART 4936C  BFA Professional Seminar I  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1 sh (may not be repeated for credit)

This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Professional Seminar II and BFA Professional Seminar III 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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1 sh (may not be repeated for credit)  
Prerequisite: ART 3950

This is a seminar course designed to provide an advanced progression of work/projects associated with BFA Professional Seminar I and BFA Professional Seminar III 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 4938C  BFA Professional Seminar III  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
1-12 sh (may be repeated indefinitely for credit)
ART 6905 Directed Study
Col of Arts, Soc Sci and Human, Department of Art and Design
1-12 sh (may be repeated indefinitely for credit)

ASC-Aviation Science: General Courses

ASH-Asian History Courses

ASL-American Sign Language Courses

ASL 1140C American Sign Language I
Col of Arts, Soc Sci and Human, Department of Government
4 sh (may not be repeated for credit)

AST-Astronomy Courses

AST 1002 Descriptive Astronomy
College of Sci and Engineering, Department of Physics
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 3222 Introduction to Astrophysics
College of Sci and Engineering, Department of Physics
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
College of Sci and Engineering, Department of Physics
1-12 sh (may be repeated indefinitely for credit)

ATR-Athletic Training Courses

ATR 2000 Basic Care and Prevention Principles of Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

ATR 2010 Advanced Prevention and Care of Injuries in Health, Leisure, and Sports
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

ATR 3104 Protective Methods in Sports Medicine
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

ATR 3132 Functional Kinesiology
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 AND PHY 2048

ATR 3212 Evaluation Techniques of Athletic Injuries I
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 2010

ATR 3302C Therapeutic Modalities in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Prerequisite: ATR 2010

ATR 3512 Management Strategies in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
ATR 3812 Athletic Training Clinical I
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 4314C Rehabilitation of Athletic Injuries
College of Health, Department of Movement Sciences and Health
4 sh (may not be repeated for credit)
Prerequisite: APK 2100C

Students will analyze principles (science and theory) and perform proper rehabilitation techniques (indications and contraindications) supported by evidenced-based-practices in the care and treatment of athletic injuries.

ATR 4420 Pharmacology Application in Athletic Training
College of Health, Department of Movement Sciences and Health
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 4940  Athletic Training Internship  
College of Health, Department of Movement Sciences and Health  
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 5105C  Advanced Principles in Athletic Training  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Current principles and practice in the prevention, diagnosis, and intervention of emergency, acute, and chronic medical conditions and the underlying theory and application of management of injuries associated with participation in physical activity. This course addresses the selection, fabrication, and application of tape, braces, and other orthopedic devices used in sports medicine.

ATR 5115C  Management of Medical Emergencies in AT  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Course includes instruction in the prevention, diagnosis, and intervention of acute and emergency medical conditions. Students will learn the basic principles of managing medical emergencies while utilizing immediate first aid techniques.

ATR 5120C  Anatomical Basis of Clinical Practice in Sports Medicine  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
By way of SynDavers and palpation labs, an in-depth, hands-on approach to learning the human skeletal and muscular anatomy will be offered. Students will learn anatomical and physiological studies through didactic and laboratory experiences; specifically how they relate to motion and mechanism of injury, muscle origins, insertions, and actions. Furthermore, students will develop and apply the principles and concepts of human movement, including normal osteokinematics and arthrokinematics.

ATR 5217C  Orthopedic Assessment I  
College of Health, Department of Movement Sciences and Health  
4 sh (may not be repeated for credit)  
Prerequisite: ATR 5105C  
A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic examination procedures used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis.

ATR 5218C  Orthopedic Assessment II  
College of Health, Department of Movement Sciences and Health  
4 sh (may not be repeated for credit)  
Prerequisite: ATR 5217C  
A systematic examination of the fundamental principles and concepts of athletic training as it relates to the prevention, evaluation, diagnosis, treatment, and rehabilitation of upper extremity injuries and conditions.

ATR 5435  General Medical Conditions in the Athlete  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
This course focuses on the identification and treatment of medical conditions of the nervous, urinary, endocrine, reproductive, respiratory, gastrointestinal, cardiovascular, and integumentary systems. Specific diagnostic tests and examination procedures will also be addressed. Emphasis is placed on the role the athletic trainer plays in the prevention, evaluation, diagnosis, treatment, and rehabilitation of conditions as directed by a supervising physician.

ATR 5815C  Athletic Training Clinical Experience I  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 5105C AND ATR 5125C  
This course is the initial clinical experience for MS AT students. Student experiences involve developing a critical understanding of agents that aid in the healing of athletic injuries and the reduction of pain utilizing appropriate therapeutic modalities.

ATR 5825C  Athletic Training Clinical Experience II  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 5815C  
Students will apply basic principles associated with prophylactic taping, wrapping, and bracing. Additionally, students will examine procedures associated with protective equipment, health maintenance, emergency management, and injury evaluation and diagnosis.

ATR 6305C  Therapeutic Modalities in Athletic Training  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: ATR 5105C  
This course will explore an evidence-based approach to therapeutic modality usage and implementation into a treatment plan. Students will investigate and analyze indications, contraindications, and biophysics of agents that aid in the healing of athletic injuries and the reduction of pain utilizing appropriate therapeutic modalities.

ATR 6316C  Rehabilitation Techniques in Athletic Training  
College of Health, Department of Movement Sciences and Health  
4 sh (may not be repeated for credit)  
Prerequisite: ATR 6305C  
This course is designed to provide a comprehensive overview of clinical techniques used in athletic training rehabilitative settings. Topics covered in this course include the determination of therapeutic goals and objectives, selection of therapeutic exercise progressions, methods of evaluating and recording rehabilitative progress, developing criteria for return to activity or competition, and determining the effects of trauma, wound, healing, and inactivity.
ATR 6425  Pharmacology and Diagnostic Imaging in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

This course is designed to introduce students to the principles of pharmacology and diagnostic imaging as it relates to athletic training. Students will become familiar with legal issues related to prescription and non-prescription medications, manage medication administration and inventory, critique therapeutic strategies in the athletic training setting, and conduct diagnostic imaging and orthopedic assessment.

ATR 6517  Administration and Professionalism in Athletic Training
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

This course explores quantitative and qualitative research methodologies used in athletic training and evaluation of published research in the field. Students will learn to develop clinically based research questions related to athletic training, design effective research procedures to investigate those questions, and use various publication and presentation outlets to disseminate the findings to other athletic training scholars and practitioners. Capstone activity for this course involves designing a research project with a culminating presentation and publication opportunities to disseminate the findings to other athletic training professionals.

ATR 6620  Research in Athletic Training I
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

Students will refine many of the athletic training skills which were introduced during other courses. These include critique and application of evidence-based clinical practice, nutrition principles, disordered eating management, emergent care procedures, clinical reasoning, injury evaluation and diagnosis. Additionally, students will generate referral protocols for mental health conditions, substance abuse, nutritional concerns, and common illnesses.

ATR 6621  Research in Athletic Training II
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

Prerequisite: ATR 6620

This course is designed to provide the athletic training student with competencies needed to plan, coordinate, and supervise administrative components of an athletic training organization, including those pertaining to health care, financial, personnel and facilities management, and public relations. A comprehensive study of the concepts of legal liability, budgeting, inventory, facilities design, and general administration of the athletic training clinic will be covered.

ATR 6835  Athletic Training Clinical Experience III
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

Prerequisite: ATR 5825C

Students will identify and analyze injury surveillance protocols, general medical conditions, therapeutic modalities, joint mobilizations, and injury assessments and diagnoses.

ATR 6845  Athletic Training Clinical Experience IV
College of Health, Department of Movement Sciences and Health
6 sh (may not be repeated for credit)

Prerequisite: ATR 6835

This course is designed to introduce students to the principles of pharmacology and diagnostic imaging as it relates to athletic training. Students will become familiar with legal issues related to prescription and non-prescription medications, manage medication administration and inventory, critique therapeutic strategies in the athletic training setting, and conduct diagnostic imaging and orthopedic assessment.

ATT-Aviation Technology: Theory Courses

AVM-Aviation Management Courses

BCH-Biochem (Biophysics) Courses

BCH 3033  Biochemistry I
College of Sci and Engineering, Department of Biology
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, allostery and cooperativity are surveyed. Material and supply fee will be assessed for corresponding lab.

BCH 3033L  Biochemistry I Laboratory
College of Sci and Engineering, Department of Biology
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, allostery and cooperativity are surveyed. Material and supply Fee will be assessed.

BCH 3034  Biochemistry II
College of Sci and Engineering, Department of Biology
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 anabolic and catabolic pathways of the major biological macromolecules.

BCH 3905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BCH 4905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BCH 5905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BCH 6905  Directed Study
College of Sci and Engineering, Department of Biology
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 2210  Construction Materials**  
College of Ed and Prof Studies, Department of Administration and Law  
3 sh (may not be repeated for credit)  
This course offers an introduction to the economic, mechanical, non-mechanical, production, and aesthetic considerations of materials currently used in construction in accordance with the 16 divisions of the Construction Specifications Institute. The course explores changing materials, methods and technologies in construction, and 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 2251C  Construction Drawings**  
College of Ed and Prof Studies, Department of Administration and Law  
3 sh (may not be repeated for credit)  
Provides basic working knowledge of architectural graphics, practice in instrumental drawing and experience in free hand sketching. 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 2272  Blueprint Reading**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)

**BCN 3224  Construction Materials and Method**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 1114 OR MAC 2233 OR MAC 2311  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)
BCN 4258C Building Information Modeling  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
3 sh (may not be repeated for credit)  
Prerequisite: BCN 2405  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)

BCN 4940 Construction Internship/Senior Project  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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  
College of Sci and Engineering, Department of Biology  
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  
College of Sci and Engineering, Department of Biology  
1 sh (may not be repeated for credit)  
Co-requisite: BOT 2010  

BOT 2905 Directed Study  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)

BOT 3905 Directed Study  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)
BOT 4374  Plant Developmental Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
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
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: BOT 4374*
Co-requisite: BOT 4374
Is designed to accompany BOT 4374. Features experiments that demonstrate and reinforce development 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
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
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
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: BOT 4503*
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
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
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
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Co-requisite: BOT 4734
Corresponding Lab for Plant Biotechnology.

BOT 4850  Medicinal Botany
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)
BOT 5376  Plant Developmental Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5376L
Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4374; graduate students will be assigned additional work. Material and Supply Fee will be assessed to corresponding lab.

BOT 5376L  Plant Developmental Biology Laboratory
College of Sci and Engineering, Department of Biology
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 5735  Plant Biotechnology
College of Sci and Engineering, Department of Biology
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 Laboratory
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Co-requisite: BOT 5735
Corresponding lab for Plant Biotechnology.

BOT 5852  Medicinal Botany
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BOT 6905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.

BSC-Biological Sciences Courses

BSC 1005  General Biology for Non-Majors
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
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  
College of Sci and Engineering, Department of Biology  
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  
College of Sci and Engineering, Department of Biology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 1085/L  
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  
College of Sci and Engineering, Department of Biology  
1 sh (may not be repeated for credit)  
Prerequisite: BSC 1085/L  
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  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)  

BSC 2010  Biology I  
College of Sci and Engineering, Department of Biology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 2010/L  
Co-requisite: BSC 2011  
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 2011L  Biology II Laboratory  
College of Sci and Engineering, Department of Biology  
1 sh (may not be repeated for credit)  
Prerequisite: BSC 2010/L  
Co-requisite: 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 2011  Biology II  
College of Sci and Engineering, Department of Biology  
3 sh (may not be repeated for credit)  
Prerequisite: BSC 2010/L  
Co-requisite: 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.

BSC 2311  Introduction to Oceanography and Marine Biology  
College of Sci and Engineering, Department of 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  
College of Sci and Engineering, Department of Biology  
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  
College of Sci and Engineering, Department of Biology  
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  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)
BSC 4263  Biological Oceanography
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physiochemical properties of the pelagic realm.

BSC 4303  Biogeochemistry
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Biogeochemistry, with a focus on the transformation of elements in the environment. The course will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 5856; graduate students will be assigned additional work.

BSC 4860  Conservation Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010L AND BSC 2011L AND PCB 3043
This course will introduce students to the field of conservation biology from the perspective of terrestrial, freshwater and marine habitats. Conservation biology is broadly concerned with maintaining and restoring biodiversity at all levels from genes to ecosystems, and by definition is interdisciplinary. Conservation biology broadly aims to develop the scientific and technical approach to protection, maintenance and restoration of biological diversity. We will consider the causes and consequences of biodiversity loss, established and emerging approaches to conservation, the interface with human dimensions, and the complexities of implementing science-based conservation policy and management. This course combines lectures, readings, in-class discussions, writing exercises and student presentations, with an emphasis on critical thinking, problem solving and global fluency. This class draws from all aspects of biology for those at the upper undergraduate or beginning graduate student level who are interested in conservation, whether from a biodiversity or ecosystem perspective. Often students are majors in Environmental Sciences or Biology, but they may also come from diverse backgrounds, including Environmental Studies, Law, Government, City and Regional Planning, Geography, and Anthropology. Offered concurrently with BSC 5865. Graduate students will be assigned additional work. A basic course in ecology is required, but seek the permission of the instructor if you have a special interest in conservation biology.

BSC 4905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BSC 4941  Clinical Experience in Health Care
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: Completion of 90 hours of college course work is required prior to taking this course.
Clinical experience in select health care locations within the region through Memoranda of Understanding (MOU) established with UWF and Biology. Permission process includes an interview conducted by the target health care entity to ensure expectations of student and health care entity will be met. Students will be expected to invest a minimum of 12 hrs / week on the project during the semester in which they are enrolled. A final report on the project(s) will be submitted. Permission is required.

BSC 5305  Biogeochemistry
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 4303; graduate students will be assigned additional work.
BSC 5459  Bioinformatics and Data Science
College of Health, Department of Public Health
3 sh (may not be repeated for credit)

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

BSC 5856  Bioterrorism
College of Health, Department of Public Health
3 sh (may not be repeated for credit)

Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare / bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact, will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 4854; graduate students will be assigned additional work.

BSC 5865  Conservation Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)

This course will introduce students to the field of conservation biology from the perspective of terrestrial, freshwater and marine habitats. Conservation biology is broadly concerned with maintaining and restoring biodiversity at all levels from genes to ecosystems, and by definition is interdisciplinary. Conservation biology broadly aims to develop the scientific and technical approach to protection, maintenance and restoration of biological diversity. We will consider the causes and consequences of biodiversity loss, established and emerging approaches to conservation, the interface with human dimensions, and the complexities of implementing science-based conservation policy and management. This course combines lectures, readings, in-class discussions, writing exercises and student presentations, with an emphasis on critical thinking, problem solving and global fluency. This class draws from all aspects of biology for those at the upper undergraduate or beginning graduate student level who are interested in conservation, whether from a biodiversity or ecosystem perspective. Often students are majors in Environmental Sciences or Biology, but they may also come from diverse backgrounds, including Environmental Studies, Law, Government, City and Regional Planning, Geography, and Anthropology. Offered concurrently with BSC 4860. Graduate students will be assigned additional work.

BSC 5905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BSC 6002L  Contemporary Laboratory Skills
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of 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
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

BSC 6971  Thesis
College of Sci and Engineering, Department of Biology
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Business, Department of Accounting & Finance
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**  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

**BUL 4244  Commercial Law**  
College of Business, Department of Accounting & Finance  
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**  
College of Business, Department of Accounting & Finance  
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**  
College of Health, Department of Health Sciences & Admin  
3 sh (may not be repeated for credit)

This course provides an overview of laws most affecting healthcare practices. The legal basis for government involvement in healthcare is examined with an analysis of the laws controlling the provision of healthcare industry and professional regulations. This course provides an in-depth overview of healthcare law, allowing students to acquire skills to confirm their actions to legal requirements and ethically analyze daily healthcare situations.

**BUL 4905  Directed Study**  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

**BUL 5378  Intellectual Property**  
College of Business, Department of Accounting & Finance  
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 and covers laws applicable to intellectual property rights 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 5378  Commercial Law**  
College of Business, Department of Accounting & Finance  
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**  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

**CAP-Computer Applications Courses**

**CAP 4053  AI Programming for Intelligent Environments**  
College of Sci and Engineering, Department of Computer Science  
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**  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Prerequisite: CDA 3101

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**  
College of Sci and Engineering, Department of Computer Science  
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  Introduction to Artificial Intelligence**  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Prerequisite: COP 4534

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. May be offered concurrently with CAP 5600. Graduate students will be assigned additional work.

**CAP 4770  Data Mining**  
College of Sci and Engineering, Department of Computer Science  
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 Introduction to Big Data Analytics  
College of Sci and Engineering, Department of Computer Science  
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. Students also learn Spark architecture and programming with the aim of doing big data analytics with machine learning algorithms in Spark.

CAP 4905 Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CAP 5600 Introduction to Artificial Intelligence  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
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. May be offered concurrently with CAP 4601. Graduate students will be assigned additional work.

CAP 5668 Human Agent/Robot Teamwork  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for credit)  
Prerequisite: COP 5416  
This course provides an introduction to human interaction with intelligent systems and robotics. It is a study of how intelligent systems cooperate with humans to achieve a common objective. The course includes seminar discussions and a paper with a practical computer programming assignment.

CAP 5771 Data Mining  
College of Sci and Engineering, Department of Computer Science  
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 CAP4770.

CAP 5772 Digital Media Analytics  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
Digital Media Analytics focuses on the processing and analysis of the copious amounts of data generated by digital media. Students will utilize standard programming languages and available software packages to design and implement solutions to acquire, process and analyze data in multiple formats.

CAP 5905 Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)  

CAP 5679 Advanced Data Mining  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for credit)  
This course will cover advanced topics in data mining on high dimensional data, including advanced feature selection techniques, advanced pattern mining, similarity searches (including minwise hashing and locality sensitive hashing), advanced classification methods, advanced cluster analysis, mining data streams, mining social networks, tree/graph mining, and privacy-preserving issues in data mining. Students are expected to have a course in data mining before taking this course.

CAP 6624 Introduction to Machine Learning and Data Science  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for up to 9 sh of credit)  
Models and methods of intelligent systems and robotics focusing on computational methods and their algorithmic performance. Optimization theory, sampling theory, partially observable Markov decision processes, recursive Bayesian filters including Kalman and particle filters supervised and unsupervised machine learning, deep learning, incremental sampling and search.

CAP 6667 Advanced Topics in Intelligent Systems & Robotics  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for credit)  
Prerequisite: EEE 6730  
This seminar-style course provides doctoral students with an overview of trends in Intelligent Systems and Robotics and prepares them to conduct independent research in the field. Permission of the Instructor is required.

CAP 6671 Intelligent Agents  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for credit)  
The course will cover the underlying theory of intelligent agents, both software agents and embodied agents, their implementation, and applications of single and multi-agent systems. The course will address common agent architectures and various methods of agent cooperation. The course will also explore how a range of other Artificial Intelligence techniques such as knowledge representation, reasoning, machine learning, planning, ontologies, and natural language interaction are leveraged by agents. Students will construct their own agents in order to solve a range of problems. The course will employ simulations of multi-agent systems involving both cooperating and competing agents. Students are expected to have a background with computer networks.
CAP 6772  Data Warehousing
College of Sci and Engineering, Department of Computer Science
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 6789  Advanced Big Data Analytics
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: CAP 6597 AND COP 5725

In this course students study advanced methods to handle and analyze very large data sets in Hadoop’s Big Data environment. Students work with the Spark architecture in the MapReduce framework. Students also learn to apply machine learning algorithms in Spark.

CAP 6905  Directed Study
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

CAP 7640  Topics in Natural Language Processing
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may not be repeated for credit)

This course covers fundamental concepts in processing natural language text. It provides an in-depth examination of state-of-the-art knowledge-based and statistical methods to process unstructured text, perform word and sentence-level syntactic and semantic analysis, and build machine representations to perform different natural language tasks. The course covers a variety of applications of these methods including syntactic parsing, word sense disambiguation, text classification, information extraction, text summarization, language generation, language translation, and dialogue systems. Students taking this course are expected to have a background in computer programming and mathematical statistics. Successful completion of coursework is necessary to enroll in the dissertation.

CBH-Comp Psych Animal Behav Courses

CBH 5905  Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

CCJ-Crimin Criminal Justice Courses

CCJ 2002  Survey of Crime and Justice
College of Ed and Prof Studies, Department of Criminal 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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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 3651  Drugs, Crime, and Criminal Justice
College of Ed and Prof Studies, Department of Criminal Justice
3 sh (may not be repeated for credit)

Explores the interactions between drugs, crime, and society. Relevant history, theory, and research related to drug use, prevention, rehabilitation, and the drug-crime link will be explored critically. Additionally, this course will examine the pharmacology of drugs and the prevalence of usage. As such, this course aims to provide a foundation for a better understanding the relationship between drugs, crime, and the criminal justice system.

CCJ 3666  Victimology
College of Ed and Prof Studies, Department of Criminal Justice
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 vítima’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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
1-12 sh (may be repeated indefinitely for credit)

CCJ 4026  Contemporary Issues in Criminal Justice  
College of Ed and Prof Studies, Department of 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  
College of Ed and Prof Studies, Department of Criminal 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 4641  Organized Crime  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of 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  
College of Ed and Prof Studies, Department of Criminal Justice  
1-12 sh (may be repeated indefinitely for credit)

CCJ 4931  Special Topics in Criminal Justice  
College of Ed and Prof Studies, Department of 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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
1-6 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: (CCJ 3014 AND CCJ 3024 AND CCJ 4700) OR (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  
College of Ed and Prof Studies, Department of Criminal Justice  
3 sh (may not be repeated for credit)  
Analysis of various policy initiatives designed to reduce the level of crime. Applies elements of criminological theory and research methods to critically evaluate the effectiveness of policies.
CCJ 5669  Race, Ethnicity, Gender, and Criminal Justice  
College of Ed and Prof Studies, Department of 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  
College of Ed and Prof Studies, Department of Criminal Justice  
1-12 sh (may be repeated indefinitely for credit)

CCJ 6006  Criminal Justice Administration  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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 6704  Research Methodology  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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 6715  Issues in Contemporary Criminal Justice  
College of Ed and Prof Studies, Department of 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 6745  Policing and Society  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
1-12 sh (may be repeated indefinitely for credit)

CCJ 6910  Criminal Justice Area Paper  
College of Ed and Prof Studies, Department of Criminal Justice  
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 6946  Criminal Justice Internship  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CDA 5905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CDA 6905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)
CEN-Computer Engineering Courses

CEN 3031  Software Engineering I
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: CEN 3031 AND COP 3022 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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Department of Information Tech
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

CEN 4910  Undergraduate Computer Science Research
College of Sci and Engineering, Department of Computer Science
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 5079  Secure Software Development
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
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.
CEN 5096  Cloud Computing  
College of Sci and Engineering, Department of Computer Science  
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 CEN 4083. Graduate students will be assigned additional work. 

CEN 5905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)  

CEN 5915  Graduate Computer Science Research  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
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 6017  Continuous Software Engineering  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Prerequisite: CEN 6080*  

This course focuses on aspects of modern software engineering as they pertain to continuous workflows. Topics of continuous testing, integration, delivery, and deployment will be discussed throughout the course. Significant programming experience is required for this course. 

CEN 6027  Software Engineering Process Improvement  
College of Sci and Engineering, Department of Computer Science  
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 6030  Agile Software Engineering  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Prerequisite: COP 6146  

Analysis and overview of concepts in agile software development. Covers agile principles, methodologies, practices, and artifacts. This course may require completion of graduate foundations courses in computer programming or the equivalent undergraduate coursework if a student has insufficient academic or professional experience in computer science. 

CEN 6044  Software Design  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Prerequisite: CEN 6016 OR CEN 6080  
The course examines the design principles/methodologies appropriate for developing complex software systems. Goals include a 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  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
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 3905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)
CET 4450  Data Visualization
College of Sci and Engineering, Department of Department of Information Tech
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. Offered concurrently with CTS 5541; graduate students will be assigned additional work.

CET 4454  Technology Systems Implementation Strategies
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CET 4743

Examines the processes and challenges posed by those processes involved in the conception, planning and implementation of a technology systems project. Learners will develop model documents for each process and each phase of the project implementation process.

CET 4743  Network Systems Architecture, Operations and Management
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CGS 2920 AND COP 2830

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
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)

Students will develop skills and abilities to effectively design, operate and distribute applications and services on the cloud. 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 6882  Network Performance Monitoring and Security
College of Sci and Engineering, Department of Department of Information Tech
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.

CGS 2060  Excursions in Computing
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)

This course introduces students to essential concepts related to computing and software systems so that students may develop a computing literacy necessary to interact proficiently with modern computing systems in personal and professional domains.

CGS 2570  Personal Computer Applications
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)

Internet Based online course, which provides practical experience with current popular microcomputer application packages. Students typically learn to use word-processing, spreadsheet, database software, and PowerPoint. Required for CIS majors but may not be taken for credit by CS majors.

CGS 2920  Foundations in Information Technology
College of Sci and Engineering, Department of Department of Information Tech
1 sh (may not be repeated for credit)

This course will serve as a program cornerstone, introducing BS in IT students to the general scope of the Information Technology field. Students will begin the process of assessing academic and professional goals, including evaluating potential capstone experiences/goals, considering professional development opportunities within and outside UWF, and evaluating interest in graduate studies.

CGS 3183  Basic Web Applications
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)

Introduces the student to the concepts and principles of designing software tools used in web applications. The student will gain hands-on experience in developing, manipulating, and implementing web tools such as a databases and server-side programming. Credit may not be received in both CGS 3183 and CGS 3172.
CGS 3464  Programming Using Visual Basic  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
Prerequisite: CGS 2570  
An introductory course in programming for non-majors. Incorporates the basic concepts of programming, programming logic and problem solving, as well as the design features of a visual, event driven language. Students will use a visual interface to program useful applications.

CGS 3604  Applications of Information Technology  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
Prerequisite: (CGS 2570) AND (MAC 1105 OR MAC 1140)  
Investigates current applications of information technology in business, scientific research, education, and media, and examines issues facing the information technology professional working in a variety of disciplines.

CGS 3763  Operating Systems Concepts  
College of Sci and Engineering, Department of Department of Information Tech  
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 operating systems and analyze operating system performance.

CGS 4905  Directed Study  
College of Sci and Engineering, Department of Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)  
*This course may be taken prior to or during the same term.

CGS 4912  Undergraduate Research in Information Technology  
College of Sci and Engineering, Department of Department of Information Tech  
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  
College of Sci and Engineering, Department of Department of Information Tech  
2 sh (may not be repeated for credit)  
Prerequisite: CIS 4947* OR CGS 4912* OR CIS 3949* OR CTS 4911*; 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  
College of Sci and Engineering, Department of Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CGS 6905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CHI- Chinese Courses

CHI 1100  Chinese Language I  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
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
College of Sci and Engineering, Department of 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 1032  Fundamentals of General Chemistry
College of Sci and Engineering, Department of 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 2045L  General Chemistry I Laboratory
College of Sci and Engineering, Department of Chemistry
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 2046L  General Chemistry II Laboratory
College of Sci and Engineering, Department of Chemistry
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 2046  General Chemistry II
College of Sci and Engineering, Department of Chemistry
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 2210  Organic Chemistry I
College of Sci and Engineering, Department of Chemistry
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046
Nomenclature, structure, fundamental reactions, mechanistic interpretation of reactions, and spectroscopy.

CHM 2210L  Organic Chemistry I Laboratory
College of Sci and Engineering, Department of Chemistry
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046L AND CHM 2210*
Introduction to laboratory techniques in Organic Chemistry. Isolation, purification, and synthesis. Material and supply fee will be assessed. Students taking CHM 2210 concurrently are required to withdraw from CHM 2210L if they withdraw from CHM 2210. A grade of 'C-' or higher is required in prerequisite courses.

CHM 2211  Organic Chemistry II
College of Sci and Engineering, Department of Chemistry
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210
Nucleophilic and electrophilic substitution reactions, additions, eliminations, redox and rearrangement reactions, carbohydrates, amino acids, peptides, isoprenoids. A grade of 'C-' or higher is required in prerequisite courses.

CHM 2211L  Organic Chemistry II Lab
College of Sci and Engineering, Department of Chemistry
1 sh (may not be repeated for credit)
Prerequisite: CHM 2210/L AND CHM 2211*
Multistep synthesis, separation of mixtures, identification of unknown organic compounds by classical and spectroscopic techniques. Material and supply fee will be assessed. Students taking CHM 2211 concurrently are required to withdraw from CHM 2211L if they withdraw from CHM 2211. A grade of 'C-' or higher is required in prerequisite courses.
CHM 3120 Analytical Chemistry
College of Sci and Engineering, Department of Chemistry
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045 AND CHM 2046
Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and supply fee will be assessed for corresponding lab. 8 sh of general chemistry required. A grade of 'C-' or higher is required in prerequisite courses.

CHM 3120L Analytical Chemistry Lab
College of Sci and Engineering, Department of Chemistry
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046L AND CHM 3120*
Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and Supply Fee will be assessed. 8 sh of general chemistry required. A grade of 'C-' or better is required in the prerequisite.

CHM 3230 Organic Chemistry III
College of Sci and Engineering, Department of Chemistry
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210/L AND CHM 2211/L*
Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometallics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8 sh of organic chemistry required. A grade of 'C-' or higher is required in prerequisite courses.

CHM 3400C Basic Physical Chemistry
College of Sci and Engineering, Department of Chemistry
4 sh (may not be repeated for credit)
Prerequisite: ((CHM 2211/L AND MAC 2312)) AND (PHY 2054/L OR PHY 2049/L)
A survey of the principles of Structure, Equilibrium, and Dynamics, applied to chemical systems. Includes experiments and other hands-on learning experiences.

CHM 3410 Physical Chemistry I
College of Sci and Engineering, Department of Chemistry
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
College of Sci and Engineering, Department of Chemistry
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
College of Sci and Engineering, Department of Chemistry
2 sh (may not be repeated for credit)
Prerequisite: CHM 2211L AND CHM 2320*
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
College of Sci and Engineering, Department of Chemistry
2 sh (may not be repeated for credit)
Prerequisite: CHM 3411* AND CHM 3740L
Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3905 Directed Study
College of Sci and Engineering, Department of Chemistry
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 3940 Chemistry Internship
College of Sci and Engineering, Department of Chemistry
1 sh (may not be repeated for credit)
Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3940 Chemistry Internship
College of Sci and Engineering, Department of Chemistry
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 3940 Chemistry Internship
College of Sci and Engineering, Department of Chemistry
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 3940 Chemistry Internship
College of Sci and Engineering, Department of Chemistry
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 3940 Chemistry Internship
College of Sci and Engineering, Department of Chemistry
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 3940 Chemistry Internship
College of Sci and Engineering, Department of Chemistry
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 4455 Introduction to Polymer Science**
College of Sci and Engineering, Department of Chemistry
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**
College of Sci and Engineering, Department of Chemistry
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**
College of Sci and Engineering, Department of Chemistry
1 sh (may not be repeated for credit)
Prerequisite: (CHM 3741L OR CHM 3400C) AND (CHM 3740L)
Co-requisite: 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**
College of Sci and Engineering, Department of Chemistry
4 sh (may not be repeated for credit)
Prerequisite: CHM 3400C OR CHM 3411

The structure, reactivity, kinetics and reaction mechanisms of inorganic and organometallic compounds.

**CHM 4905 Directed Study**
College of Sci and Engineering, Department of Chemistry
1-12 sh (may be repeated indefinitely for credit)

**CHM 4912 Undergraduate Chemistry Research**
College of Sci and Engineering, Department of Chemistry
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**
College of Sci and Engineering, Department of 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**
College of Sci and Engineering, Department of 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 Systs Courses**

**CIS 2530 Introduction to Cybersecurity**
College of Sci and Engineering, Department of Computer Science
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**
College of Sci and Engineering, Department of Department of Information Tech
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 3949 Cooperative Education**
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Department of Information Tech
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
College of Sci and Engineering, Department of Department of Computer Science
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
College of Sci and Engineering, Department of Department of Computer Science
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 4595  Capstone Systems Project
College of Sci and Engineering, Department of Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: (CNT 4403 OR CEN 3032) AND ((CEN 4078 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 4905  Directed Study
College of Sci and Engineering, Department of Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

CIS 4914  Computer Science Internship
College of Sci and Engineering, Department of Department of Computer Science
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
College of Sci and Engineering, Department of Department of Computer Science
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.

CIS 5396  Ethical Hacking and Penetration Testing
College of Sci and Engineering, Department of Department of Computer Science
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 5775  Cybersecurity Principles
College of Sci and Engineering, Department of Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: CDA 6415 AND COP 6025
This course introduces students to topics in cybersecurity. It provides information related to threat models, vulnerability analysis, and security-policy formation and enforcement. In addition, the course covers information assurance controlling laws and guidelines as well as introduces students to broad topics in network and system security, Internet services, and digital forensics.
CIS 5905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CIS 6376  Database Security  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
This course will 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 techniques 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  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Examines current advancements in computer hardware, operating systems and networks, their relation to each other, and programming practices that takes advantage of them. Topics include pipelined, hyperthreaded, multicore and multiprocessor architectures, scheduling methods, distributed and real-time systems, high-speed networks, routing, congestion and flow control, and quality of service.

CIS 6710  Trends in Information Technology  
College of Sci and Engineering, Department of Information Tech  
3 sh (may not be repeated for credit)  
Trends in Information Technology focuses on leveraging the latest technology to solve existing problems and to propose effective and efficient solutions. Students will also evaluate options and provide rationale for choices made in problem solving related to system performance and security.

CIS 6800  Data Security  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Prerequisite: COP 5725

This course covers concepts of Data Security from a data centric perspective. Challenges faced by today's systems will be studied and the future of data security will be discussed. This course may require completion of graduate foundations courses in computer programming or the equivalent undergraduate coursework if a student has insufficient academic or professional experience in computer science.

CIS 6905  Directed Study  
College of Sci and Engineering, Department of Computer Science  
1-12 sh (may be repeated indefinitely for credit)

CIS 6950  Information Technology Capstone Seminar  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: Completion of 18 hours of college course work is required prior to taking this course.  
Students enrolled in the MSIT 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. Students must complete 18 graduate hours and obtain department permission to enroll.

CIS 6971  Thesis  
College of Sci and Engineering, Department of Computer Science  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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.
CJE 6021  Penology
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of 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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal 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
College of Ed and Prof Studies, Department of Criminal Justice
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 Courses
College of Ed and Prof Studies, Department of Criminal Justice
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
College of Ed and Prof Studies, Department of Criminal Justice
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 3144 Abnormal Psychology
College of Health, Department of 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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

CLP 4110 Eating Disorders
College of Health, Department of Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
Eating Disorders provides an introduction to the characteristics and criteria associated with a variety of forms of disordered eating. It covers Pica, Anorexic-Restrictive Food Intake Disorder, anorexia nervosa, bulimia, binge eating disorder, and compulsive overeating, among others, and overviews key features of their causes, presentation, and treatment. Special attention is dedicated to understanding eating disorders in women, men, athletes, and multicultural populations. Attention is given to critical factors in the development and maintenance of eating disorders, including personality features, family characteristics, sexual orientation, sociocultural environment, and genetic influences. Further, the medical and physiological consequences of eating disorders will be covered. Treatment strategies for those with eating disorders are also reviewed, including nutritional, psychological and pharmacological forms of treatment. Finally, strategies for preventing eating disorders are explored.

CLP 4185 Behavioral and Technology Addictions
College of Health, Department of Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012
This course focuses on the varied forms of addictive behaviors and treatments, including gambling, online gaming, food addiction, pornography addiction, sex addiction, compulsive shopping, Internet addiction, and other impulse control disorders. Attention is given to the relationship between behavioral addictions and substance addictions across a number of domains, including their natural history, phenomenology, comorbidity, genetic predisposition, neurobiological mechanisms, and response to treatment. Developments in the conceptualization, prevention, and intervention are addressed as well, in relation to the rapidly evolving field of behavioral addictions.

CLP 4314 Health Psychology
College of Health, Department of 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
College of Health, Department of 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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

CLP 5166 Psychopathology
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

CLP 6905 Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)
CNT-Computer Networks Courses

CNT 3004   Introduction to Networks
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: (CGS 2920 AND COP 2253) OR COP 2334
This course introduces the technologies and skills used in the world of networking. Emphasis is on practical applications of networking technology to real-world problems. Students gain the knowledge necessary to design, install, and configure a local area network. Students will build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

CNT 3112   Routing and Switching Essentials
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CNT 3004
This course provides students with intermediate level knowledge in the architecture, components, and operations of routers and switches in a small network. Content includes how to configure and troubleshoot routers and switches. Students will learn how to design and configure virtual LANs, inter-VLAN routing in both IPv4 and IPv6 networks, and routing protocols.

CNT 4007   Theory and Fundamentals of Networks
College of Sci and Engineering, Department of Computer Science
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 4013   Connecting Networks
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CNT 4701
This course enables students to put emphasis on network services required by converged applications in a complex network. Students learn how to configure, troubleshoot, and manage network devices, and resolve issues with data link protocols. Students will also implement and configure IPSec and virtual private network (VPN) in a complex network.

CNT 4014C   IT Administration
College of Sci and Engineering, Department of Department of Information Tech
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
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: (COP 3530 OR COP 3022) AND (CNT 4007 OR COP 4635)
This course provides students with an understanding of the concepts of computer and network security using currently available technology. The course provides students with an understanding of the options available to mitigate threats within a system and teach students the techniques that can be taken to protect a network and communication assets from cyber threats.

CNT 4416   Cyber War Gaming
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: CIS 4385 AND CNT 4403
Every organization, whether part of the government or the private sector, needs “battle-tested” IT personnel in order to defend its networks against attack. The most effective way to provide this experience is to recreate the exact scenarios, no matter how nefarious, they will see in the real world. This course provides exercises that use different specialties (network, security, visualization, software, etc.) into color-coded red and blue teams that perform specific roles in attacking and defending IT infrastructures.

CNT 4526   Wireless and Mobile Communications
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CGS 2920 AND COP 2830
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.
CNT 4701  Scaling Networks  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
Prerequisite: CNT 3112  
This course covers the architecture and operations of routers and switches in complex networks. Students learn how to configure and troubleshoot routers and switches in large networks. This course provides students with skills and knowledge needed to resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. Students will also develop the skills needed to configure DHCP and DNS related servers in a network.

CNT 5407  System and Network Security  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
This course covers the basic strategies and tools that prepare students to engage in proactive and aggressive cybersecurity activities, with an increased focus on computer, network and system security. Students will learn about protection strategies which are most effective when dealing with cyber attacks, especially in an age of increased reliance on distributed devices. This course may require completion of graduate foundational courses in computer science or undergraduate coursework in computer networks and operating systems if a student has insufficient academic or professional experience in the field.

CNT 6519  Wireless Network Security  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
The objective of the course is to study and understand the security and research challenges of existing and emerging wireless networks. Students will learn about various security issues such as key management, privacy, authentication and secure data aggregation and the algorithms used to resolve these issues.

COM-Communication Courses

COM 2023  Death and Communication  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
In this course we shall examine topics related to death. The chief focus of this class will be interpersonal communication and death. We will explore end-of-life communication in a family context. Other topics include death rituals in diverse cultural contexts, the high cost of dying in the United States, and death policy. Please be aware that some of these issues can be rather disquieting to consider and discuss. Students should consider the subject matter before deciding to enroll in this course. Meets General Education requirement in Social Sciences.

COM 2203  Communication Dynamics  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
This course provides a theoretical foundation for understanding communication in the workplace, personal relationships, and mediated environments. Students will master the basics of conflict management, listening, nonverbal communication, strategic use of language, interviewing, leadership, teamwork, and intercultural communication. The course provides a foundation for advance-level studies in communication and helps students master communication proficiencies essential to success in professional and personal life.

COM 2713  Writing for the Communication Professions  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1101 AND ENC 1102  
This introductory course exposes students to writing for communication professions such as advertising, public relations, and journalism. Students strengthen grammar and develop the writing skills necessary for specific forms of writing. Students will explore various types of writing such as newswriting, public relations writing, and advertising copy. Students will become familiar with Associated Press Style. Meets Gordon Rule Writing Requirement.

COM 3003  Integrated Advertising & Public Relations Concepts  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: COM 2713*  
Three hours. Survey of advertising and public relations methods. Emphasis on preparation of advertisements, professional communication strategies and tactics, use of industry standard research methods, and communication campaigns. This course serves as the foundation for all other advertising & public relations courses.

COM 3014  Gender Communication  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Examines the roles gender plays in managing diversity in the workplace, developing personal relationships and exploring mass media in contemporary culture. This course is designed to increase your understanding of gender as it is constructed, performed, evaluated, and negotiated through communication. Meets Multicultural Requirement.

COM 3365  Conflict Management  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
This course focuses on the management of conflict through effective communication. Hands on student learning is emphasized. The course offers the theoretical investigation of communication barriers and breakdowns in interpersonal and public settings. The areas of interpersonal, organizational, cross-cultural and moral conflicts are highlighted.

COM 3461  Intercultural Communication  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Explores issues related to intercultural communication processes. Considers the important role of context (social, cultural, and historical) in intercultural interactions. The goal is to develop an understanding of the process of communicating across cultural boundaries. Operates from the premise that culture is both a producer and product of communication, and, therefore, an appreciation of communication processes is an essential factor in promoting positive intercultural relations and pursuing a more just global society. Meets Multicultural Requirement.
COM 3471  Fundamentals of Social Media Communication  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: COM 2713*  

This course provides students with an introduction to the history, theory, technology, and uses of social media. Social media are technologies that enable individuals to create, collaborate, share messages, and communicate with audiences of varying diversity and backgrounds. Students will consider the role of individual choice, social influence, technological influence, and how these perspectives can be seen in social media communication. Students will also explore the implications of social media for personal relationships, organizations, and culture.

COM 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)  

COM 3948  Service Learning Field Study II  
Col of Arts, Soc Sci and Human, Department of Communication  
1-3 sh (may be repeated for up to 4 sh of credit)  
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty ‘customize’ courses to fit a full range of services that are available in the setting. Student must be able to draw correlations between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student’s faculty sponsor, a minimum of 6-8 hours’ work per week must be done at the field site per semester hour of credit.

COM 4022  Health Communication  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education, and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 5025; graduate students will be assigned additional work.

COM 4103  Leadership Communication  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1102  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
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 4484  Rhetoric of Popular Trials  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
This course will explore how legal trials that capture the public consciousness reveal much about communication theory and rhetorical practice. Students will study popular trials - for example, the Scottsboro Nine Trials, the Sacco and Vanzetti Trial, the O.J. Simpson Trial, and the Patty Hearst Trial - and read scholarly analysis of the trials and public discourse surrounding them. Students can expect to learn more about legal advocacy, jury decision-making, and the relationship between public belief and legal judgment.

COM 4561  Social Media Content Development  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: COM 3471  
The emphasis of this course is on the production of professional communication for organizational social media accounts. Students will analyze each social media platform for communication effectiveness and identify the message, voice, and customer service opportunities. Students will gain the skills needed to produce each aspect of social media communication including messages, graphics, profile content, and videos.
COM 4620 Communication Ethics
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

COM 4940 Internship in Communication
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

COM 5933 Special Topics in Communication
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of Communication
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  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of 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 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)

COM 6930  Organizational Communication Project  
Col of Arts, Soc Sci and Human, Department of Communication  
1-6 sh (may be repeated for up to 6 sh of credit)  
Advanced research project for a major corporate or organizational client. Working with a client organization, students will identify a problem for study, perform an extensive review of issues related to the project, develop several testable research questions or hypotheses about the problem, gather and analyze qualitative and/or quantitative data, and write an extensive report, including summary conclusions based on the study. May enroll for more than one term, minimum of 6 sh required for M.A. degree. Graded on a satisfactory / unsatisfactory basis only. Permission is required.  
* This course may be taken prior to or during the same term.

COP 2253  Programming Using Java  
College of Sci and Engineering, Department of Computer Science  
3 sh (may not be repeated for credit)  
Introduction to algorithms and object-oriented programming. Topics include control constructs, loop 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++  
College of Sci and Engineering, Department of Computer Science  
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  
College of Sci and Engineering, Department of Department of Information Tech  
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  
College of Sci and Engineering, Department of Computer Science  
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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 3826  User Interface Programming
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: COP 2830

This course is directed towards undergraduate students pursuing a bachelors degree in Information Technology. This course provides students with skills to design, build and test user interfaces suitable for multiple platforms including the web, mobile devices etc. Students will also be able to design interactive systems incorporating principles of universal design.

COP 3905  Directed Study
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

COP 4020  Programming Languages
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: COP 3530

Exploration of the fundamental ideas behind object-oriented programming, including encapsulation, inheritance, and polymorphis. Applications will focus on extracting objects from a problem domain, designing problem solutions based on message-passing between objects, and documenting object-oriented design. Implementations will be done in a current object-oriented language.

COP 4365C  Advanced Topics in C# Programming
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: (COP 2253 OR COP 2334) AND (COP 4710)

This course covers advanced concepts and applications of C# programming. Topics covered will include: event-driven programming, user interfaces, inheritance, exception handling and input/output, data structures, threads and animation, networking, interfacing with databases, ASP.NET. Prerequisites: (COP 2253 or COP 2334) and COP 4710 (minimum grade C-).

COP 4534  Data Structures and Algorithms II
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: COP 3530 AND COP 4027

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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Department of Information Tech
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

COP 5007  Foundations: Programming Essentials
College of Sci and Engineering, Department of Computer Science
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 5416  Foundations: Data Structure & Algorithms Essentials
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
A comprehensive overview of the most commonly used data structures including arrays, linked lists, trees, graphs, hash tables, and heaps. A survey of common algorithms including those that are used with the data structures as well as sorting, searching, divide-and-conquer, greedy algorithms and dynamic programming. Students taking this course should have a good understanding of programming language fundamentals including variables, constants, selection, iteration, arrays, file I/O and functions. This course may require completion of graduate foundations courses in computer programming or the equivalent undergraduate coursework if a student has insufficient academic or professional experience in the discipline.

COP 5518  Foundations: Computing Essentials
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
This course reviews fundamental principles of modern computer architectures, 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. This course may require completion of graduate foundations courses in computer programming or the equivalent undergraduate coursework if a student has insufficient academic or professional experience in the discipline.
COP 5519 Programming for Information Technology
College of Sci and Engineering, Department of Computer Science
3 sh (may be repeated for up to 3 sh of credit)

Programming for IT focuses on using scripting languages to interact with the terminal and using libraries, dictionaries, user defined functions and automation technologies to ensure that IT systems are working effectively, efficiently and in a secured environment.

COP 5522 Parallel and Distributed Programming
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)

A comprehensive overview of parallel programming using MPI and OpenMP. A survey of common parallel architectures, communication primitives, applications of those primitives to design of efficient parallel algorithms, definition of models and metrics to evaluate the effectiveness of parallel algorithms theoretically and empirically, and introduction to cloud computing. Students taking this course should have a good understanding of undergraduate level data structures and algorithms, and mastery of undergraduate level programming in a Unix environment.

COP 5725 Database Systems
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)

Introduction to database systems and database management system architectures. Various database models are discussed with emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL are included. This course requires completion of graduate foundations courses in computer programming or the equivalent undergraduate coursework.

COP 5775 Database Administration
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

COT 4420 Discrete Structures
College of Sci and Engineering, Department of Computer Science
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, number systems and number theory, sequences, summations, graph and tree structures. Prerequisites: (COP 2253 or COP 2334 or COP 3014) and (MAC 2233 or MAC 2311) minimum grade of C-.

COT 4420 Theory of Computation
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)

Prerequisite: COT 3100


COT 4905 Directed Study
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)
COT 5205  Theory of Computation
College of Sci and Engineering, Department of Computer Science
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
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

COT 5930  Computer Science Seminar
College of Sci and Engineering, Department of Computer Science
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 6248  Seminar in Cybersecurity
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: CIS 6394 AND CIS 6800 AND CNT 5402 AND COP 5725; Completion of 18 hours of college course work is required prior to taking this course.
This graduate research seminar will provide cybersecurity graduate students with the opportunity to identify, research, report and discuss contemporary issues in cybersecurity. Students are expected to have completed the foundational courses in the curriculum and to work independently on a relevant topic approved by the instructor.

COT 6248  Seminar in Cybersecurity
College of Sci and Engineering, Department of Computer Science
3 sh (may not be repeated for credit)
Prerequisite: CIS 6394 AND CIS 6800 AND CNT 5402 AND COP 5725; Completion of 18 hours of college course work is required prior to taking this course.
This graduate research seminar will provide cybersecurity graduate students with the opportunity to identify, research, report and discuss contemporary issues in cybersecurity. Students are expected to have completed the foundational courses in the curriculum and to work independently on a relevant topic approved by the instructor.

COT 6905  Directed Study
College of Sci and Engineering, Department of Computer Science
1-12 sh (may be repeated indefinitely for credit)

COT 6931  Computer Science Project
College of Sci and Engineering, Department of Computer Science
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: 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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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. Course readings range from selections on tyranny from classical political philosophers such as Plato, Aristotle, Suetonius, and Machiavelli to modern biographical works and empirical analysis pieces. Historical cases from several continents are evaluated using a variety of media that may involve scholarly texts, novels, and films in order to draw parallels and contrasts among the cases.

CPO 3103  Politics of Western Europe
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
The course will introduce students to government structures, political parties, interest groups, and policy issues across Western Europe. The role of Western Europe in the twenty-first century will be explored. European Union and country nationalism versus European unity will be considered. Several country case studies will provide a focus for the course, including the United Kingdom, France, Germany, and Austria. Meets Multicultural Requirement.

CPO 3773  Great World Leaders
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
This course compares and evaluates both ancient and modern leaders from around the world. It compares their statesmanship, exercise of political power, vision and agendas as leaders. Their personalities and styles of leadership including how they led and mobilized people will be explored. It considers their strategies pertaining to political adversaries and how they dealt with challenges during their time as leaders. Finally, how they prepared for transfer of power or their departure from leadership roles will be examined.
CPO 4074 Political Economy
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
This course examines political institutions, including democracies and dictatorships of several Latin American countries and also Spain and Portugal as colonizers. It examines the process of political development in Latin America, considering conditions that promote democratic development and the occurrence of revolutions. The course depicts the roles that leaders, political parties, the military, the Catholic Church (and other religious denominations), international organizations (OAS, UN) and the United States played in the establishment or maintenance of democracy. It also examines Latin America’s role in world politics. Meets Multicultural Requirement.

CPO 4314 Democracies
Col of Arts, Soc Sci and Human, Department of Government
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 within democracies. The course explores democratic variants by examining factors such as accountability, competitiveness, transparency, and representation. The course examines democratization including how to build and sustain democracy. The class will consider preconditions for democracy and discuss the complex relationship between democracy and economics.

CPO 4774 Radicalism and Extremism
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

CPO 5315 Democracies
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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 6006  Seminar in Comparative Politics
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
Comparison and analysis of political systems, theoretical and empirical.

CPO 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

CRW-Creative Writing Courses

CRW 2001  Introduction to Creative Writing
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

CRW 3110  Fiction Writing
Col of Arts, Soc Sci and Human, Department of English
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 3310  Poetry Writing
Col of Arts, Soc Sci and Human, Department of English
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 3424  Playwriting
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

CRW 4211  Creative Non-Fiction
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

CRW 5905  Directed Study
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

CRW 6130  Workshop in Fiction Writing
Col of Arts, Soc Sci and Human, Department of English
3 sh (may not be repeated for credit)
Writing, editing, and evaluating fiction. Students will be expected to write original publishable fiction and critique writing produced in class. Permission is required.

CRW 6236  Workshop in Creative Non-Fiction Writing
Col of Arts, Soc Sci and Human, Department of English
3 sh (may not be repeated for credit)
Writing, editing, and evaluating original pieces of creative non-fiction. Permission is required.

CRW 6311  Workshop in Poetry Writing
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)
CTS-Computer Tech Skills Courses

CTS 3159  End User Support
College of Sci and Engineering, Department of Department of Information Tech
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 4121  Information Technology Applications in CompTIA Security+
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CGS 3763
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.

CTS 4139  Information Technology Applications in CompTIA Network+
College of Sci and Engineering, Department of Department of Information Tech
3 sh (may not be repeated for credit)
Prerequisite: CGS 3763
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.
CTS 4911  Information Technology Capstone  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
Prerequisite: CET 4743 AND CGS 3763  
Applying and integrating the knowledge of the development life cycle, project management, development tools, and skills gained throughout the major to plan, analyze, design, and build a fully functional information system/component(s) to solve a business problem for organizations. Demonstrating an understanding of the skills in documenting and presenting the project to company representatives.  

CTS 4950  Innovative Solutions for Industry  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
Innovative Solutions for Industry is a teams-based problem-solving course that allows students to develop a deep understanding of the requirements of a specific industry. Over the academic term, students will work intimately together on teams to rapidly iterate prototypes and produce solutions to problem sponsors’ needs. Student teams will utilize the lean methodology, which emphasizes customer discovery, and will experience the intensities and challenges of a startup company. Government and/or business sponsors shall support and mentor teams during the term.  

CTS 5458  Data Visualization  
College of Sci and Engineering, Department of Department of Information Tech  
3 sh (may not be repeated for credit)  
This course provides students with skills to describe theory and concepts related to efficient and effective display of data. Students will use a variety of tools necessary to prepare and present the factual data in a visually compelling manner. Data Visualization tools have a wide applicability and tools and technologies available today allow students, researchers and other users of data leverage on these tools to empower their presentations. Offered concurrently with CTS 4540; graduate students will be assigned additional work.  

CTS-Dance: Emphs on Activity Courses  
DAA 1300  Ballroom Dance  
College of Health, Department of Movement Sciences and Health  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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 2204C  Beginning Ballet  
Col of Arts, Soc Sci and Human, Department of Theatre  
2 sh (may not be repeated for credit)  
Beginning Ballet 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 a beginning ballet dance.  

DAA 2570C  Beginning Jazz and Tap Technique  
Col of Arts, Soc Sci and Human, Department of Theatre  
2 sh (may not be repeated for credit)  
Prerequisite: DAA 2204C  
Beginning Jazz and Tap 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 beginning jazz and tap dance.  

DAA 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Theatre  
1-12 sh (may be repeated indefinitely for credit)  

DAA 3004  Dance Styles I  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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 3006C  Music Theatre Dance Styles  
Col of Arts, Soc Sci and Human, Department of Theatre  
2 sh (may not be repeated for credit)  
Prerequisite: DAA 3205C AND DAA 3571C  
This course is designed to give the Musical Theatre performer an understanding of the structure behind choreography and an insight into the necessary showmanship and/or performance of that choreography.
**DAA 3205C Intermediate Ballet**  
Col of Arts, Soc Sci and Human, Department of Theatre  
2 sh (may be repeated for up to 4 sh of credit)  
Prerequisite: DAA 2204C  
This intermediate level course is designed to provide students with an opportunity to continue their pursuit of the classical ballet technique with an emphasis on technical development and extended movement combinations.

**DAA 3571C Intermediate Jazz and Tap Technique**  
Col of Arts, Soc Sci and Human, Department of Theatre  
2 sh (may be repeated for up to 4 sh of credit)  
Prerequisite: DAA 2570C  
This intermediate level course is designed to provide students with an opportunity to continue their pursuit of the jazz and tap technique with an emphasis on technical development and extended movement combinations.

**DAA 3905 Directed Study**  
Col of Arts, Soc Sci and Human, Department of Theatre  
1-12 sh (may be repeated indefinitely for credit)

**DAN-Dance Courses**

**DAN 3744 Dance Fitness**  
College of Health, Department of Movement Sciences and Health  
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**  
College of Health, Department of Psychology  
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**  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

**DEP 3103 Child Development**  
College of Health, Department of Psychology  
3 sh (may not be repeated for credit)  
Development and behavior of children from infancy to adolescence from two viewpoints: age periods (prenatal, infancy, preschool, school) and areas (physical, intellectual, personality, etc.).

**DEP 3905 Directed Study**  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

**DEC-Markt Distrib Education Courses**

**DEC 4401 Special Teaching Methods: Distributive Education**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
4 sh (may not be repeated for credit)  
Develops skill and competencies in special methods for those teaching distributive education in secondary schools. Includes latest instructional materials and methods for cooperative/distributive education.

**DEC 4905 Directed Study**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
1-12 sh (may be repeated indefinitely for credit)  

**DEP 4222 Autism Spectrum**  
College of Health, Department of Psychology  
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 4230 Gifted Children**  
College of Health, Department of Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: (DEP 2004 AND PSY 2012) OR DEP 3103  
The course provides a comprehensive overview of giftedness in children, the varying forms of giftedness, and special subgroups within the gifted population. The course will discuss methods to identify giftedness, educational strategies, and the social and emotional development of gifted children.

**DEP 4305 Psychology of Adolescence**  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

DEP 5055  Developmental Psychology  
College of Health, Department of 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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

DIG - Digital Media Courses

DIG 3309C  4D Design  
Col of Arts, Soc Sci and Human, Department of Art and 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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Ed and Prof Studies, Department of Criminal Justice  
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 6045  Homeland Security  
College of Ed and Prof Studies, Department of Criminal Justice  
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  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)
EAB 5705  Behavioral and Cognitive Therapies
College of Health, Department of Psychology
3 sh (may not be repeated for credit)
This course provides an overview of the principles and interventions of contemporary behavior therapy approaches, as well as in-depth examination of selected cognitive and cognitive-behavioral therapies. Theoretical foundations and empirical findings of these approaches are reviewed, and an emphasis is placed upon the application of this knowledge to various behavioral and psychological problems and disorders. Students must take EXP 4404 or equivalent, or have an undergraduate degree in Psychology before enrolling in this course.

EAB 5738  Behavioral Medicine
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

EAS-Aerospace Engineering Courses
EAS 4020  Introduction to Flight
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
1-12 sh (may be repeated indefinitely for credit)
ECO 4401  Introduction to Mathematical Economics  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2311  
Links basic mathematical tools with topics in economics. It provides illustrations of the use of those tools in analyzing practical problems faced by households and firms in making economic decisions.

ECO 4431  Business and Economic Forecasting  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023 AND STA 2023) OR ECO 3003  
Provides the student with alternative forecasting techniques with applications to processes that occur in business and economics. Students will learn what are the typical forecasting problems in business and economics, what are the tools that can be used for forecasting purposes, how these tools are used in practice (the mechanics), and how they are applied to particular business and economic problems (the application). Concentrates on conditional forecasts using econometric methods and time series models including smoothing methods and Box-Jenkins ARIMA models.

ECO 4704  International Trade and Commercial Policy  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
3 sh (may not be repeated for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  

ECO 4905  Directed Study  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
1-12 sh (may be repeated indefinitely for credit)  
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003  
Provides the student with alternative forecasting techniques with applications to processes that occur in business and economics. Students will learn what are the typical forecasting problems in business and economics, what are the tools that can be used for forecasting purposes, how these tools are used in practice (the mechanics), and how they are applied to particular business and economic problems (the application). Concentrates on conditional forecasts using econometric methods and time series models including smoothing methods and Box-Jenkins ARIMA models.

ECP 4314  Natural Resources Economics  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
3 sh (may not be repeated for credit)  
Prerequisite: ECO 2023  
The impact of human activity on the natural world raises a myriad of issues for society. Efficient management of our natural resources requires understanding of both economic and physical factors. Decisions on resource use affect everyone, with impacts that may come immediately or in the future. This course uses economic tools to analyze those decisions and the resulting impacts. Methods developed in the first part of the course are used to examine applied problems in selected areas such as mineral extraction, energy, forestry, fisheries, water, agriculture, outdoor recreation, wildlife management, and biodiversity.
ECP 4413 Industrial Economics
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)
Prerequisite: ECO 2023
Covers economic aspects of the behavior of firms in the United States including degree of concentration, price discrimination, competitive practices, strategic behavior, and regulated industries. The material covered will help students to understand how firms can continue to maintain high profits, how competition might lead to concentration, and how the government serves as a regulator in the economy. Credit may not be received in both ECP 4413 and ECP 4403.

ECP 4613 Urban and Regional Economic Development
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003
Contemporary urban and regional issues such as crowding, congestion, pollution and crime have long been the subject of political, moral and social debate. In order to understand and work towards solutions to these problems a command of economic theory and its relevant applications is essential. Takes simple economic principles and applies them to these pressing social issues including those found in the Gulf Coast area of Northwest Florida. In each case, various alternative solutions are discussed in the context of scarcity of resources, a fundamental principle of economics.

ECP 4905 Directed Study
College of Business, Department of Mktg, Sply Chain Logis & Econ
1-12 sh (may be repeated indefinitely for credit)

ECP 5905 Directed Study
College of Business, Department of Mktg, Sply Chain Logis & Econ
1-12 sh (may be repeated indefinitely for credit)

ECP 6045 General Aviation Economics and Finance
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)
Prerequisite: QMB 6305
Course will develop students’ ability to use economic concepts and theories to analyze issues in general aviation. This includes the interaction of financial markets and general aviation facilities along with the role of aviation policies in the structure of the US general aviation market.

ECP 6046 Commercial Aviation Economics and Finance
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)
Prerequisite: QMB 6046
Course will develop students’ ability to use economic concepts and theories to analyze economic and financial issues in commercial aviation. Specific emphasis is given to federal aviation policy and the effects on the industry along with analysis of the global commercial aviation market. This course also addresses anti-trust issues in commercial aviation.

ECP 6705 Advanced Managerial Economics
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)
Concepts of competition as they relate to business management policies and practices; profit goals and measurement problems; multiple product policy; demand analysis; cost concepts; pricing problems; case studies. Contains a portfolio project.

ECP 6905 Directed Study
College of Business, Department of Mktg, Sply Chain Logis & Econ
1-12 sh (may be repeated indefinitely for credit)

ECS-Econ Systems Development Courses

ECS 6905 Directed Study
College of Business, Department of Mktg, Sply Chain Logis & Econ
1-12 sh (may be repeated indefinitely for credit)

ECT-Education: Career/Tech Courses

ECT 3004 Principles of Career and Technical Studies
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
1-12 sh (may be repeated indefinitely for credit)

ECT 3945 Problem-based Investigations in CTE
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
4 sh (may not be repeated for credit)
Provides opportunity to become proficient in using special methods and procedural activities in career and technical studies classes. Credit may not be received in both ECT 4380 and EVT 4380.

ECT 4560  Selection and Guidance of Career and Technical Studies Students
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
1-12 sh (may be repeated indefinitely for credit)

ECT 4930  Seminar
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)

ECT 5905  Directed Study
College of Ed and Prof Studies, Department of Instructional Design and Tech
1-12 sh (may be repeated indefinitely for credit)

EDA 5191  Leadership in Education: Theory and Practice
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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. The subject matter, class activities, and skill developments of this course were selected to assist your personal growth. The success of educational leaders is conditioned largely by their ability to lead faculty, staff, and other constituencies through appropriate human relationships and leadership techniques. Application will focus on both personal and professional leadership development.

EDA 5905  Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDA 6063  Introduction to Educational Leadership
College of Ed and Prof Studies, Department of Teacher Ed & Ed 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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: EDA 6063  
Students will participate in a robust practicum experience with the opportunity to intern in two diverse school sites, under the mentoring support of two different principals. Candidates will lead instructional and program improvement efforts that are aligned to state and national leadership standards. This course provides opportunities for students to develop leadership skills and knowledge. The 60-hour practicum experience is designed to provide two clinical settings, where students can apply and connect theory to practice.  

EDA 6905   Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)  
EDE 7905   Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)  
EDA 7931   Seminar with High Performing Educational Leaders  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Educational Research & Admin  
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.  

EDF-Edu: Found Policy Study Courses  
EDF 1005   Introduction to Education  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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.  

EDE 4201   Planning and Curriculum II  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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.  

EDE 4905   Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)  
EDE 5905   Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)  
EDE 6905   Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)  
* This course may be taken prior to or during the same term.  

EDE - Educational: Elementary Courses  
EDE 3905   Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)  
EDE 4200   Planning and Curriculum I  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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.
EDF 3234  Applied Foundations of Education  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
The course focuses on principles of growth and development from birth through adolescence. Students examine personal, social and moral development as well as cognitive learning and motivation. The course contains an emphasis on learners from diverse backgrounds and with special needs.

EDF 3905  Directed Study  
College of Ed and Prof Studies, Department of Educational Research & Admin  
1-12 sh (may be repeated indefinitely for credit)

EDF 5905  Directed Study  
College of Ed and Prof Studies, Department of Educational Research & Admin  
1-12 sh (may be repeated indefinitely for credit)

EDF 6221  Intensive Intervention in Autism and Related Disabilities  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
2 sh (may not be repeated for credit)  
Prerequisite: EDF 6225  
An in-depth analysis of the core components of Early Intensive Behavior Intervention. Students learn how to structure intensive session to facilitate optimal medical treatment results for their clients. Students learn techniques to implement in practice to become fluent at precisely leading discrete trial training and incidental teaching as appropriate by context of medical ABA treatment in any appropriate setting.

EDF 6222  Concepts of Applied Behavior Analysis  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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. This course is required for students meeting the BACB 5th Edition Task List.

EDF 6223  Applied Behavior Analysis and System Support  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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) Fifth Edition Task List.

EDF 6224  Supervision and Management Fluency  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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) Fifth Edition Task List in its entirety. This course serves to prepare students to apply for the Board Certified Behavior Analyst (BCBA) exam or the Board Certified Assistant Behavior Analyst (BCaBA) exam.

EDF 6226  Behavioral Assessments  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6225  
Participants learn to identify behaviors appropriate for change using behavioral assessments and related professional issues relevant to the practice of assessing behavior. Content is drawn from the Behavior Analyst Certification Board (BACB) Fifth 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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226 AND EDF 6437  
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 6229  Curriculum Design, Stimulus Equivalence, and Generativity  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
2 sh (may not be repeated for credit)  
Prerequisite: EDF 6225  
Prepares students to create behavioral programming appropriate to meet the individual needs presented by a client when practicing as a Board Certified Behavior Analyst across medical, community, and educational settings.

EDF 6325  Autism and the Law  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
2 sh (may not be repeated for credit)  
This course equips students with an understanding of the legal aspects impacting practice as a Board Certified Behavior Analyst in the field of Autism and Related Disabilities and any other clinical application of behavior analysis including Behavioral Health treatment. Relevant law in both Education and Health Care is introduced, discussed, and applied in real world scenarios to help students better grasp the regulation, rules, and accountability expected of them as practitioners.

EDF 6437  Measurement and Single Case Design  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226  
This course provides students with concepts in measurement and design of single case methodology to establish reliable intervention procedures, positive behavior change, systems support, while adhering to management, supervision, and ethical and professional issues relevant to the practice of behavioral intervention and research design. The content is based on 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 6460  Foundations of Measurement  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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 6481  Educational Research  
College of Ed and Prof Studies, Department of Educational Research & Admin  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6225  
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 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 6691  Issues in Education: A Bio-Psycho-Social Perspective  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
This course presents a holistic approach to understanding various theories of learning and development. The biological, psychological and social factors that affect human development and learning will be emphasized. Students will explore various issues in education and best practices in the classroom with an emphasis on diversity.

EDF 6725  Critical Issues in American Education  
College of Ed and Prof Studies, Department of Educational Research & Admin  
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  
College of Ed and Prof Studies, Department of Educational Research & Admin  
1-12 sh (may be repeated indefinitely for credit)  

EDF 6943  Supervised Experience in Single Case Design  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-3 sh (may not 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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226 AND EDF 6437
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 the Behavior Analyst Certification Board (BACB) Fifth Edition Task List in its entirety. This course may be used as 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 7404  Quantitative Methods and Educational Statistics I
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not 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
College of Ed and Prof Studies, Department of Educational Research & Admin
2 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; and data analysis in survey research.

EDF 7478  Qualitative Research II-Design, Analysis, and Presentation
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
Prerequisite: EDF 7475
This course is an advance level course in qualitative research. This advanced course in qualitative research is needed to strengthen student knowledge and competence in understanding qualitative research procedures related to participant selection procedures, data collection approaches, data sources, credibility and trustworthiness, data analyses, and data presentation. It is designed for students who intend to use qualitative research approaches in their dissertations and or for further research.

EDF 7489  Mixed Methods Research Design
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for 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
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may be repeated for up to 6 sh of credit)
This 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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
Explores curriculum conceptions, contributions to curriculum decisions, issues and dilemmas in curriculum development, proposals for the organization of curriculum choices (both past and present), and analysis of curricular reforms. Theoretical foundations underlying curriculum considerations and implications of these for curriculum decision-makers at all levels.

EDF 7685 Philosophical Foundations of Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course provides an overview of the major historical trends in educational philosophies including Idealism, Realism, Pragmatism, and Existentialism. These foundational educational theorists, including Plato, Aristotle, John Locke, John Dewey, and Nel Noddings will be studied to understand the historical and theoretical importance in the impact of their work on the conceptual structure of educational philosophy. Students will compare and contrast theories of education, specifically, Essentialism, Perennialism, Progressivism, and Social Reconstructionism. 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 7640 Netnography
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course includes opportunities for students to explore and practice the qualitative research method of ethnography within virtual environments. The course will also involve opportunities for students to design and conduct virtual ethnographic studies or netnography research efforts. Topics to be discussed include: introduction to the nature of Netnography; review of Ethnography as a qualitative research design; Ethnography and virtual research environments; and Ethnography and Netnography: Commonalities and differences.

EDF 7638 Social Change and Reform
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
Analyzes different perspectives on agency and the structure of social change and reform. This course 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 7538 Social Change and Reform
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course includes opportunities for students to explore and practice the qualitative research method of ethnography within virtual environments. The course will also involve opportunities for students to design and conduct virtual ethnographic studies or netnography research efforts. Topics to be discussed include: introduction to the nature of Netnography; review of Ethnography as a qualitative research design; Ethnography and virtual research environments; and Ethnography and Netnography: Commonalities and differences.

EDF 7685 Philosophical Foundations of Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course explores the fundamental nature of education. The learner will consider what it means to educate, the purpose of education, the foundations of knowledge, the roles of educators and educational leaders, as well as the means by which to achieve the goals of education. Students will examine problems of education through the consideration of questions of metaphysical, ontological, epistemic, and axiological import. Major historical trends in educational philosophies including Idealism, Realism, Pragmatism, and Existentialism will be incorporated through application to problems of educational authority, responsibility, curriculum and instruction. Foundational educational theorists, including Plato, Aristotle, John Locke, John Dewey, and Nel Noddings will be studied in order to understand their historical and theoretical importance in the impact of their work on the conceptual structure of educational philosophy. Students will compare and contrast theories of education, specifically, Essentialism, Perennialism, Progressivism, and Social Reconstructionism. Students will investigate the major ideologies under-girding policy, curriculum and advocacy in education, including Nationalism, Liberalism, Conservatism, and Marxism.
EDF 7728 Poverty, Education, and Human Rights
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may be repeated for up to 6 sh of credit)

The 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
College of Ed and Prof Studies, Department of Educational Research & Admin
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 7730 Foundations of Doctoral Research and Writing
College of Ed and Prof Studies, Department of Educational Research & Admin
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 7912 Educational Specialist Degree Capstone Course
College of Ed and Prof Studies, Department of Educational Research & Admin
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 during 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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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 8289 Curriculum Design
College of Ed and Prof Studies, Department of Educational Research & Admin
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 8438 Social Network Analysis and Data Visualization
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course provides opportunities for students to explore a variety of investigative methods related to fundamental histographic 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
College of Ed and Prof Studies, Department of Educational Research & Admin
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 8498 Improvement Science and Design Decision Making in Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
The course is designed to examine a disciplined approach to educational innovation. Improvement Science focuses on creating a collaborative space for teachers, leaders, and researchers to solve specific problems of practice. The course is designed to examine current research on reasoning, problem solving, and decision making as well introducing students to the fundamental techniques of using data to make informed education related decisions. Additionally, the course focuses on ways of modeling, or thinking structurally about, problems of practice in order to enhance decision making skills. The course further examines the rationales for different innovations by integration multiple perspectives.

EDF 8649 Policy Analysis and Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
The course is designed to critically review current policy issues in education. The focus will be on the analyses of policymaking processes, methods of policy analyses, and policy research. Additionally, solutions to selected issues and problems will be reviewed, and alternative solutions interrogated.

EDF 8749 Psychological and Social Theories of Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course is designed to provide an extensive study of psychological and 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, research, and practice will be critiqued. Further the strengths and weaknesses of the theories will be interrogated.

EDF 8785 Research Ethics
College of Ed and Prof Studies, Department of Educational Research & Admin
2 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 8905 Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDF 8931 Doctoral Seminar: Background Paper
College of Ed and Prof Studies, Department of Educational Research & Admin
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 this Doctoral Seminar is an extensive Background Paper.

EDF 8932 Doctoral Seminar: Comprehensive Exam
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: EDF 8931 AND EDF 8935
This is the third in the series of four-sequenced doctoral seminars courses for students who have completed 48 semester hours in their doctoral course work. This third 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: Proposal
College of Ed and Prof Studies, Department of Educational Research & Admin
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 : Dissertation Inquiry
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
Prerequisite: EDF 8931
This is the second in a series of four-sequenced doctoral seminar courses for students in their doctoral journey. This second doctoral seminar serves as a research inquiry. Additionally, this doctoral seminar course will introduce students to the process of formulating ideas in ways directly related to critical aspects of their proposal. Students shall complete the 'Pre-proposal Document,' as the capstone assignment for the course. The 'Pre-proposal Document,' is designed as a guide for committee members and students to serve the purpose of providing them with a sufficient road map about what the student intends to do. The 'Pre-proposal Document' incorporates aspects of the background context to a proposed issue, problem statement, purpose of the study, research questions, significance of the issue to policy, practice, and theory, literature review, theoretical framework, methodology, ethical issues and related IRB processes. The 'Pre-proposal Document' allows students to capture all these aspects in a form of a mini proposal. Students shall orally defend the 'Pre-proposal Document.'

EDF 8936  Action Research Methods
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may be repeated for up to 9 sh of credit)
This course is designed to introduce students to action research. Action research focuses on improvement of practice, a better understanding of that practice, and an improvement in the situation in which the practice is carried out. The primary objective of the course is to equip students with the knowledge-base and skill-set to be able to undertake action research studies. Topics include definitions, importance and applications of action research; identifying and refining the focus of an action research study; planning for action research and reviewing related literature; articulating a theory of action and determining research questions; building a data collection plan and analyzing data; and presenting findings, action plans and future cycles.

EDF 8937  Research Applications
College of Ed and Prof Studies, Department of Educational Research & Admin
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 8940  Seminar: Supervised Doctoral Internship
College of Ed and Prof Studies, Department of Educational Research & Admin
1 sh (may not be repeated for credit)
Applied field experience chosen by doctoral students with the approval of the dissertation advisory committee. The supervised doctoral internship is designed to provide students with the opportunity to develop conceptual and professional skills through their experiences at an approved field site as they integrate theory and practice. Specific activities and assignments will be determined collaboratively by the student, the site supervisor, and the University supervisor to ensure that the intern obtains practical experience consistent with the expectations of a curriculum and instruction professional in a field of specialization.

EDF 8980  Dissertation
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDG 3323  Methods of K-12 Literacy Instruction
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDG 3945  Field Experience 1
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 for a minimum of 100 hours in a field placement. This experience includes: focused and specific observations, activities, and reflection. In order to receive a C- or above in the course, students must earn at least a 'Developing' rating on the Danielson evaluation tool for elements 1a,1b,1c,2a,3e,4e & 4f. Permission is required.2.0 and a program GPA for those in the Community Ed. Degree or 2.5 Program GPA for those in the ESE/Elem Ed. degrees.

EDG 4064  Teaching at Risk Learners
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234
This course is designed for individuals who will facilitate community-based education programs for children, youth, and families living in poverty. The course explores the impacts of poverty on education, health, and well-being of individuals, as well as ways to reduce these impacts. Emphasis is placed on the role of community educators in implementing effective educational programs and strategies that improve outcomes for disadvantaged children and youth.

EDG 4077  Learning In Community Education Environments
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
Students will explore the variety of settings that offer community 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 Community Learning Environments
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 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 with an emphasis on at risk student populations.

EDG 4351  Educational Assessment
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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  Effective Learning Environments
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
This course focuses on strategies for creating and maintaining effective learning environments with activities related to building relationships, organizing groups, developing and implementing rules and procedures, teaching effectively, utilizing positive behavior support strategies, and implementing individual behavioral interventions.

EDG 4905  Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)
EDG 4941  Teaching Internship I
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
6-12 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 execution of classroom instruction, classroom management and professional development. Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 4942  Teaching Internship II
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 4943  Teaching Internship III
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3-12 sh (may not be repeated for credit)
Prerequisite: EDG 4942
Internship Internship III 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 3 of this year-long supervised teaching experience in public and private schools will focus on classroom management and professional development. Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 4944  Teaching Internship IV
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
6-12 sh (may not be repeated for credit)
Prerequisite: EDG 4943
Internship Internship IV 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 4 of this year-long supervised teaching experience in public and private schools will focus on classroom management and professional development. Graded on Satisfactory/Unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).
**EDG 4949  Field Experience 2**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: TSL 4081 AND 1 FTCE General Ed  
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). In order to receive a C- or above in the course, students must earn at least a 'Developing' rating on the Danielson evaluation tool for all elements. Students must have a 2.5 program GPA and satisfactorily complete the FTCE General Knowledge exam as well as submit an application by the deadline listed on the department website and in the Student Guide in order to be eligible for placement. Permission is required.

**EDG 5250  Principles of Curriculum**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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 FDOE certification requirements should select specialization areas. The specialization areas are (a) early childhood/primary education, (b) middle school education, (d) secondary school education, and (e) exceptional student education.

**EDG 5304  Introduction to Teaching and Learning**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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 5349  Models of Teaching Math, Science and Social Studies**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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, syntetics, 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**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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 5446  Classroom Management, Assessment, and Instruction in Secondary Education**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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**  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)
EDG 5940  Graduate Student Teaching
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-6 sh (may be repeated for up to 6 sh of credit)
Graded on a satisfactory/unsatisfactory basis only.

EDG 6285  Data Driven Decisions Using Standardized Student Achievement Data
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
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. This course is designed specifically for administrators in the K-12 educational setting.

EDG 6288  Educational Assessment
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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  Principles of Curriculum and Instruction
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
This is an advanced curriculum course for graduate-level education students. This course is designed to give educators a comprehensive overview of the field of curriculum and instruction, including the influence of educational philosophies, curriculum theories, significant social forces, and learning theories about how knowledge, skills, and dispositions are constructed and transferred. It is a practical guide for curriculum development, instructional applications, and curriculum evaluation.

EDG 6905  Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDG 6916  Applied Research
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
Prerequisite: RED 6747 OR EDG 6918
This capstone course is designed for students to apply methods of scholarly inquiry and composition, synthesizing insights and findings in a scholarly product. The course goals are to provide students with hands-on experiences in the collection and analysis of data related to a specific field. Students will have options that include: 1) a comprehensive synthesis of research that answers a specific question, 2) an action research project, or 3) an instructor approved design.

EDG 6918  Introduction to Research
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
This course is designed to provide foundational knowledge about qualitative and quantitative methods for conducting meaningful inquiry and research in the social sciences. Students will gain an understanding of research intent and design, methodology and technique, data management and analysis, and format and presentation. The purpose of the course is to explore selected types of research and related techniques to provide students with the basic skills and knowledge to develop a research plan.

EDG 7008  Assessment Literacy
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 7241  Social Justice, Inequalities, and Power: A Global Overview
College of Ed and Prof Studies, Department of Educational Research & Admin
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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 evaluable 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 7354  Test, Measurement, & Data Literacy  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
This course explores varied constructs and concepts in measurement theory, test construction, reliability and validity, item analysis in test development, and test scoring and interpretation.

EDG 7458  Analysis of Alternative Assessment Methods  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for 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.

EDG 7935  Research Design Seminar  
College of Ed and Prof Studies, Department of Educational Research & Admin  
3 sh (may not be repeated for credit)  
Studies the characteristics of American college students, trends affecting higher education, and the effects of these trends on students? college experience and outcomes. Assignments and lesson plans will also engage students in the practice of skills vital for success in a complex and dynamic work environment.
EDH 5070  Assessment Issues in College Student Affairs  
College of Ed and Prof Studies, Department of Educational Research & Admin  
3 sh (may not be repeated for credit)  
The course will provide an introduction to assessment issues in student affairs. Students will focus on specific aspects of research design and methodology and the critical analysis of journal articles and research reports that employ these methods to investigate major issues in higher education. Students will explore the practical applications of assessment within the student affairs field, and develop a working knowledge about conducting assessments in their post-masters’ positions.  

EDH 6045  Theories of College Student Development  
College of Ed and Prof Studies, Department of Educational Research & Admin  
3 sh (may not be repeated for credit)  
The purpose of this course is to study the various student development theories used as a foundation for student affairs work. Students will learn theories related to psychosocial, identity development, cognitive-structural, and typology. Individuals will learn how to put theory into practice with working with students.  

EDH 6368  Multicultural Competence in Student Affairs  
College of Ed and Prof Studies, Department of Educational Research & Admin  
3 sh (may not be repeated for credit)  
This graduate seminar focuses on assisting students in deepening their critical understanding of multicultural issues in higher education. We will explore ways in which issues of difference extend beyond individual relationships to the systems in which people operate, in the unique context of colleges and universities. We will focus on developing awareness, knowledge, and skills necessary to be a multiculturally-competent student affairs practitioner and address responsibilities, challenges, and opportunities for creating and sustaining affirming, pluralistic, and inclusive campus communities for all students.  

EDH 6369  Capstone Seminar in Student Affairs  
College of Ed and Prof Studies, Department of Educational Research & Admin  
3 sh (may not be repeated for credit)  
Prerequisite: EDH 5040 AND SDS 6647  
As the culminating experience in the College Student Affairs Administration Program, this course prepares graduates for employment in the student affairs profession by means of the Comprehensive Assignment. Students develop and present a formal program proposal that demonstrates mastery of the CSAA program course content and skills. The course also includes job search preparation and employment strategies, as well as transitional issues from being a graduate student to a new professional, such as establishing a professional identity and social media pitfalls. This course is team taught by two CSAA faculty.  

EDH 6405  Legal Issues in Higher Education  
College of Ed and Prof Studies, Department of Educational Research & Admin  
3 sh (may not be repeated for credit)  
An examination of the legal status of higher education in the United States; the rights and responsibilities of educators and students including topics such as, due process; torts, liability, and contracts; student rights; student conduct, Higher Education compliance and other topical areas.  

EDH 6505  Budgeting & Financial Management in Higher Education  
College of Ed and Prof Studies, Department of Educational Research & Admin  
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  
College of Ed and Prof Studies, Department of Educational Research & Admin  
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  
College of Ed and Prof Studies, Department of Educational Research & Admin  
1-12 sh (may be repeated indefinitely for credit)  

EDH 6948  Internship in Higher Education  
College of Ed and Prof Studies, Department of Educational Research & Admin  
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 8225   Curriculum and Instruction in the Context of Higher Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course prepares students to identify, develop and lead innovative strategies in teaching and learning in higher education. Students will be able to articulate the importance of student learning outcomes from multiple perspectives. Students will explore the ways in which organizational culture interfaces with student learning and will develop a critical understanding of the ways in which issues of diversity influence equity considerations in American higher education.

EDH 8405   Law and Policy in Higher Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
Students will analyze contemporary legal, ethical and policy issues confronting higher education today enabling them to recognize the legal parameters around which decisions are made. Students will examine the historical, contextual and theoretical aspects of higher education law and policy as they affect students, faculty members, administrators, and organizational systems in both two- and four-year institutions.

EDH 8505   Finance in Higher Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course approaches higher educational institutions as complex systems and analyzes the literature, topics, and recent trends in economical and financial issues in higher education for purposes of both practical application and ongoing research. The focus will be on the knowledge and skills required to effectively respond to the financial changes and trends for two and four year institutions of higher education, including fiscal planning and management, enrollment management, alumni management, grant writing, and institutional advancement/comprehensive campaigning.

EDH 8635   Organizational Leadership and Change in Higher Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
This course examines leadership concepts in two and four year higher educational institutions. Areas of focus will include factors influencing strategic level decision-making, such as organizational structures and culture. Students will analyze key aspects of the change process and will be able to draw on and apply appropriate leadership strategies based on this analysis.

EDH 8648   Institutional Research and Outcomes Assessment in Higher Education
College of Ed and Prof Studies, Department of Educational Research & Admin
3 sh (may not be repeated for credit)
Students will explore the theoretical and practical application of institutional research as a discipline in higher education enabling them to recognize Institutional research an embedded function with direct applications in all administrative and strategic processes within two- and four-year institutions.

EDM-Education: Middle Courses

EDM 3905   Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDM 4905   Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDM 6905   Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDP-Educational Psychology Courses

EDS-Education: Supervision Courses

EDS 5905   Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EDS 6105   Human Relations and Communication in Education
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EED-Education: Early Childhood Courses

EEC 3905   Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EEC 4905   Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)
EEC 5905  Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EEC 6905  Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EEE-Electrical Electron Eng Courses

EEE 3308  Electronic Circuits I
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: (EGN 3204 OR EGM 3344) AND ((EEE 3308L* AND EEL 3111))
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: (EEL 3111) AND (CHM 2045 OR CHM 1045 OR CHM 1045C)
Introduction to the principles of semiconductor electron device operation. A grade of ‘C’ or better is required in the prerequisite.

EEE 4306  Electronic Circuits II
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: EEE 3308/L AND EEL 3112
Design-oriented continuation of Electronics I; feedback on ac circuits and applications, digital electronics. A grade of ‘C’ or better is required in the prerequisites.

EEE 4306L  Electronic Circuits II Laboratory
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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.

EEE 6730  Special Topics in Intelligent Systems
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may not be repeated for credit)
Prerequisite: EEE 6772
In this course the student will acquire a robust understanding of the foundations and fundamental results in a specific area of interest in the field of intelligent systems. Examples include knowledge representation, Bayesian reasoning, graphical models, multi-agent systems, computational social choice, social networks, cognitive models, ethical aspects of AI, natural language processing and human-computer interaction. This course is meant to provide a solid foundation in the area on which the student intends to focus for his/her dissertation.

EEE 6734  Bipedal Walking Robots
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may not be repeated for credit)
Prerequisite: EEE 6772
The study of walking robots and what it means to balance. Topics include static balance/stability, dynamic balancing and the study of the fundamentals of the inverted pendulum. The course addresses a series of increasingly complex bipedal walkers and various ways to interpret stability including static stability, center of mass, center of pressure, zero moment point and capturability. Concepts include what it means to walk and how complex movement such as running and trotting are achieved, and how disturbances affect walking, such as unexpected step-downs and pushes.

EEE 6772  Foundations of Intelligent Systems
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may not be repeated for credit)
The aim of this course is to provide the student with an introduction to the main concepts and techniques playing a key role in the modern arena of artificial intelligence. In addition to covering the main topics that concern modern AI, such as automated reasoning and search, particular attention will be devoted to its applications in several fields. Among the topics covered are, ‘What is an intelligent artificial agent?’, problem solving using search and constraint satisfaction, uncertainty, Bayesian networks and probabilistic inference, reinforcement learning, multi-agent systems, ethics, as well as several additional topics which may vary from semester to semester.

* This course may be taken prior to or during the same term.
EEL-Engineering: Electrical Courses

EEL 2948 Service Learning Field Study I
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: (PHY 2049/L) 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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: ((EEL 3111 AND MAP 2302)) AND (EGM 4313* OR EGM 3344*)
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: EEL 3111
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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 3701 Digital Logic and Computer Systems
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
1-12 sh (may be repeated indefinitely for credit)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>College</th>
<th>Department</th>
<th>Credit Hours</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 4213</td>
<td>Electric Energy Systems 1</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEL 3211</td>
<td>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).</td>
</tr>
<tr>
<td>EEL 4242</td>
<td>Power Electronic Circuits</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEE 3308</td>
<td>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).</td>
</tr>
<tr>
<td>EEL 4276</td>
<td>Cyber Security of Industrial Control System</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEL 3211</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 4283</td>
<td>Introduction to Renewable Energy</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) CHM 2045 AND ENC 1102 AND PHY 2049</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 4287</td>
<td>Future Energy Systems</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEL 3111</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 4290</td>
<td>Sustainable Power Systems</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEL 3111</td>
<td>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.</td>
</tr>
<tr>
<td>EEL 4514</td>
<td>Communication Systems and Components</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEL 3112 AND EEL 3135 AND EGM 4313</td>
<td>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).</td>
</tr>
<tr>
<td>EEL 4514L</td>
<td>Communication Laboratory</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>1 sh</td>
<td>(may not be repeated for credit) EEE 3308L AND EEL 4514*</td>
<td>Experiments with communication circuits and radio frequency instruments, devices, and measurements. Material and Supply Fee will be assessed.</td>
</tr>
<tr>
<td>EEL 4594</td>
<td>Introduction to Mobile Robotics</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) (EGM 4313 OR EGM 3344) AND (EEL 3111)</td>
<td>This is an introductory course to mobile robotics with emphasis on mobile robot models, control, planning, and navigation. The course will cover proprioceptive and exteroceptive mobile robot sensors and their processing; basic concepts of localization and mapping; Kalman filtering; design and evaluation of path tracking algorithms; planning and obstacle avoidance; intelligent control architecture.</td>
</tr>
<tr>
<td>EEL 4603L</td>
<td>Introduction to KUKA Robotics</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>1 sh</td>
<td>(may not be repeated for credit) EEL 3111</td>
<td>A hands on, laboratory based introductory course in programming robot operational tasks utilizing an industry standard controller and robot work cell. Upon completion of this course, students may choose to take the KUKA Robot Programming and Simulation exam and earn certification.</td>
</tr>
<tr>
<td>EEL 4657</td>
<td>Linear Control Systems</td>
<td>College of Sci and Engineering</td>
<td>Department of Electrical &amp; Computer</td>
<td>3 sh</td>
<td>(may not be repeated for credit) EEL 3111 AND MAP 2302</td>
<td>Theory and design of linear control systems.</td>
</tr>
</tbody>
</table>
EEL 4657  Linear Controls Laboratory  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
1 sh (may not be repeated for credit)  
Prerequisite: EEL 4657*  
Practical applications of linear control theory.

EEL 4663  Elements of Robotics  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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 4713  Digital Computer Architecture  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
3 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 4744L  Microprocessor Applications Laboratory  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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 4888  Software/Hardware Integration  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
3 sh (may not be repeated for credit)  
Prerequisite: (EEL 3701 AND EEL 4834) OR EEL 3111  
The course is concerned with the learning of software and hardware systems integration. Students will design and implement digital and analog systems using Arduino Mega microcontrollers, C, and C Sharp programming.

EEL 4905  Individual Problems in Electrical Engineering  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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
College of Sci and Engineering, Department of Electrical & Computer
Engineer
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
College of Sci and Engineering, Department of Electrical & Computer
Engineer
1 sh (may be repeated for up to 3 sh of credit)
Practical and significant discipline applicable 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
College of Sci and Engineering, Department of Electrical & Computer
Engineer
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 5262  Smart Distribution System
College of Sci and Engineering, Department of Electrical & Computer
Engineer
3 sh (may not be repeated for credit)
Theory and practical application methods available in the industry
for the protection of distribution systems and includes smart grid
applications for protection and control. Covering a broad range
of topics related to developments and trends in smart distribution
technologies including automatic restoration, data management,
cybersecurity, interoperability and standards, and future vision, this
course will be taught as a multidisciplinary course and emphasis is
placed on the importance of strong collaboration between academia,
utility and industry.

EEL 5266  Power System Operation and Control
College of Sci and Engineering, Department of Electrical & Computer
Engineer
3 sh (may not be repeated for credit)
An overview of modern power systems operation and control
problems and solution techniques, including the current and advanced
technologies and trends in development that will shape future electrical
power systems.

EEL 5277  Cyber Security of Industrial Control System
College of Sci and Engineering, Department of Electrical & Computer
Engineer
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.

EEL 5616  Advanced Control Systems
College of Sci and Engineering, Department of Electrical & Computer
Engineer
3 sh (may not be repeated for credit)
This course is focused on the analysis, modeling, and design
of advanced control systems in time and frequency domains.
Implementation of control systems using continuous and digital
techniques will also be covered.

EEL 5683  Introduction to Autonomous Systems
College of Sci and Engineering, Department of Electrical & Computer
Engineer
3 sh (may not be repeated for credit)
This course is focused on mobile robotics with emphasis on robot
control, navigation, and motion planning using kinematics and
dynamics. Topics include mobile robot sensors, sensor data
processing, Kalman filtering, mobile robot localization, basic concepts
of mapping, path planning and obstacle avoidance, and intelligent
control architecture.

EEL 5905  Directed Study
College of Sci and Engineering, Department of Electrical & Computer
Engineer
1-12 sh (may be repeated indefinitely for credit)

EEL 6245  Power Electronics and Utility Applications
College of Sci and Engineering, Department of Electrical & Computer
Engineer
3 sh (may not be repeated for credit)
This course focuses on power electronics structures and interfaces as
related to various utility applications.

EEL 6617  Multivariable Linear Control Systems
College of Sci and Engineering, Department of Intelligent Systems &
Robotics
3 sh (may not be repeated for credit)
This course focuses on input-output and state space representation
of linear continuous time dynamic systems. Topics include: analysis
and synthesis techniques for multi-input/multi-output (MIMO) control
systems, design and analysis of single and multi-variable feedback
control systems in transform and time domain. Students will study
the stability and robustness of feedback loops, while employing
approaches for optimal and robust feedback control design, chiefly H2,
H-infinity, and mu synthesis.
EEL 6692 Wearable Robotics
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may not be repeated for credit)
Prerequisite: EEE 6772
An applied investigation of wearable robotics. Physical assistive devices can take many forms, but all have a foundation in mechanical design, robotics, and biomechanics. This applied course will investigate the issues and approaches for assistance in the areas of mobility, rehabilitation, strength enhancement, and injury prevention. The student will review and present the state of the art in each of these areas.

EET-Electronic Engin Tech Courses
EEX-Educ:Excep Child-Core Comp Courses

EEX 3070 Methods in Inclusion and Collaboration
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 educational 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 behavior strategies will also be presented.

EEX 3905 Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

EEX 4141 Survey of Normal and Abnormal Language and Speech Development
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

EEX 5283  Employment, Social, and Personal Skill Building for Exceptional Students  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

EEX 6035  Best Practices in Teaching Challenging Students  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

EEX 7905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

EGI-Education: Gifted Courses

EGI 4905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

EGI 5905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

EGI 6905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)
EGM-Engineering: Science Courses

EGM 2500  Engineering Mechanics-Statics
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312
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.
* This course may be taken prior to or during the same term.

EGN-Engineering: General Courses

EGN 2911L  Sophomore Engineering Design I
College of Sci and Engineering, Department of Mechanical Engineering
3 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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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.

EGN 6416  Engineering Project
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: EGN 6429*
Capstone course for Masters of Engineering students who do not elect the thesis option. Students will define and carry out a project that shows mastery of some topic in Engineering and produces a final product.

EGN 6429  Principles of Engineering Analysis
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may not be repeated for credit)
This course will cover topics in advanced engineering analysis, including linear algebra, partial differential equations, Fourier series, complex variables, and vector calculus with numerical techniques.

EGN 6975  Thesis
College of Sci and Engineering, Department of Electrical & Computer Engineer
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: EGN 6429*
Design, research, and presentation of a master's thesis under the direction of a faculty committee.

EGS-Engineering: Support Courses

EGS 1006  Introduction to Engineering
College of Sci and Engineering, Department of Mechanical 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
College of Sci and Engineering, Department of Mechanical Engineering
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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
College of Sci and Engineering, Department of Electrical & Computer Engineer
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 2040  Introduction to Educational Technology
College of Ed and Prof Studies, Department of Instructional Design and Tech
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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 3233 Technology Integration Planning  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Provides students with the knowledge, skills, abilities, and attitudes necessary to implement instructional technology. Students will learn to identify the constraints and risks associated with instructional technology planning and implementation. Students will utilize software tools associated with the implementation of instructional technology.

EME 3312 Technology Supported Learning  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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 3410 Emerging Technology in the Classroom  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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 3905 Directed Study  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
1-12 sh (may be repeated indefinitely for credit)  

EME 4001 HUMINT Operations  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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 4343  Multimedia Design and Development  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Prerequisite: EME 3351  
Students are introduced to the field of Human Performance Technology (HPT). Through examination of the research, theories and models associated with HPT, students will be prepared to conduct comprehensive performance, gap and cause analyses in organizations, and identify training and non-training based solutions to resolve organizational performance concerns.

EME 4352  HPT Intervention Selection and Design  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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 4673  Foundations of Instructional Design  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Prerequisite: 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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
1-12 sh (may be repeated indefinitely for credit)  
EME 5316  Instructional Technology Leadership  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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 5905  Directed Study
College of Ed and Prof Studies, Department of Instructional Design and Tech
1-12 sh (may be repeated indefinitely for credit)

EME 6054  Foundations of Instructional Technology
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)
Provides students with the knowledge, skills, abilities, and attitudes necessary to provide leadership in the implementation of instructional technology. Students will learn to identify the constraints and risks associated with instructional technology planning and implementation and develop ways to manage these factors. Students will utilize software tools to manage the implementation of an instructional technology project.

EME 6609 Principles of Instructional Design
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)
Learners will apply a systems approach to the instructional design process. Theoretical underpinnings and practical applications for instructional design will ground the course. Students will apply a research-based model and best practices to design a pedagogically sound instructional product.

EME 6626 Emerging and Innovative Technology Systems
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
1-12 sh (may be repeated indefinitely for credit)

EME 6946 Instructional Design and Technology Capstone
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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 7067  Emerging Technologies-Analysis and Implementation
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)

Students will develop a systems perspective of the design and development of distance learning, exploring the associated risks and constraints and ways to mitigate these risks and constraints, particularly with regard to planning for distance learning. Students will investigate the processes and best practices associated with designing and developing distance learning and will develop skills and knowledge to provide leadership in distance learning.

EME 7079  Distance Learning Implementation and Evaluation
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)

Students will develop the knowledge and skills to be leaders in the implementation of distance learning into educational and training environments. As part of this process, students will develop a plan for implementing and evaluating distance learning and will consider all needed aspects of this kind of plan, including human and financial resources. Students will take a systems approach to implementing and evaluating distance learning, considering the impact of the implementation on the system.

EME 7353  Leading Intervention Implementation and Evaluation
College of Ed and Prof Studies, Department of Instructional Design and Tech
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
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)

Students 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
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)

Students 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 7609  Principles of Instructional Systems Design
College of Ed and Prof Studies, Department of Instructional Design and Tech
3 sh (may not be repeated for credit)

Students will examine the use of instructional systems design models to create instruction that is appropriate from a pedagogical and practical viewpoint. Theories and models to support the design of instruction for use in a variety of instructional formats will be emphasized. Focus areas will include analysis, instructional goals and objectives, assessment, instructional strategies and the role of formative evaluation in instructional design. Students will apply theories and best practices to design a pedagogically sound instructional product.
EME 7618 **Instructional Design and Technology Research**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

This course provides an introduction to the design of research studies in the field of instructional design and technology. Aspects of research design and associated methodologies will be explored. Critical analysis of the research literature will highlight trends for problems and issues warranting further investigation. The quality and rigor of research will be emphasized, including research validity, methods of data collection and analysis, conclusions drawn from evidence, and ethical standards.

EME 7676 **Theoretical Foundations of ID, IT, and PT**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

Examination of the theoretical foundations of the fields of instructional design, instructional technology, and performance technology. Students will analyze, discuss, and critique systems, communication, and learning theories and their relationships to instructional and performance technology research and practice. Students will develop the knowledge, skills, and abilities necessary to select and apply appropriate theories to solve instructional and performance technology related problems.

EME 7685 **Research-based Models of ID, IT, and PT**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

Examination of the research-based models that guide practice in the fields of instructional design, instructional technology, and performance technology. Students will analyze, discuss, and critique instructional design models, technology integration models, and performance technology models and their applications. Students will develop the knowledge, skills, and abilities necessary to select and apply appropriate models to solve instructional and performance technology related problems.

EME 7692 **Doctoral Seminar-Scholarly Writing in IDT**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

Focuses on the development of individual scholarly writing skills using structured feedback in a peer review process. Students will work individually to build writing competency by creating a literature review. Students will then review and critique individual writings by working in small peer groups, facilitated by faculty scholars and academic writing coaches.

EME 7695 **Action Research in IDT**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

This course will prepare students to conduct IDT related action research in their individual organizational settings. Students will examine the concepts, processes, and components of action research studies, including problem identification, study design, data source identification, data analysis, and results reporting. Action research is presented as a disciplined process of inquiry for the dissertation in practice.

EME 7905 **Directed Study**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
1-12 sh (may be repeated indefinitely for credit)  

EME 7938 **IT Research Design Seminar**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

Provides Instructional Technology advanced graduate students with the opportunity to conduct an in-depth examination of the processes and procedures in applied IT research, specifically as related to the dissertation process. Students explore how to determine appropriate topics for IT research, format and style for research publications, strategies for conducting literature reviews, hypotheses, a research design, and appropriate statistical application.

EME 8608 **IDT Foundations, Issues and Trends**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

Students examine the history and evolution of the field of instructional design and technology and its three major areas of emphasis; instructional design, instructional technology, and performance technology. Students will also analyze current issues and trends influencing the field and their impact on research and practice. This course focuses heavily on research, critical thinking, and communication skills.

EME 8609 **IDT Research Design**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Pre requisite: EME 8695  

Students should enroll in this course after successfully completing the Coursework Capstone Experience. This course guides students through the development of the dissertation-in-practice proposal. Students will work with the instructor and peers to identify an appropriate research opportunity and design the key components of the study, preparing them to work with their individual committees throughout the remainder of the program to develop and defend a proposal, conduct a study, and finalize and defend the dissertation.

EME 8693 **Doctoral Seminar-Analysis and Dissemination of IDT Research**  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  

Critical examination of strategies used to structure research studies and disseminate findings in the field of IDT. Students will examine published journal articles, conference proposals, and conference presentations to identify best-practices related to the dissemination of research in IDT. This course will include a residency requirement, to be held in conjunction with a professional conference/convention, allowing students to observe multiple research presentations and interact with scholars in their field. Following the residency students will develop a proposal to be submitted for presentation at a future conference.
EME 8695  Doctoral Seminar-Coursework Capstone Experience  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
This seminar will take place upon completion of all required coursework. Students will demonstrate attainment of program level learning outcomes and readiness to advance to the dissertation phase of the doctoral program. The course will be presented primarily online; however, it will also include a short residency to be completed on campus.

EME 8905  Directed Study  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
1-12 sh (may be repeated indefinitely for credit)

EME 8980  Dissertation  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
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.

EME 8981  Dissertation in Practice-Phase 1  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Prerequisite: EME 8609  
The first in a series of four courses structured to support students as they progress through the dissertation phase of the doctoral program. Students must complete all required coursework, the Coursework Capstone Experience, and IDT Research Design prior to enrolling. This course focuses on the development and defense of the dissertation proposal. Students will work under the guidance of a dissertation committee to craft the dissertation in practice proposal and then successfully defend this proposal in an oral defense.

EME 8982  Dissertation in Practice-Phase 2  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Prerequisite: EME 8981  
The second in a series of four courses structured to support students as they progress through the dissertation phase of the doctoral program. Students must successfully complete Phase 1 prior to enrolling in Phase 2. Under the direction of the dissertation committee, students will implement their approved research proposals, collecting and analyzing data. Students will apply for and receive IRB approval prior to collecting data. Upon approval they will collect data, analyze data, and identify appropriate strategies for presenting findings in the dissertation document.

EME 8983  Dissertation in Practice-Phase 3  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Prerequisite: EME 8982  
The third in a series of four courses structured to support students as they progress through the dissertation phase of the doctoral program. Students must successfully complete Phase 2 prior to enrolling in Phase 3. Under the direction of the doctoral committee the student will assemble the final dissertation document using the provided tools to ensure that the document aligns with established requirements. The document will demonstrate exceptional research, critical thinking, and writing skills per established program guidelines.

EME 8984  Dissertation in Practice-Phase 4  
College of Ed and Prof Studies, Department of Instructional Design and Tech  
3 sh (may not be repeated for credit)  
Prerequisite: EME 8983  
The fourth in a series of four courses structured to support students as they progress through the dissertation phase of the doctoral program. Students must successfully complete Phase 3 prior to enrolling in Phase 4. Under the direction of the doctoral committee students will complete the dissertation phase of the doctoral program. Students will obtain all required approvals of the written document and present and successfully defend their work.

**EML-Engineering: Mechanical Courses**

EML 3011  Mechanics of Materials  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2311

Introduction to industry standards for graphical representation of objects and simulation of processes utilizing 2D presentations and 3D modeling.

EML 3172L Mechanics of Materials lab  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
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 4081 Non-Destructive Evaluation  
College of Sci and Engineering, Department of Mechanical Engineering  
3 sh (may not be repeated for credit)  
Prerequisite: EML 3011 AND PHY 2048

Non-destructive evaluation (NDE) techniques with emphasis on recent advancements in the field. Introduction to the field of NDE. Overview of common NDE techniques, such as visual inspection, eddy current, X-ray, and ultrasonics. Recent development and research areas in NDE.

EML 4225 Dynamic Systems  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
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 4723 Computational Fluid Dynamics  
College of Sci and Engineering, Department of Mechanical Engineering  
3 sh (may not be repeated for credit)  
Prerequisite: EML 3016

Fluid kinematics, differential formulation of conservation laws for fluid mechanics, numerical schemes for discretizing differential equations, turbulence models, simulation of laminar and turbulent flows using modern tools.

EML 4804 Mechatronic Systems  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
3 sh (may not be repeated for credit)  
Prerequisite: (EEL 4834 OR EGM 3344 OR COP 3014) AND ((EEL 3111 AND EML 4804L*))

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  
College of Sci and Engineering, Department of Electrical & Computer Engineer  
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  
College of Sci and Engineering, Department of Mechanical Engineering  
1-12 sh (may be repeated indefinitely for credit)

EML 4930 Special Topics in Mechanical Engineering  
College of Sci and Engineering, Department of Mechanical Engineering  
1-4 sh (may be repeated for up to 6 sh of credit)

Special courses covering selected topics in mechanical engineering.
EML 4940 Engineering Internship
College of Sci and Engineering, Department of Mechanical Engineering
1 sh (may be repeated for up to 3 sh of credit)
Practical and significant discipline applicable engineering based work experience under approved industrial supervision. Graded on a satisfactory / unsatisfactory basis only. Permission from department co-op advisor is required.

EML 4948 Co-Op Work Experience
College of Sci and Engineering, Department of Mechanical Engineering
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.

EML 5239 Principles of Fracture Mechanics
College of Sci and Engineering, Department of Mechanical Engineering
3 sh (may not be repeated for credit)
This course will investigate topics related to fracture analysis of mechanical structures. Topics include brittle and ductile fracture, linear elastic fracture mechanics and determination of stress intensity, elastic-plastic fracture, J-integral, and fatigue failure.

EML 5546 Composite Materials
College of Sci and Engineering, Department of Mechanical Engineering
3 sh (may not be repeated for credit)
This course is an introduction to composite materials and their applications. Properties and microstructure of high-strength fiber materials (glass, carbon, polymer, ceramic fibers) and matrix materials (polymer, metal, ceramic, and carbon matrices) will be analyzed. Additionally, specific strength and stiffness of high-performance composites, design of composite structures and components, and manufacturing processes will be examined.

EML 6305 Advanced Solid Mechanics
College of Sci and Engineering, Department of Mechanical Engineering
3 sh (may not be repeated for credit)
This course covers stress analysis of mechanical structures. Topics include unsymmetrical bending, three-dimensional stress-strain, torsion, rotational stress, thin walled pressure vessels, beams on elastic foundations, and stress concentrations.

EML 6805 Foundations for Robotics
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may not be repeated for credit)
This course is focused on robot modeling. It addresses fundamental concepts of robot kinematics including forward kinematics, inverse kinematics, and differential kinematics. In addition, it deals with robot dynamics, trajectory generation, and tracking. Advanced topics on high-level control such as admittance and impedance will also be covered. Students are expected to have a background in linear algebra, knowledge of computational logic and logic-based programming.

EML 6938 Special Topics in Robotics
College of Sci and Engineering, Department of Intelligent Systems & Robotics
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: EEE 6772 OR EML 6805
In this course the student will acquire a robust understanding of the foundations and fundamental results in a specific area of interest in the field of robotics. Examples include human agent/robot teamwork, multivariable Linear Control Systems, humanoid robots, wearable robotics, human assistive devices, guidance and path planning, fault detection and isolation, autonomous navigation and obstacle avoidance, human-friendly industrial robotics and automation, social robotics, field robotics, robotics for education and training and rehabilitation robotics.
• This course may be taken prior to or during the same term.

ENC-English Composition Courses

ENC 1101 English Composition I
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
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**  
Col of Arts, Soc Sci and Human, Department of English  
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 college composition effective. In a collaborative environment, students interpret assignments, generate and research ideas, invent topics, and write, evaluate, revise, and edit drafts. Studio teaches these activities as ‘recursive’ in that writers engage and re-engage in them as one moves through the planning, drafting, and revising of assignments. In any given Studio session, students might closely read an assignment description and plan how to begin a project, rhetorically analyze the purpose and audience of a given writing project, workshop drafts at any stage of the writing process, and actively reflect over writing choices. Students learn to ask critical questions about their own writings, and the class engages in a wider, more nuanced conversation about academic conventions.

**ENC 1905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENC 2905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENC 3213  Professional and Technical Writing**  
Col of Arts, Soc Sci and Human, Department of English  
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**  
Col of Arts, Soc Sci and Human, Department of English  
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**  
Col of Arts, Soc Sci and Human, Department of English  
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**  
Col of Arts, Soc Sci and Human, Department of English  
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**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENC 4905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENC 4940  Writing and Editing Internship**  
Col of Arts, Soc Sci and Human, Department of English  
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.

**ENC 5333  Topics in Rhetoric**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may be repeated for up to 9 sh of credit)

Examination of various topics in rhetoric, composition and/or pedagogy as they apply to the history, theory, analysis, and/or practice of rhetoric. Topics change each term. Contact department or instructor for specific topic.

**ENC 5905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)
**ENG-English: General Courses**

**ENG 2905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENG 3010  Critical Methods for Literary Study**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Co-requisite: ENC 3350  
Development of writing and critical thinking skills specific to the study of literature. English majors and minors only. Credit may not be received in both ENG 3010 and ENC 3320. Meets Gordon Rule Writing Requirement.

**ENG 3113  Fiction and Film**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Selected prose fiction and film adaptations.

**ENG 3843  Theories of Sexuality and Gender**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Examines sexuality and gender as social constructs as opposed to 'natural' categories or 'essences.' Includes feminism, gay and lesbian studies, and masculinity studies. Draws on many disciplines, including literature, history, sociology, anthropology, philosophy, and the sciences.

**ENG 3905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENG 4013  Introduction to Literary Theory**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Designed to provide an introduction to a wide range of current theories about the uses and effects of literature and literary criticism. Primarily for English majors and minors. Meets Multicultural Requirement.

**ENG 4823  Careers in Writing**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
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 & curriculum vitae, cover letters, query letters, personal web presence, and interview techniques. Offered concurrently with ENG 5825; graduate students will be assigned additional work.

**ENG 4905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENG 4934  Capstone Experience**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Covers a wide range of literary genres and works that have been considered controversial at some point in their history because of their subject matter, form, or style. Changing attitudes toward what is considered 'literature' or 'literary' will be emphasized. Required texts will vary according to instructor's expertise. Permission is required.

**ENG 5009  Introduction to Advanced Literary Study**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Examines the history and current state of literary studies and introduction to current methods and resources necessary for advanced literary studies.

**ENG 5825  Careers in Writing**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
In this course students will examine professional and post-degree concerns for English students completing the MA degree. In addition to a strong focus on developing a teaching portfolio for faculty positions, 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 & curriculum vitae, cover letters, query letters, personal web presence, and interview techniques. Offered concurrently with ENG 4823; graduate students will be assigned additional work.

**ENG 5905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

**ENG 6018  History of Literary Theory**  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Survey of literary theory from Plato to contemporary thought.
ENG 6019  Topics in Literary Theory  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Topics in literary theory.

ENG 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)  

ENG 6971  Thesis  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  

ENL 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)  

ENL 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)  

ENL 4071  Old English Language  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Language instruction for speaking, writing, and reading Old English. Offered Fall semester only.

ENL 4203  Topics in Medieval Literature  
Col of Arts, Soc Sci and Human, Department of English  
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 4204  Topics in Early Modern Literature  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Covers representative works from all genres written from 1900 to the present by authors living in the British Empire. Emphasis will be placed on Modernist and Postmodernist works.

ENL 4311  Chaucer  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Canterbury Tales read in Middle English.

ENL 4333  Shakespeare  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Selected comedies, histories and tragedies.

ENL 4341  Milton  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)  
Major and selected poems; emphasis on reading of Paradise Lost.

ENL 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)
ENL 6297  Topics in British Literature to the Romantics
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

ENT-Entrepreneurship Courses

ENT 2612  Entrepreneurial Creativity and Innovation
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

ESE 4322  Instruction, Management, and Assessment: Secondary Education
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)
ESE 4940 Secondary Practicum
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 a practical 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. In order to receive a C- or above in the course, students must earn at least a 'Developing' rating on the Danielson evaluation tool for elements 1a,1b,1c,2a,3e,4e & 4f. Permission is required.

ESE 5905 Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

ESE 5905 Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

ESE 5905 Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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-Engineering Tech: drafting Courses

ETD 2320 Computer Aided Design
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

ETI 4905 Directed Study
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

ETM-Engineeering Tech: Mech Courses

ETM 4905 Directed Study
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

EUH-European History Courses

EUH 1000 Western Perspectives I
Col of Arts, Soc Sci and Human, Department of History
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 Gordon Rule Writing Requirement. Meets Multicultural Requirement.

EUH 1001 Western Perspectives II
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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 4144  The Reformation and Transformation of Europe
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
This course on the European Reformations, will focus on the societal role of religion in the Later Middle Ages, and the economic, social, political, cultural, and institutional changes in Europe through c. 1650. It will include a study of the figures, texts, and movements within the Protestant Reformation, and those in the Catholic (Counter) Reformation. Also included are the revolts and wars over religion, and the legal restrictions on individuals enacted through c. 1650, dramatically changing both state and society.

EUH 4185  Vikings in History and Legend
Col of Arts, Soc Sci and Human, Department of History
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 4242  The First World War
Col of Arts, Soc Sci and Human, Department of History
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  Tranquility and Turmoil: The New Europe, 1918-1939
Col of Arts, Soc Sci and Human, Department of History
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 representative democracy or failed at maintaining it.

EUH 4453  The French Revolution
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Origins, evolutions and consequences of the rise of Nazi Germany, ascendency of Adolf Hitler and subsequent erosion of traditional European culture. Various military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 5467; graduate students will be assigned additional work.

EUH 4503 English Constitutional and Legal History
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Survey course in British history in the modern period. Overview of British history from the end of the Victorian period in 1901 to the present.

EUH 4535 England and America from the Colonial Period to Present
Col of Arts, Soc Sci and Human, Department of History
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 4563 Habsburg Monarchy 1526-1918
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of History
1-12 sh (may be repeated indefinitely for credit)

EUH 5178 Medieval Women
Col of Arts, Soc Sci and Human, Department of History
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
Col of Arts, Soc Sci and Human, Department of History
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 5467 Nazi Germany
Col of Arts, Soc Sci and Human, Department of History
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  
Col of Arts, Soc Sci and Human, Department of History  
1-12 sh (may be repeated indefinitely for credit)

EUH 6338  Seminar: East Central Europe and the Balkans  
Col of Arts, Soc Sci and Human, Department of History  
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  
Col of Arts, Soc Sci and Human, Department of History  
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  
Col of Arts, Soc Sci and Human, Department of History  
1-12 sh (may be repeated indefinitely for credit)

EUH 6925  Seminar: Dirt, Death & Disease in Middle Ages  
Col of Arts, Soc Sci and Human, Department of History  
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  
Col of Arts, Soc Sci and Human, Department of History  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1 sh (may not be repeated for credit)

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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1-12 sh (may be repeated indefinitely for credit)

EVR 4023  Coastal and Marine Environments  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)

Prerequisite: GEO 1200/L OR GLY 2010/L

The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers. Offered concurrently with EVR5071; graduate students will be assigned additional work.

EVR 4035  Environmental Law  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
3 sh (may not be repeated for credit)
Prerequisite: EVR 2920
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 4412  Environmental Aspects of Urban Growth
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

EVR 4941  Internship in Environmental Sciences
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-3 sh (may be repeated for up to 3 sh of 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1 sh (may be repeated for up to 4 sh of credit)

EVR 4970  Research in Earth and Environmental Sciences
College of Sci and Engineering, Department of Earth & 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 6905  Directed Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

EVR 6930  Special Topics in Environmental Sciences
College of Sci and Engineering, Department of Earth & 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.

EVS-Environmental Science Courses

EVS 4192C  Environmental Soil Science
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)
Psychology Courses.

Cognition. It is preferred that the student has had several other cognitive processes and physiological correlates of memory and extinction, reinforcement and punishment, attention, memory, principles and applications of learning theories, including conditioning 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.

Prerequisite: PSY 2012
3 sh (may not be repeated for credit)

College of Health, Department of Psychology

EXP 4404 Psychology of Learning
College of Health, Department of Psychology
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.

Prerequisite: PSY 3213
3 sh (may not be repeated for credit)

Will survey the 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.

Prerequisite: PSY 3213
3 sh (may not be repeated for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

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.

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

1-6 sh (may be repeated for up to 12 sh of 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 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.

1-12 sh (may be repeated indefinitely 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 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.

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

College of Health, Department of Psychology

EXP 5208 Advanced Sensation and Perception
College of Health, Department of Psychology
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.

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

College of Health, Department of Psychology

EXP 5256 Human Factors Psychology
College of Health, Department of 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.

1-6 sh (may be repeated for up to 12 sh of credit)

Sciences

EVS 6971 Thesis
College of Sci and Engineering, Department of Earth & Environmental Sciences
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.

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

College of Sci and Engineering, Department of Earth & Environmental Sciences

EVT-Education: Voc/Technical Courses

EXP 5905 Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely 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.

1-6 sh (may be repeated for up to 12 sh of credit)

Sciences

EVS 6940 Internship
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-3 sh (may be repeated for up to 6 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.

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

College of Sci and Engineering, Department of Earth & Environmental Sciences

EVT 6971 Thesis
College of Sci and Engineering, Department of Earth & Environmental Sciences
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.

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

College of Health, Department of Psychology

EXP 4507 Memory and Cognition
College of Health, Department of Psychology
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.

College of Health, Department of Psychology

EXP 5735 Experimental and Correlational Statistics for Psychology
College of Health, Department of 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.

1-6 sh (may be repeated for up to 12 sh of credit)

Sciences

EVS 6931 Independent Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

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

College of Sci and Engineering, Department of Earth & Environmental Sciences

EVT 6931 Independent Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

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

College of Health, Department of Psychology

EXP 5405 Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

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

College of Health, Department of Psychology

EXP 4905 Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

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

College of Health, Department of Psychology

EXP 5256 Human Factors Psychology
College of Health, Department of 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 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.

1-6 sh (may be repeated for up to 12 sh of credit)

Sciences

EVS 6971 Thesis
College of Sci and Engineering, Department of Earth & Environmental Sciences
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.

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

College of Sci and Engineering, Department of Earth & Environmental Sciences

EVT 6971 Thesis
College of Sci and Engineering, Department of Earth & Environmental Sciences
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.

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

College of Health, Department of Psychology

EXP 4507 Memory and Cognition
College of Health, Department of Psychology
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.

College of Health, Department of Psychology

EXP 5735 Experimental and Correlational Statistics for Psychology
College of Health, Department of 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.

1-6 sh (may be repeated for up to 12 sh of credit)

Sciences

EVS 6931 Independent Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

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

College of Sci and Engineering, Department of Earth & Environmental Sciences

EVT 6931 Independent Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

1-12 sh (may be repeated indefinitely for credit)
**FIL 3427  Film Production I**
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: FIL 3427
This is an introductory course covering single-camera film and television production. Course requirements include basic efficiency with cameras, lighting equipment, sound recording, and editing picture and sound. The theory and practice of Narrative film production, as well as aspects television and documentary production, will be covered.

**FIL 3435  Film Production II**
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: FIL 3427
This is an advanced course covering single-camera film and television production. Course prerequisites include FIL 3427 Film Production I, or permission of the instructor. Course requirements include the ability to use digital production cameras, lighting equipment, sound recording equipment, and editing picture and sound. Advanced theory and practice of narrative film production, as well as television and documentary production, will be covered.

**FIL 4036   History of Motion Pictures**
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Credit may not be received in both FIL 4036 and either FIL 4036C or FIL 4403C.

**FIL 4102   Writing for Film-Television-Radio**
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Study and practice of writing for the mass media: screenplays, teleplays, radio and TV commercials, public affairs. Study of various script formats, story board and other presentational material. Credit may not be received in both FIL 4102 and MMC 4103. Meets Gordon Rule Writing Requirement.

**FIL 4364   Documentary Film and Television**
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Historical and sociological study of the development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 5367; graduate students will be assigned additional work.

**FIL 4905 Directed Study**
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)
FIN 6905 Directed Study  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)  
* This course may be taken prior to or during the same term.

FIN-Finance Courses

FIN 2104 Personal Financial Planning  
College of Business, Department of Accounting & Finance  
3 sh (may not be repeated for credit)  
Survey of personal financial planning topics. Includes: managing money and credit, personal loans, insurance, investments, home ownership, and taxes. Meets General Education requirement in Social Sciences.

FIN 3144 Financial Planning with Business Applications  
College of Business, Department of Accounting & Finance  
3 sh (may not be repeated for credit)  
The course covers the business applications and considerations that owners and employees in various industries face (e.g. insurance, home/auto sales, retirement planning). Furthermore, this course considers a variety of consumer financial issues for personal household management. May not be used to satisfy a Finance elective in either the Finance major or the Finance minor.

FIN 3244 Financial Markets and Institutions  
College of Business, Department of Accounting & Finance  
3 sh (may not be repeated for credit)  
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023  
Structure and functions of financial markets and institutions; interest rates, exchange rates, intermediation, and markets.

FIN 3403 Managerial Finance  
College of Business, Department of Accounting & Finance  
3 sh (may not be repeated for credit)  
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023 AND STA 2023  
Analytical concepts available to financial manager in acquisition and effective utilization of funds in relation to other management functions.

FIN 3461 Financial Statement Analysis  
College of Business, Department of Accounting & Finance  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403  
Introduction to the study of financial statements, including interpreting accounting data and analyzing financial statements. Cross Listed with ACG 3180. Prerequisites: FIN 3403 minimum grade of C.

FIN 3905 Directed Study  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

FIN 4414 Financial Theory and Practice  
College of Business, Department of Accounting & Finance  
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  
College of Business, Department of Accounting & Finance  
3 sh (may not be repeated for credit)  
Prerequisite: (ACG 3101 OR ACG 3180 OR FIN 3461) AND ((FIN 4414 AND GEB 3213))

FIN 4504 Investments  
College of Business, Department of Accounting & Finance  
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  
College of Business, Department of Accounting & Finance  
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  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

FIN 4941 Financial Services Internship  
College of Business, Department of Accounting & Finance  
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  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

FIN 6406 Financial Management  
College of Business, Department of Accounting & Finance  
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.

FIN 6905 Directed Study  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

FLE-Foreign Language Education Courses

FLE 2905 Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)

FLE 3905 Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)
FRE 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

FOL- FOREIGN LANGUAGES Courses

FOL 3301  World Languages and Cultures in Contact
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
4 sh (may not be repeated for credit)
Prerequisite: FRE 1120C
This is a continuation of FRE 1120C, a proficiency-oriented course, emphasizing the mastery of the basic skills of the language. An integrated (multi-media) approach to develop proficiency in all the basic language skills: listening/understanding, speaking, reading, writing and cross-cultural awareness. Students will build on their ability to understand frequently used words in oral contexts, as well as understand and respond appropriately to simple phrases and questions. Emphasis is placed on practical vocabulary and accurate pronunciation. This course is not available to native speakers. Prerequisite is FRE 1120C (minimum grade of C) or successful completion of a placement test.

FRE 1905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

FRE 2200  Intermediate Reading and Translation
Col of Arts, Soc Sci and Human, Department of Government
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 FRE 1121C (minimum grade of C) or successful completion of a placement test.

FRE 2211  Intermediate Composition & Conversation II
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

FRE 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

FRE 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

FRE 4955  Supervised Foreign Language Field Experience Abroad
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

FRW 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)
GEA-Geography: Regional Areas Courses

GEA 2000   Nations and Regions of the World
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 4730   Geography of Japan
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

GEB-General Business Courses

GEB 1011   Introduction to Business
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Business Admin, General
1-12 sh (may be repeated indefinitely for credit)

GEB 5116   Venture Development
College of Business, Department of MBA Office
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
College of Business, Department of MBA Office
3 sh (may not be repeated for credit)
Prerequisite: GEB 4361
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 5535   MBA Foundations
College of Business, Department of MBA Office
3 sh (may not be repeated for credit)
This survey course provides the essential business foundational knowledge needed to take advanced MBA classes. The content covered includes the fundamentals of accounting, business mathematics and statistics, economics, finance, management and marketing. The class is designed for those students who have not completed a business undergraduate degree in the last five years. The course is offered on a satisfactory/unsatisfactory basis.
GEB 5816  MBA Foundations: Principles of Human Resources Management  
College of Business, Department of Management & MIS  
1.5 sh (may not be repeated for credit)  
A course in the Accelerated MBA Foundations Series in which students are introduced to the basic functions of human resource management, including employment law, planning, job analysis, recruitment and selection, training and development, performance management, compensation and benefits, employee and labor relations, safety and health, and international human resource management.

GEB 5870  MBA Foundations: e-Business Systems  
College of Business, Department of MBA Office  
1.5 sh (may not be repeated for credit)  
A course in the Accelerated MBA Foundations Series in which students will gain an understanding of 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  
College of Business, Department of MBA Office  
1.5 sh (may not be repeated for credit)  
A course in the Accelerated MBA Foundations Series in which students will gain an understanding of basic economics. Special emphasis will be placed on the determinants of supply and demand and the desirable properties of a competitive equilibrium; followed by the undesirable properties of markets with a monopoly and with externalities. Permission is required.

GEB 5872  MBA Foundations: Financial Management I  
College of Business, Department of MBA Office  
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 5874  MBA Foundations: Financial Management III  
College of Business, Department of MBA Office  
1.5 sh (may not be repeated for 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  
College of Business, Department of MBA Office  
1.5 sh (may not be repeated for credit)  
Covers the historical evolution of management, organizational design, motivation, team building, leadership, change management, culture, strategic planning, and critical implementation/control elements critical to successful management and strategy. Social responsibility, ethics, globalization, and futures are also stressed.

GEB 5876  MBA Foundations: Marketing Management  
College of Business, Department of MBA Office  
1.5 sh (may not be repeated for credit)  
A course in the Accelerated MBA Foundations Series in which students are introduced to foundational concepts of marketing management processes. Provides students with intensive exposure to the basic philosophy, concepts, and knowledge common to effective marketing management.

GEB 5877  MBA Foundations: Principles of Human Resources Management  
College of Business, Department of Management & MIS  
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 5878  Business Process Integration  
College of Business, Department of MBA Office  
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  
College of Business, Department of MBA Office  
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  
College of Business, Department of Business Admin, General  
1-12 sh (may be repeated indefinitely for credit)
**GEO 3372  Conservation of Natural Resources**
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 4005  Environmental Management & Planning**
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

Prerequisite: EVR 2920

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 4004  Environmental Science, Politics and Policy**
College of Sci and Engineering, Department of Earth & Environmental Sciences
3 sh (may not be repeated for credit)

Prerequisite: ENC 1102

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. Offered concurrently with GEO 5007. Graduate students will be assigned additional work.
### GEO 4164  Geostatistics
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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, microclimate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

### GEO 4250L  Weather and Climate Lab
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

1 sh (may not be repeated for credit)
Prerequisite: GEO 4280*
Co-requisite: GEO 4280

Corresponding Lab for Basic Hydrology.
GEO 4332  Senior Seminar  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 5930; graduate students will be assigned additional work.  

GEO 4357  Environment and Economy  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
Prerequisite: ESC 2000/L  
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. Offered concurrently with GEO 5358. Graduate students will be assigned additional work.  

GEO 4905  Directed Study  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1-12 sh (may be repeated indefinitely for credit)  

GEO 5005  Environmental Science, Politics and Policy  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
This course examines the role of science and politics 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; the role of science in decision making about environmental issues, and how environmental scientists can become better communicators. Offered concurrently with GEO 4004; graduate students will be assigned additional work.  

GEO 5007  Environmental Management and Planning  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
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. Course discusses ways in which we mediate human-environment interactions in order to promote a sustainable biophysical and social environment. Offered concurrently with GEO 4005. Graduate students will be assigned additional work.  

GEO 5165  Geostatistics  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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 5242  Weather and Climate  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
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.

GEO 5243L  Weather and Climate Lab  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1 sh (may not be repeated for credit)  
Prerequisite: GEO 5242*  
A one-credit, practical laboratory course, reinforcing concepts from an associated lecture section, 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 5246  Advanced Climatology and Climate Change  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
A survey of Earth’s climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in Global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO4XX3 (Advance Climatology); graduate students will be assigned additional work.

GEO 5251  Geography of Soils  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  

GEO 5252L  Geography of Soils Lab  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1 sh (may not be repeated for credit)  
Prerequisite: GEO 5261*  
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 5256  Advanced Climatology and Climate Change  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
Prerequisite concepts. Material and supply fee will be assessed.

GEO 5258  Environment and Society  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
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. The course will provide an introductory insight into the history of thinking that has linked the economy and the environment, the main academic endeavors. Offered concurrently with GEO 4357. Graduate students will be assigned additional work.

GEO 5289L  Basic Hydrology Lab  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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. Cross listed with GEO 4280; Graduate Students will be assigned additional work. Co-requisites: GEO 5289L.
GEO 5930  Seminar in Environmental Issues
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)
An overview of the disciplinary evolution of the geosciences, the prevailing paradigms and methodologies, and current and future directions in the field. The scientific method, grant proposals, and research publications will be examined in detail. * This course may be taken prior to or during the same term.

GER-German Courses

GER 1120C  German I
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

GER 2240  German Intermediate Composition and Conversation
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
Prerequisite: GER 1121C
This is an intermediate foreign language course intended for students who have completed German I and II. Students will expand and perfect their ability to speak, read, write and understand German and learn more about German culture. Students explore life in the German-speaking countries through reading, discussing, and engaging with short narrative texts in various ways. The course emphasizes vocabulary building, includes a thorough review of German grammar, and the composition of short texts to develop writing skills. This course is not available for native speakers. GER 1121C (minimum grade of C) or successful completion of placement test is required.

GER 2241  German Intermediate Composition and Conversation II
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
Prerequisite: GER 2240
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 the building of speaking and writing skills, will introduce students to intermediate to advanced German grammar topics, and will engage students in a group project.

GER 2905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

GER 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

GER 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

GEY-Gerontology Courses

GEY 4001  Gerontology
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course addresses the biological impacts of the aging process 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; it addresses many biopsychosocial issues older adults may face in society today and in the future.
GIS-Geographic Inform Syst Courses

GIS 3015 Cartographic Skills
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1 sh (may not be repeated for credit)
Prerequisite: GIS 3015*
Co-requisite: GIS 3015
Corresponding lab for Cartographic Skills.

GIS 3905 Directed Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

GIS 4006 Computer Cartography
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1 sh (may not be repeated for credit)
Prerequisite: GIS 4035*
Co-requisite: GIS 4035
Corresponding lab for Photo Interpretation and Remote Sensing.

GIS 4043 Geographic Information Systems
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 5103 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 GIS4043 with Lab Introduction to GIS is recommended.

GIS 4905 Directed Study
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

GIS 4930 Special Topics in Geographic Information Science
College of Sci and Engineering, Department of Earth & Environmental Sciences
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GIS 4043/L

The Special Topics in GIS course examines scientific methods used to derive useful information from spatial data in real-world situations. We will visit various problems faced by GIS managers and analysts. Students can expect to conduct research, plan projects, import and process various types of data in a GIS, analyze and explore data based on commonly accepted methods, and report conclusions and present results where various formats are explored. Offered as both a stand alone course online and concurrently with GIS 5935 at Pensacola campus where graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed. Basic competency with ArcGIS software is required. Prior coursework including GIS 4043, GIS 4048 and GIS 4102 is recommended.
GIS 4938  Special Topics in GIS for Archaeology
College of Sci and Engineering, Department of Earth & Environmental Sciences
3 sh (may not be repeated for credit)
Prerequisite: GIS 4260
This course will serve as an advanced approach to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
3 sh (may not be repeated for credit)
Introduction to GIS, GIS4043 or GIS5050 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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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 designed 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, GIS4043 or GIS5050 with lab is recommended prerequisite. Offered concurrently with GIS 4035, graduate students will be assigned additional work.

GIS 5050  Geographic Information Systems
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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 5027L  Applications in Geographic Information Systems
College of Sci and Engineering, Department of Earth & Environmental Sciences

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. Credit cannot be received for both GIS 5100 and GEO 5157. Basic competency with ArcGIS software is required. Prior coursework including Introduction to GIS (GIS 4043 or GIS 5050 with lab) is recommended.

GIS 5100  GIS Programming
College of Sci and Engineering, Department of Earth & Environmental Sciences

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
College of Sci and Engineering, Department of Earth & Environmental Sciences

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 archaeological 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 GI 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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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 GIS265 is recommended.

GIS 5945  GIS Internship
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
Prerequisite: GIS 5935  
This course provides practical information on the development, implementation, and 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 towards the last half of the program and before enrolling in GIS 6955 GIS Capstone.

GIS 6905  Directed Study  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1-12 sh (may be repeated indefinitely for credit)

GIS 6955  GIS Capstone  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1 sh (may not be repeated for credit)  
Lab correlating with GLY 2010. Material and supply fee will be assessed.

GLY 3905  Directed Study  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1-12 sh (may be repeated indefinitely for credit)

GLY 4240  Geochemistry  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
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  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
3 sh (may not be repeated for credit)  
Prerequisite: (GEO 1200/L OR GLY 2010/L OR ESC 2000/L) AND (CHM 2045) AND (BOT 2010 OR BSC 1005 OR BSC 2010)  
An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 5266; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 4905  Directed Study  
College of Sci and Engineering, Department of Earth & Environmental Sciences  
1-12 sh (may be repeated indefinitely for credit)
GLY 5246  Geochemistry
College of Sci and Engineering, Department of Earth & Environmental Sciences
3 sh (may not be repeated for credit)
Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 4240; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5266  Biogeochemistry
College of Sci and Engineering, Department of Earth & Environmental Sciences
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
College of Sci and Engineering, Department of Earth & Environmental Sciences
1-12 sh (may be repeated indefinitely for credit)

GRA-Graphic Design Courses

GRA 2111C  Introduction to Graphic Design
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C
An overview of the formal elements of design, contextualized within a framework that stresses experimentation, creativity, innovation, and expression. An introduction to design fundamentals used in all advanced applications of design. An exploration of the principles of design as the necessary foundations for all applied art and design work. Products using vector-based and raster-based design applications to combine type and graphics are oriented towards commercial applications. Material and Supply Fee will be assessed.

GRA 2208C  Typography
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may 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
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may be repeated for up to 9 sh of credit)
Prerequisite: ART 2602C AND GRA 2111C
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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 3225C  Typography II: Publication Design  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: GRA 2208C  
Typography II offers an advanced understanding of typographic conventions and standards (placement, order or chronology, size, weight, leading or interline spacing, column width, alignment, style, orientation, and choice of typeface) and the principles of how legibility and readability affect visual communication for print and web. User experience will also play a role in how information is read, created, and understood. The conventions and standards used are placed within context. Students are introduced to the interconnectedness of systems, with particular focus on what those systems are, how contexts affect the production and interpretation of typographic messages, how meaning is constructed, and structural and relational aspects of hierarchy.  
GRA 3521C  Graphic Design for Interactive Applications  
Col of Arts, Soc Sci and Human, Department of Art and Design  
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 4154C  Advanced Digital Illustration  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may be repeated for up to 9 sh of credit)  
Prerequisite: GRA 3151C  
An advanced class in creating illustration in a digital environment, meant as a further exploration of topics introduced in GRA3151C  
Digital Illustration. Topics including the study of illustration as visual interpretation of words, concepts, and ideas will be explored more thoroughly. Students will continue to develop illustrations in a digital environment based on assigned tasks typical of those given in the professional arena such as advertising, publishing, and editorial illustration while advancing illustration skills and further developing an illustration style of their own.  
GRA 4873C  Exhibition Design Studio  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: GRA 2208C AND GRA 3112C  
The students will work with the graphic design faculty and various arts directors at UWF to learn to produce real world event graphics; arts event collateral including postcards, brochures, and catalogs; exhibition design components including super graphics; and other designs for various UWF Arts events. The students will work in the digital lab as well as on-site/ in-the-field with the museum directors and exhibit designers of the UWF Center for Fine and Performing Arts and the Historic Trust including the Pensacola Museum of Art to produce designs for the various events at the Center and the Trust. Students will respond to professional project briefs to create presentations and project proposals. The implementation of the projects will take place in the field, by students working directly with museum professionals to produce designs to be used in the field, at both the UWF Center for Fine and Performing Arts and the Museums of the UWF Historic Trust.  
GRA 4874C  Senior Design Studio  
Col of Arts, Soc Sci and Human, Department of Art and Design  
3 sh (may not be repeated for credit)  
Prerequisite: ARH 3724 AND GRA 2208C AND GRA 3112C  
Designed for seniors in the Graphic Design BFA program to pursue long term specialized projects in the students’ chosen fields of study. Projects may include the development of a single (or sequential) large-scale design project as well as the design and development of work for the the senior graduation exhibition and the senior graphic design portfolio. Projects will be realized physically as well as in digital/ oral presentation form. May be designated a capstone experience.  
Permission is required. 6 credits total required of Graphic Design majors to be taken in Fall and Spring of Senior Year. Material and Supply Fee will be assessed.
GRA 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Art and Design
1-12 sh (may be repeated indefinitely for credit)

GRA 4930C  Special Topics in Digital Media Design
Col of Arts, Soc Sci and Human, Department of Art and 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
Col of Arts, Soc Sci and Human, Department of Art and 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/Presentation/Exhibition
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: GRA 2208C AND GRA 3112C
Co-requisite: GRA 4874C
This course focuses on the development and execution of the graphic design portfolio across several platforms including print, networked, and website. Additionally, this course focuses on the development of the graphic design presentation, also across multiple platforms including physical/oral and digital/oral. Final, the course focuses on the presentation of graphic communication in space, or the exhibition of graphic design. Topics include creation of personal design identities across multiple platforms and design team collaboration. Interview, job search, and design pitch skills will be discussed and developed through the practice of visual/oral design presentation. Individual assignments will be given to strengthen and round out each portfolio.

GRE-Class Greek (Lang Study) Courses
GRE 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

HFT-Hospitality Management Courses
HFT 2000  Introduction to the Hospitality Industry
College of Business, Department of Global Hosp & Tourism Mgmt
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
College of Business, Department of Global Hosp & Tourism Mgmt
3 sh (may not be repeated for credit)
This course provides the basic knowledge of the tourism and hospitality industry by investigating and understanding the critical importance of managing tourism and hospitality industry for destinations and communities in these destinations. Economic, environmental and sociocultural impacts of tourism and hospitality industry are differentiated and assessed via analyzing the real world examples.

HFT 3214  Hospitality Safety, Sanitation and Risk Management
College of Business, Department of Global Hosp & Tourism Mgmt
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
College of Business, Department of Global Hosp & Tourism Mgmt
3 sh (may not be repeated for credit)
Prerequisite: HFT 2000*
Introduction to human resource management in the hospitality industries with emphasis placed upon motivation and training. Guest satisfaction is dependent upon employee satisfaction; therefore, strategies are explored to combat the high turnover which characterizes hospitality fields.

HFT 3271  Spa Management
College of Business, Department of Global Hosp & Tourism Mgmt
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
College of Business, Department of Global Hosp & Tourism Mgmt
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 2000  
Students will learn a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and account settlement. Various elements of effective front office management will be examined, paying particular attention to the planning and evaluation of front office operations and to human resources management. Front office procedures and management are discussed within the context of the overall operation of a hotel.

HFT 3444 Global Citizenship in Hospitality and Tourism  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 2000  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
1-12 sh (may be repeated indefinitely for credit)  
Prerequisite: HFT 3941 Field Study in Hospitality, Recreation and Resort Management  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
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 HMG 5296; graduate students will be assigned additional work.

HFT 4274 Condominium and Vacation Interval Ownership  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 3414 OR 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  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 3221 AND HFT 4277  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 2000  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: FIN 3403 AND HFT 2000  
Specialized accounting techniques applicable to the hospitality industry; interpret hospitality financial statements, capital investment decision making, financial instruments and concepts; survey of revenue management and analytics related tactics, issues, and trends in the hospitality industry. Perishable inventory with variable demand necessitates effective revenue management to realize the tourism and hospitality mechanism of revenue optimization. Participation in this course will afford students the opportunity to identify and exploit the core elements of revenue management, namely forecasting, controls (pricing and allocation/optimization decisions) and monitoring. This course aims for students to establish a reasonable level of relevant analytical/technical proficiency in each one of these core revenue management elements. Within the broader area of pricing theory, additional emphasis is placed on overbooking, consumer behavior, distribution channel management, and market segmentation. Utilizing STR hospitality metrics, students will develop hotel analytical skills and the opportunity to sit for the Certification in Hotel Industry Analytics (CHIA) exam administered by American Hotel and Lodging Educational Institute (AHLEI). Upper level status is required. Offered concurrently with HMG 5466; graduate students will be assigned additional work.

HFT 4462  Revenue Management for Hospitality Business  
College of Business, Department of Global Hosp & Tourism Mgmt  
3 sh (may not be repeated for credit)  
Prerequisite: HFT 4426  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
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 4753  Special Event Management  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
1-12 sh (may be repeated indefinitely for credit)  

HFT 4940  Internship in Hospitality Management  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
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*  
Students are required to work a total of 800 paid hours in a hospitality industry position to complete their degree. This is the first of 3 internship classes. Work in hospitality or tourism industry 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 participating in a faculty lead class. Permission is required to enroll.

HFT 4946  Global Leadership Development II: Cross-Functional Training  
College of Business, Department of Global Hosp & Tourism Mgmt  
1 sh (may not be repeated for credit)  
Prerequisite: HFT 4945  
Internship is an experiential learning experience that integrates theory into practice by honing skills and knowledge development in a hospitality setting. Students have the opportunity to make connections in hospitality fields and learn more about the industry. A total of 800 hours are required for completion of the program. GLD, GLDII, and GLDIII are to be taken in sequence. Permission is required to enroll.

HFT 4947  Global Leadership Development III: Insights into Management  
College of Business, Department of Global Hosp & Tourism Mgmt  
1 sh (may not be repeated for credit)  
Prerequisite: HFT 4946  
Internship is an experiential learning experience that integrates theory into practice by honing skills and knowledge development in a hospitality setting. Students have the opportunity to make connections in hospitality fields and learn more about the industry. A total of 800 hours are required for completion of the program. GLD, GLDII, and GLDIII are to be taken in sequence. Permission is required to enroll.

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

HIS-Gen History Historiograp Courses

HIS 2050  Explore! History  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This course provides an in-depth experience for students to learn about a specific topic in history. Each course is designed to introduce students to the field of history, explore how history majors practice their craft, and to learn about career opportunities. Meets General Education requirement in Social Sciences. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

HIS 3002  The Historian's Craft  
Col of Arts, Soc Sci and Human, Department of History  
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  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
Provides an interdisciplinary introduction to the theoretical and social issues regarding diverse groups and gender stereotypes. Focuses on how gender and diversity fit into the actions and interactions of the private and public sectors, and presents information on how to effectively promote institutions, relationships, politics, and services that value diversity and eliminate gender stereotypes.
HIS 3930  Junior Seminar  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
Prerequisite: HIS 3002  
The Junior Seminar acts as a 'capstone' course for history majors in their Junior year. This course provides the student with an opportunity to refine and practice skills learned in previous courses and to produce a work of historical scholarship. Each student will conduct original research and write a paper based on primary and secondary sources. At the end of the semester the student will give an oral presentation.

HIS 4066  Local History  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
Introduction to theory, methodology, and application of local history. Required attendance on field trips to local historical archives, museums, and sites.

HIS 4072  Oral and Community History  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 5077; graduate students will be assigned additional work.

HIS 4164  Doing Digital History  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
Surveys the key topics, debates, and methodologies of digital history. Students create a digital history project. Offered concurrently with HIS 5165; graduate students will be assigned additional work.

HIS 4284  Maritime History  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
Examines the Atlantic World through the experiences of African, European, and American Women. Explores how women fit within the continuously evolving multicultural setting of the sixteenth, seventeenth, and eighteenth centuries. Meets Multicultural Requirement.

HIS 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of History  
1-12 sh (may not be repeated indefinitely for credit)

HIS 4935  Senior Seminar  
Col of Arts, Soc Sci and Human, Department of History  
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  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of History  
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 then 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  
Col of Arts, Soc Sci and Human, Department of History  
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 5066  Local History
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Introduction to theory, methodology, and application of local history. Required attendance on field trips to local historical archives, museums, and sites. Offered concurrently with HIS 4066; graduate students will be assigned additional work.

HIS 5077  Oral and Community History
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 4072; graduate students will be assigned additional work.

HIS 5087  Advanced Museology
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Historical museum operation: philosophy, administration, ethics, and public responsibility.

HIS 5165  Doing Digital History
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Surveys the key topics, debates, and methodologies of digital history. Students create a digital history project. Offered concurrently with HIS 4164; graduate students will be assigned additional work.

HIS 5515  History of Architecture
Col of Arts, Soc Sci and Human, Department of 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 Seminar
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Seminar examines the core concepts, principles, processes, and methodologies of Public History. The course also includes an introduction to foundational applied methodologies.

HIS 6056  Public History Practicum
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Prerequisite: HIS 6056
Practicum introduces students to multiple aspects of Public History practice through placement in a non-profit museum, archive, or other relevant institution. Students participate in the full range of activities available in the setting under the direct supervision of on-site professionals while completing aligned coursework with History Department faculty. Minimum of 160 hours required at the partnering site.

HIS 6083  Historic and Heritage Preservation Seminar
Col of Arts, Soc Sci and Human, Department of History
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 6085  Historic Preservation Certificate Capstone
Col of Arts, Soc Sci and Human, Department of History
1 sh (may not be repeated for credit)
Prerequisite: ANG 6196 AND HIS 5087 AND HIS 6055
This is the capstone professional research project for the Historic Preservation Graduate Certificate Program. In concern with HP faculty and the Historic Preservation Certificate program coordinator students will select a historic property for evaluation using the standards and format specified by the U.S. Secretary of Interior under the National Historic Preservation Act of 1966. The coordinator and associated HP faculty must approve the project. The project culminates in draft nomination for the National Register of Historic Places. Students must have completed all required courses for the Historic Preservation Certificate before completing the capstone project for evaluation. Satisfactory completion of the project is required to receive the Certificate.

HIS 6089  Capstone Public History Internship
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Prerequisite: HIS 5063 AND HIS 6055 AND HIS 6056
This required capstone internship experience provides an extended practical experience in the field of public history under the supervision of an on-site professional at an institution or agency such as a local, state, or national museum; archive; historic preservation site; oral history program; historic district; or other relevant non-profit organization. Students submit an individual portfolio, developed over the course of the program, for evaluation. Minimum of 220 hours required at the partnering site.

HIS 6085  Historic and Heritage Preservation Seminar
Col of Arts, Soc Sci and Human, Department of History
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 6083  Historic and Heritage Preservation Seminar
Col of Arts, Soc Sci and Human, Department of History
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 6089  Capstone Public History Internship
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Prerequisite: HIS 5063 AND HIS 6055 AND HIS 6056
This required capstone internship experience provides an extended practical experience in the field of public history under the supervision of an on-site professional at an institution or agency such as a local, state, or national museum; archive; historic preservation site; oral history program; historic district; or other relevant non-profit organization. Students submit an individual portfolio, developed over the course of the program, for evaluation. Minimum of 220 hours required at the partnering site.
HIS 6450  Comparative Slaveries in the Atlantic World
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Everyone can agree on the magnitude, impact, and violence of the trans-Atlantic African slave trade. What is less known are the diversity of actors who participated in this trade. From Prussian merchants to African kings and Canary Islanders, this course investigates the many faces of the Atlantic and Pacific slave trades. We will also compare and contrast the African trade with the Indian slave trades (trades in the Circum-Caribbean to the Southeastern U.S. as well as the trade from the Philippines to Central America) to see how each business affected one another. In addition we look at the diverse ways that different European powers approached slavery. Finally, we will focus on the many strategies for survival employed by Indian, Chino, and African slaves in the face of unimaginable violence and exploitation. It is in the resistance and agency of slaves that we find the seeds of present day African American culture.

HIS 6904  Directed Readings
Col of Arts, Soc Sci and Human, Department of History
1-3 sh (may not be repeated for credit)
Permission is required.

HIS 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of History
1-12 sh (may be repeated indefinitely for credit)

HIS 6911  Master's Research
Col of Arts, Soc Sci and Human, Department of History
1-3 sh (may be repeated for up to 3 sh of credit)
Permission is required.

HIS 6946  Public History Internship
Col of Arts, Soc Sci and Human, Department of History
3 sh (may not be repeated for credit)
Prerequisite: HIS 5063 AND HIS 6055 AND HIS 6056
The internship provides an extended practical experience in the field of public history under the supervision of an on-site professional at an institution or agency such as a local, state, or national museum; archive; historic preservation site; oral history program; historic district; or other relevant non-profit organization. Minimum of 220 hours required at the partnering site. Permission required.

HIS 6956  Advanced Overseas and Field Study in History
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of History
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

HLP 4905  Directed Study
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

HLP 4922  Field Experience
College of Health, Department of Movement Sciences and Health
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 5905  Directed Study
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

HLP 6535  Research Procedures
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

HLP 6922  Field Experience
College of Health, Department of Movement Sciences and Health
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
1-6 sh (may be repeated for up to 6 sh of credit)  
Graded on a satisfactory / unsatisfactory basis only. Permission is required.

HLP 7001  Promoting Physical Activity for Youth and Adults  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
This course focuses on the current physical activity recommendations for youth and adults. Emphasis is placed on the benefits of physical activity on various health outcomes; determinants of physical activity; how to measure physical activity at the individual and population levels; policy approaches to promote active living; and strategies to promote physical activity.

HLP 7306  Planning and Designing Health and Physical Activity Programs  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
This course is designed to enhance students' knowledge and abilities related to curriculum development in Health and Physical Activity programs. Course activities will guide students through analyses of current programs, identification of needs, framework and curriculum development, and instructional strategies and practice construction. Students will use evidence from research and practice to both develop and support content.

HLP 8002  Leadership in Health and Physical Activity  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
This course is designed to provide students with a detailed understanding of how health and physical activity program areas are impacted by higher education, grants, research, and the community. Content will prepare students to embrace and utilize activities that play supportive roles in health and physical activity management, administration, services, and promotion.

HLP 8003  Health and Physical Activity Research Methodology  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
This course is designed to provide students with a detailed understanding of how health and physical activity program areas are impacted by higher education, grants, research, and the community. Content will prepare students to embrace and utilize activities that play supportive roles in health and physical activity management, administration, services, and promotion.

HLP 8515  Development and Administration of Health and Physical Activity Programs  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
This course examines the models and process to systematically plan, implement, administer, and evaluate health and physical activity programs. Students will develop skills in assessment, planning, administering, and evaluating health and physical activity programs through extensive literature review, class discussions, and presentations. Course will emphasize importance of teams and partnerships in successful health and physical activity programs.

HMG-Hospitality Management Graduate Courses

HMG 5296  Advanced Global Hospitality and Tourism Shared Economies  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt  
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  
College of Business, Department of Global Hosp & Tourism Mgmt
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  
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course provides an orientation to the characteristics of the U.S. Healthcare delivery system including a review of utilization, organization, hospitals, integrated systems, quality, insurance, policy, and technology. Meets Gordon Rule Writing Requirement.

HSA 3140  Strategic Planning in Healthcare  
College of Health, Department of Health Sciences & Admin
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  
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course provides students with an introduction to the fundamentals of healthcare finance as practiced in health services organizations. The course will enable students entering administrative 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  
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course includes an overview of ethical issues facing today’s healthcare 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 healthcare consumers and other medical professionals in the healthcare industry.

HSA 4002  Healthcare Administration  
College of Health, Department of Health Sciences & Admin
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  
College of Business, Department of Management & MIS
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  
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Provides an overview of various health information such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed. Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching.

HSA 4192  Current Topics in Health Informatics  
College of Health, Department of Health Sciences & Admin
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  
College of Health, Department of Health Sciences & Admin
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  
College of Health, Department of Health Sciences & Admin
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  
College of Health, Department of Health Sciences & Admin
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 4430  Health Economics
College of Health, Department of Health Sciences & Admin
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  Healthcare Operations
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course explores the application of operational concepts to healthcare organizations. Students will gain a solid foundation in operations and processes to improve the efficiency and effectiveness of delivering healthcare.

HSA 4703  Coordinating Clinical Trials
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Health Sciences & Admin
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 4941  Internship
College of Health, Department of Health Sciences & Admin
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
College of Business, Department of Management & MIS
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 5198  Electronic Clinical Record Systems
College of Health, Department of Health Sciences & Admin
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 5905  Directed Study
College of Health, Department of Health Sciences & Admin
1-12 sh (may be repeated indefinitely for credit)

HSA 6103  Health Services Administration
College of Health, Department of Health Sciences & Admin
1.5 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 6106  Health Delivery Systems
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course explores healthcare delivery in the United States. Examines healthcare systems in other countries along with covering topics including American beliefs and values related to healthcare delivery, evolution of health services in the United States, health service professions, influence of medical technology, and the financing of health services.

HSA 6175  Healthcare Finance
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Health Sciences & Admin
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 6385  Quality Improvement Processes in Health Organizations
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: HSA 6752
This course provides an overview of methods to improve healthcare systems and healthcare delivery using quality improvement theories and frameworks to execute an improvement project. Students will learn to focus on identifying opportunities to improve processes, developing methods to identify factors that affect process, and using data to determine appropriate actions.

HSA 6425  Healthcare Law
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course provides an overview of laws most affecting healthcare practices. The legal basis for government involvement in healthcare is examined with an analysis of the laws controlling the provision of healthcare industry and professional regulations. This course provides and in-depth overview of healthcare law, allowing students to acquire skills to confirm their actions to legal requirements and ethically analyze daily healthcare situations. Although no prerequisites are required, HSC 6206 is recommended prior to taking this course.

HSA 6435  Decision Making in Healthcare
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: HSA 6175
This course explores financial topics, theory, tools, and decision making in healthcare while analyzing cases. This course builds on topics covered in HSA6175 Healthcare Finance. Prerequisite: Grade of C or higher in HSA6175.

HSA 6436  Health Economics
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: GEB 5871
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. Prerequisite: GEB 5871 or its equivalent with a grade of C (2.0) or better to enroll.

HSA 6521  Critical Analysis of Health
College of Health, Department of Movement Sciences and 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
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: HSA 6425 AND HSA 6436
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
College of Health, Department of Health Sciences & 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
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Movement Sciences and 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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Movement Sciences and Health
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  Career Essentials for Healthcare
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course provides an overview of the field of health sciences and introduces students to essential skills required for career success in various healthcare professions. Content will also cover important issues facing today's healthcare environment.

HSC 3102  Health Science Essentials of Behavior Analysis
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
This course is designed to provide the curriculum requirements necessary to become a Registered Behavior Technician (RBT). Completion of this course, together with practical and exam requirements (stipulated by the Behavior Analyst Certification Board), may help students qualify for employment opportunities in the field of healthcare. For those interested in pursuing a career path in the field of health, this course is the first in a series of courses designed to meet the curriculum requirements to become a Board Certified Assistant Behavior Analyst. This course serves as a basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts, in conjunction with instruction on the ethical implementation of Behavior Analysis. The content is based on the Behavior Analyst Certification Board (BACB) Task List and the Registered Behavior Technician Task List posted on the BACB website. The course is offered independent of the BACB.

HSC 3114  Problem Identification and Functional Assessment in Health Science
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)
Prerequisite: HSC 3102
For those interested in pursuing a career path in the field of health, this course is the second in a series of courses designed to meet the curriculum requirements to become a Board Certified Assistant Behavior Analyst. This course provides in-depth analysis of behavior analytic principles, definitions, characteristics, processes, and concepts, in conjunction with instruction on the ethical implementation of Behavior Analysis. Students learn the knowledge and skills to conduct meaningful functional assessments in multiple applications within the health context from leadership and management to individual clinical practice. The content is based on the Behavior Analyst Certification Board (BACB) Task List and the Registered Behavior Technician Task List posted on the BACB website. The course is offered independent of the BACB.

HSC 3147  Pharmacology for Health Professionals
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Public Health
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
College of Health, Department of Health Sciences & Admin
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
College of Sci and Engineering, Department of Biology
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

HSC 3991  Special Topics Course
College of Health, Department of Health Sciences & Admin
1-12 sh (may be repeated indefinitely for credit)

HSC 3992  Special Topics Course
College of Health, Department of Health Sciences & Admin
0-12 sh (may be repeated indefinitely for credit)

HSC 3993  Special Topics Course
College of Health, Department of Health Sciences & Admin
1-12 sh (may be repeated indefinitely for credit)

HSC 4050  Health Sciences Capstone Course
College of Health, Department of Health Sciences & Admin
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Enables students to make intelligent decisions about the healthcare marketplace. Basic information regarding health care products, services and consumer protection will be of central focus.

HSC 4133  Health Aspects of Human Sexuality
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 4144  Human Environmental Health
College of Health, Department of Movement Sciences and 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  Health Aspects of Stress Management
College of Health, Department of Movement Sciences and Health
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  
College of Health, Department of Health Sciences & Admin  
3 sh (may not be repeated for credit)  
Introduces students to facets of natural and technological disasters while integrating public health research designs and practices. Class lectures and discussions utilize recent and historical case studies as a basis for developing the critical thinking and leadership skills needed by healthcare professionals in crisis situations. International, domestic, and regional settings are addressed, as well as the social, economic, and political aspects of disaster planning, preparedness, and mitigation. Basic public health concepts and methodologies as they relate to course material. Permission is required.

HSC 4500  Epidemiology  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences 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 4580  Functional Applications of Applied Behavior Analysis in Health Science  
College of Health, Department of Health Sciences & Admin  
3 sh (may not be repeated for credit)  
Prerequisite: HSC 3102 AND HSC 3114 AND HSC 4720  
This course is the fourth in a series designed to provide students with the necessary knowledge to be eligible for a career as a Board Certified assistant Behavior Analyst in the field of health. Building on the basic concepts of behavior analysis, functional assessment, and systematic measurement this course serves as an overview of functional applications of behavior analysis in health contexts from leadership and management to individual clinical and therapeutic practice. The content is based on the Behavior Analyst Certification Board (BACB) Task List posted on BACB website.

HSC 4581  Health Promotion and Planning  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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 4633  Current Issues in Health Promotion  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
A study of current and emerging health issues affecting communities on a local and global level. Health promotion programs, approaches, and measures will be examined. Emphasis will be placed on environment, health care, behavioral health, lifestyle factors, social determinants of health, and communicable diseases. This course is designed to provide a comprehensive overview of fundamental research tools, methods, and concepts for assessing health promotion issues.

HSC 4654  Ethical Considerations in Analysis of Behavior in Health Science  
College of Health, Department of Health Sciences & Admin  
1 sh (may not be repeated for credit)  
Prerequisite: HSC 3102 AND HSC 3114 AND HSC 4580 AND HSC 4720  
This course provides students with the necessary knowledge to be eligible for a career as a BCaBA in the field of health. Building on the basic concepts of behavior analysis, this course further develops knowledge of practice by considering ethical aspects of decision making in practice, current law and policy, and advocacy. The emphasis of this course is on the ethical application of behavior analysis in context. The content is based on the BACB Task List.

HSC 4658  End-of-Life Ethics  
College of Health, Department of Health Sciences & Admin  
3 sh (may not be repeated for credit)  
An examination of key issues and cases in end-of-life ethics. Credit may not be received in both HSC 4658 and HSC 4654.

HSC 4720  Methodology in Applied Behavior Analysis in Health Science  
College of Health, Department of Health Sciences & Admin  
3 sh (may not be repeated for credit)  
Prerequisite: HSC 3102 AND HSC 3114  
This course is the third in a series designed to provide students with the necessary knowledge to be eligible for a career as a Board Certified Assistant Behavior Analyst in the field of health. Building on the basic concepts of behavior analysis, this course further develops knowledge of measurement, experimental design, behavior change considerations, and ethics. Students learn the knowledge and skills to precisely observe, measure, and design basic assessments and evaluations in multiple applications within the health context from leadership and management to individual clinical practice. The content is based on the Behavior Analyst Certification Board (BACB) Task List posted on the BACB website.

HSC 4730  Research Methods and Evaluation in Health Promotion  
College of Health, Department of Movement Sciences and Health  
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 4905  Directed Study  
College of Health, Department of Movement Sciences and Health  
1-12 sh (may be repeated indefinitely for credit)

HSC 4910  Senior Capstone Experience in Health Promotion  
College of Health, Department of Movement Sciences and Health  
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 4936  Accelerated Topics in Behavior Analysis in Health Science  
College of Health, Department of Health Sciences & Admin  
2 sh (may not be repeated for credit)  
Prerequisite: HSC 3102 AND HSC 3114 AND HSC 4580 AND HSC 4720  
Provides students with the necessary knowledge to be eligible for a career as a Board Certified Assistant Behavior Analyst in the field of health. This course utilizes previous knowledge of behavior analysis and synthesizes key components into a comprehensive application of expertise regarding measurement, assessment, and behavior change procedures. The content is based on the Behavior Analyst Certification Board (BACB) Task List.

HSC 4991  Special Topics Course  
College of Health, Department of Health Sciences & Admin  
1-12 sh (may be repeated indefinitely for credit)

HSC 4992  Special Topics Course  
College of Health, Department of Health Sciences & Admin  
1-12 sh (may be repeated indefinitely for credit)
HSC 5205  Public Health Preparedness  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
Introduces types of disasters, the national incident management systems and its role in disaster planning, prevention, and mitigation. The structure and organization of medical disaster response, exercises, emergency communication, rapid health assessment, surveillance, and triage. Introduces the public health role in responding to chemical, biological, disease, radiological, nuclear, and explosive incidents. Also covers social/mental health, environmental services, ethical, and legal issues in disasters. Introduces evaluation methods for assessing the medical and public health responses.

HSC 5506  Advanced Epidemiology  
College of Health, Department of Movement Sciences and Health  
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 5905  Directed Study  
College of Health, Department of Movement Sciences and Health  
1-12 sh (may be repeated indefinitely for credit)  

HSC 6037  Philosophical Foundations of Health Education  
College of Health, Department of Movement Sciences and Health  
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 Literacy and Cultural Competency  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
The course examines the roles of health educators, public health professionals, health administrators, and other health professionals in providing culturally competent guidance and programming to consumers of health services. The course provides insight into the history of healthcare, examination of the role of culture in health and healing, health literacy, current issues, and challenges facing healthcare in contemporary society. Students will be challenged to integrate research and theory of health literacy principles as they apply concepts related to health communications and cultural competency.

HSC 6226  Current Issues in Worksite Wellness  
College of Health, Department of Movement Sciences and Health  
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 6228  Prevention of Infectious Diseases  
College of Health, Department of Public Health  
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  
College of Health, Department of Movement Sciences and Health  
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 6576  Health Education Program Planning and Evaluation  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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.
planning a healthy diet.

by examining weight control, disease prevention, food safety, and addition, emphasizes are placed on a promotion of growth and health roles in the body while examining current issues in food science. In status. It provides students with an understanding of nutrients and their absorption, metabolic pathways, energy requirements, and nutritional on the biochemical and physiological mechanisms of digestion, This course explores the fundamentals of nutrition with emphasizes that influence translational health and physical activity research.

HUM-Humanities Courses

HUM 4911 Interdisciplinary Humanities Capstone
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

HUN-Human Nutrition Courses

HUN 2201 Fundamentals of Human Nutrition
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)

This course explores the fundamentals of nutrition with emphasizes 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, emphasizes 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
Academic Engagement, Department of Honors Program
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 notion of the 'the human' as it emerges in Western thought. Topics include philosophy, neuroscience, animal intelligence, and contemporary clashes over human rights and human dignity. Students enrolling in Core 1 should be interested in a broad array of subject areas related to the theme of 'the human' and possess the social and intellectual maturity required to address complex and controversial topics with objectivity and respect for others. 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 the Gen Ed Humanities requirement. Offered Fall Semester only. Meets General Education requirement in Humanities. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

IDH 1041 Honors Core 2
Academic Engagement, Department of Honors Program
3 sh (may not be repeated for credit)

Honors Core 1 and Honors Core 2 establish the foundation of the academic experience unique to the Honors program at the University of West Florida. In Honors Core 2, students will explore the philosophical underpinnings of community and investigate the distinctive features of Western and Eastern notions of communal life. This foundation will prepare students to address those features of modern society that threaten community. Specific attention will be given to various threats to community, including radicalism and globalization, mass society and suburban sprawl, lawlessness and violence, technology and social networking, and economic arrangements and collective action problems. Students then will consider the ways in which citizens can benefit from engaging their communities of interest, can foster more meaningful civic life, and can provide leadership to build a better future. Honors Core 2 is designated as a General Education course. The General Education curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting your requirement in the Social Science, Socio-Political Perspectives area. The major General Education learning outcomes for this course are Analysis / Evaluation, Information Literacy, Team Work Skills, and Service Learning / Civic Engagement. Offered Spring Semester only. Meets General Education requirement in Social Sciences. Meets Multicultural Requirement.

IDH 2905 Directed Study
Academic Engagement, Department of Honors Program
1-12 sh (may be repeated indefinitely for credit)
IDH 3055  Honors Thesis Research Methods
Academic Engagement, Department of Honors Program
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 3701  Service Learning and E-Portfolio Development
Academic Engagement, Department of Honors Program
1 sh (may be repeated for up to 3 sh of credit)
Students will learn about Honors service projects in the Pensacola community and develop a plan for getting involved in one or more projects. Students will also learn how to access and develop the online e-portfolio software and study basic approaches to e-portfolio development.

IDH 3905  Directed Study
Academic Engagement, Department of Honors Program
1-12 sh (may be repeated indefinitely for credit)

IDH 4030  Honors Seminar: Topic I
Academic Engagement, Department of Honors Program
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
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4032  Honors Seminar: Topic III
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4033  Honors Seminar: Topic IV
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4034  Honors Seminar: Topic V
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4035  Honors Seminar: Topic VI
Academic Engagement, Department of Honors Program
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 4036  Honors Seminar: Topic VII
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4037  Honors Seminar: Topic VIII
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4038  Honors Seminar: Topic IX
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4039  Honors Seminar: Topics X
Academic Engagement, Department of Honors Program
3 sh (may be repeated for up to 12 sh of credit)
Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4905  Directed Study
Academic Engagement, Department of Honors Program
1-12 sh (may be repeated indefinitely for credit)

IDH 4970  Honors Thesis
Academic Engagement, Department of Honors Program
1-6 sh (may be repeated for up to 6 sh of credit)
Capstone project for University Honors Program. Formal presentation of research / creative activity. Open to Honors students only. Graded on satisfactory / unsatisfactory basis only. Permission is required.
IDS-Interdisciplinary Studies Courses

IDS 4890  Senior Capstone
Col of Arts, Soc Sci and Human, Department of Arts, SS, and Hum, Dean
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
College of Health, Department of 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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

INP 4224  Psychology of Workforce Diversity
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

INP 5131  Legal Issues in Industrial/Organizational Psychology
College of Health, Department of 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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

INP 6216  Personnel Selection and Appraisal
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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 6605  Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

INP 6944  Practicum in Industrial Psychology
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for 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
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)

INR 3035  International Political Economy
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
This is a course on International Political Economy, with a focus on globalization processes. Its main goal is to provide students with a theoretical and critical understanding of the ways international financial and trade markets interact with governments and how this interaction has changed in the postwar period. The course examines the following questions: Who wins and who loses from globalization of trade and finance? Who sets the rules under which the game of international capitalism is played? How powerful are international organizations like the WTO, the IMF, and the EU vis-à-vis nation-states? What are the causes and effects of financial crises? These issues are explored with reference to economic and political theories, history and contemporary events.

INR 3073  Analyzing Issues in International Politics
Col of Arts, Soc Sci and Human, Department of Government
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 3503  Model United Nations
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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 4061  International Conflict
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
This course examines some of the primary theories of the origins and termination of interstate war. The course begins with a discussion of the logic and empirical support for a number of popular hypotheses and questions on war. Do leaders start war to divert attention from domestic problems? Does trade promote peace? Do alliances deter or entrap? Do arms races promote peace? Does a balance of power promote peace? The discussion of these questions and hypotheses leaves us with a new one. Given that war is costly, why are the contending sides unable to reach a settlement short of the major use of armed force? The course concludes with a discussion of the termination of war.

INR 4102  American Foreign Policy
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 4124  Statecraft
Col of Arts, Soc Sci and Human, Department of Government
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.
INR 4205  Spying: Fact or Fiction
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
The objective of this course is to immerse the students in the world of human intelligence collection and counterintelligence. Students will explore and examine various aspects of espionage among great powers in the period since 1945. Focus of the course will be in demonstrating the real world contrast to human intelligence (HUMINT), counterintelligence (CI) and espionage activities revealed in six spy novels. Studies will touch on operations by the German, French, British, Soviet and US HUMINT and CI agencies supporting their nation’s vital national interests from World War II to the present.

INR 4224  War and Peace in East Asia
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 4314  Grand Strategy in International Relations
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 4334  National Security Policy
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
This course introduces students to the basic concepts, theoretical debates and practical policy issues surrounding American national security. It examines the historical setting and the major theoretical traditions surrounding the study of national security. It explores the context of national security domestically and internationally, including key players in both the international system and the US political system. The role of institutions of the national security establishment will be considered such as the executive branch of the US government including the President, the National Security Council, the Department of Defense, and intelligence agencies as well as the roles for the legislative branch in the U.S. Congress. The course also looks at the policy-making process in national security decision-making. Multiple historical cases will be considered with applications of key concepts and theories from the class.

INR 4364  Intelligence
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
This course explores the National Foreign Intelligence Community (NFIC). It examines how organizational factors, resources, management and oversight affect the process of supporting the development and executing U.S. National Security Policy. It covers the evolution, organization, oversight, funding and responsibilities of the NFIC: the relationships of the intelligence providers, especially the Director of National Intelligence (DNI), with key policymakers and overseers such as the President, National Security Council, senior executives; the CONGRESS, its relevant committees and staffs; as well as the courts, the media and public opinion.

INR 4403  International Law
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)
INR 5065  Causes of War
Col of Arts, Soc Sci and Human, Department of Government
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 5088  International Conflict
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)

This course examines some of the primary theories of the origins and termination of interstate war. The course begins with a discussion of the logic and empirical support for a number of popular hypotheses and questions on war. Do leaders start war to divert attention from domestic problems? Does trade promote peace? Do alliances deter or entrap? Do arms races promote peace? Does a balance of power promote peace? The discussion of these questions and hypotheses leaves us with a new one. Given that war is costly, why are the contending sides unable to reach a settlement short of the major use of armed force? The course concludes with a discussion of the termination of war.

INR 5105  American Foreign Policy
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 5129  Statecraft
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 5316  Grand Strategy in International Relations
Col of Arts, Soc Sci and Human, Department of Government
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.

INR 5330  National Security Policy, Technology and Cyber
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)

This course introduces the basic concepts, theoretical debates and practical policy issues surrounding American national security with a focus on technology policy. Technological innovation changes history. It creates new threats, opens opportunities, upends economies, and allows new types of interaction. It also pressures political leaders to innovate and adapt national security policy. This course presents several different approaches to the analysis of technology and national security. It starts with world historical analyses before turning to more recent theories of politics, innovation, and national security. Throughout, the course focuses particularly on cybersecurity as an evolving policy challenge, and it concludes with a concentrated set of readings on the topic. This is a seminar, and students should be prepared to present and evaluate each day’s assigned reading. The course may include several written and oral assignments such as short briefings, research projects or papers, and essay questions on exams.

INR 5365   Intelligence
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)

This course explores the National Foreign Intelligence Community (NFIC). It examines how organizational factors, resources, management and oversight affect the process of supporting the development and executing U.S. National Security Policy. It covers the evolution, organization, oversight, funding and responsibilities of the NFIC: the relationships of the intelligence providers, especially the Director of National Intelligence (DNI), with key policymakers and overseers such as the President, National Security Council, senior executives; the CONGRESS, its relevant committees and staffs; as well as the courts, the media and public opinion.
INR 5547  War and Peace in East Asia  
Col of Arts, Soc Sci and Human, Department of Government  
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.

INR 5769  Religion and International Politics  
Col of Arts, Soc Sci and Human, Department of Government  
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.

INS 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

INS-International Studies Courses

ISC 5905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

ISC 6529  Research Methods in Intelligent Systems and Robotics  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for credit)  
This seminar course introduces students to research methods in Intelligent Systems and Robotics at the academic level. They will read research papers, participate in active research projects, and practice preparing and presenting research presentations. They will also be introduced to grant writing and proposal preparation. This course will also be an opportunity for the students to familiarize with the research conducted at the ISR Department and at IHMC. Department faculty and IHMC researchers will present on their research in order to expose students to the research projects conducted in the department. Research methods such as literature search, experiment design, technical writing, etc. will also be covered. This course is required for all ISR PhD students in Computer Science. The content of this course varies from semester to semester.

ISC 7248  Deep Reinforcement Learning  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
3 sh (may not be repeated for credit)  
Prerequisite: EEE 6772  
This course addresses deep learning and reinforcement learning and their combination in deep reinforcement learning. Topics include reinforcement learning techniques such as dynamic programming, value iteration, policy iteration, and actor-critic methods. Deep learning techniques include convolution neural networks and learning through backpropagation. These techniques will be combined to create learning policies for various control applications. Extensive software projects will utilize open source libraries from several sources. Students will implement solutions to various problems, including agents learning to play video games and bipedal walking robot simulations. Students are expected to have a background in data structures and algorithms, linear algebra, Calculus II or equivalent, linear differential equations, and control theory.

ISC 8980  Dissertation  
College of Sci and Engineering, Department of Intelligent Systems & Robotics  
1-24 sh (may be repeated for up to 24 sh of credit)  
This course is the major individual research in a relevant research area. The dissertation reflects intensive 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.
ISM-Information Systems Mgmt Courses

ISM 3011 e-Business Systems Fundamentals
College of Business, Department of Management & MIS
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 Introduction to Business Analytics
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
This course 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. Visualization techniques are also shown.

ISM 3235 Business Development Environments
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011
A project-based introduction to the principles of business information systems design, including the basic methods and procedures involved in planning and controlling the development and modification of a computer-based information system in an organization. Students use modern microcomputer-based, computer-aided systems design tools and techniques to complete design projects. Focuses on the importance of end-user specifications for information systems projects.

ISM 4114 Business Information Systems Development
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: ISM 4113
An advanced course in the application of emerging information technologies to the development of business information systems. Students integrate knowledge from previous courses to plan, analyze, design, and implement a comprehensive, real-world, project. Emphasis is on the integration of business requirements with emerging information technologies to develop the business information systems framework.

ISM 4117 Business Intelligence Applications
College of Business, Department of Management & MIS
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 4320 Legal, Ethical, and Human Aspects of Cybersecurity
College of Business, Department of Management & MIS
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 5427; graduate students will be assigned additional work.

ISM 4321 Cybersecurity Risk Management
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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 Management
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
1-12 sh (may be repeated indefinitely for credit)

ISM 4943 Internship in Management Information Systems
College of Business, Department of Management & MIS
1-3 sh (may not be repeated for credit)
On an '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 5208 Business Data Management
College of Business, Department of Management & MIS
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 5222 Business Data Communication
College of Business, Department of Management & MIS
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. Required to support end-to-end, partner-to-partner electronic business processes. Additionally, the course provides an overview of basic network management and security concepts. Offered concurrently with ISM 4483; graduate students will be assigned additional work. Graduate student status is required.

ISM 5327 Legal, Ethical, and Human Aspects of Cybersecurity
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
This course addresses 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 5328 Cybersecurity Risk Management
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
1-12 sh (may be repeated indefinitely for credit)

ISM 6026 Management of Information Systems and Technology
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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  
College of Business, Department of Management & MIS  
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.

ISM 6326  Information Systems Auditing and Control  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Focuses on the role of management in controlling information technology and understanding the risks of a highly interconnected business environment. Topics include information security; contingency planning; desktop computer controls; systems development controls; computer center operation controls; and assurance of information related to on-line, client-server, web-based, internet, cloud computing, virtualization and other advanced computer topics. This course will cover all the topic areas and prepare the student to take the Certified Information Systems Auditor (CISA) exam.

ISM 6905  Directed Study  
College of Business, Department of Management & MIS  
1-12 sh (may be repeated indefinitely for credit)  

JAP-Japanese Courses  

JPN 1120C  Japanese I  
Col of Arts, Soc Sci and Human, Department of Government  
4 sh (may not be repeated for credit)  
For students with no knowledge of Japanese. Lays a foundation for speaking, writing and reading the language.

JPN 1121C  Japanese II  
Col of Arts, Soc Sci and Human, Department of Government  
4 sh (may not be repeated for credit)  
Prerequisite: JPN 1120C  
Continuation of Japanese I.

JPN 1905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

JPN 2200  Japanese III  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

JPN 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

JPN 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

JOU-Journalism Courses  

JOU 3100  News Reporting  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: COM 2713  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: JOU 3100  
Researching and writing feature articles for newspapers, trade journals and general circulation magazines. Includes manuscript preparation and querying of editors for publication. Credit may not be earned in both JOU 3330 and JOU 3300.

JOU 3314  Environmental Reporting  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: JOU 3100  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: JOU 3100  
Teaches students to report stories simultaneously appearing in print, broadcast and online. Multimedia reporting melds digital technology platforms with traditional reporting skills, ethics and standards.
JOU 3700  Issues in Journalism
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may be repeated for up to 90 sh of credit)
Introduction to major issues challenging news media in today’s digital society, including ethics, public perception of the press, the Internet, political pressures, financial viability and standards of press performance.

JOU 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

JOU 3940  Practicum: Voyager
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: JOU 3100 AND JOU 4201
Experience in preparing news, opinion and feature material for publication in the student newspaper.

JOU 3981  Public Affairs Reporting
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: JOU 3100
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  News Editing
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: JOU 3100
The editing of local and wire copy for media outlets. Strong emphasis on principles of grammar, punctuation, diction, syntax, and logic. Headline writing, cutline writing, news judgment and photo display. Use of standard reference books.

JOU 4213  Newspaper Design
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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 4313  Sports Reporting
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: JOU 3100
Advanced writing and reporting course that offers students a comprehensive exploration of the many facets and platforms of sports journalism. In addition to lessons and practice in the area of gathering and disseminating original articles and opinion pieces, students will be exposed to contemporary issues facing sports and sports journalism as well as historical perspectives on the coverage of sports in the United States.

JOU 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

JOU 6115  Interviewing and Information Gathering
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Provides advanced grounding in how historians, journalists, and qualitative social scientists employ best practices in interviewing and other information seeking to accomplish their objectives.

JOU 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

JST-Jewish/Judaic Studies Courses

LAE 3314  Literacy for the Emergent Learner
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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.

LAE 3324  Teaching Language Arts in the Middle and Secondary Schools
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)
LAE 4905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

LAE 5345  Methods of Advanced Language Arts and Writing  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

LAH 4135  Spanish Conquest of the Americas  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This seminar examines the encounters between ‘old’ and ‘new’ worlds from the 15th to the 17th centuries. Through both primary and secondary readings we study the clash of cultures and ensuing development of new ‘creole’ societies. While this is a story of devastation, suffering, and violence, it is also a tale of endurance, survival, and accommodation. Throughout the semester we will endeavor to view the ‘conquest’ from multiple perspectives, including indigenous and African, looking beyond the European conquerors. We also investigate themes of gender, religion, and law to gain a much richer understanding of the monumental event that is broadly referred to as the ‘conquest’ of the Americas. Meets Multicultural Requirement.

LAH 4474  The Colonial Caribbean  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This course introduces students to the colonial Caribbean, from first contact in 1492 to emancipations in the British Islands in the 1830’s. The emphasis throughout is on the Anglophone colonies, though we will cover the early Spanish dominance, African migrations, and the revolution on French St. Domingue.

LAH 4728  Gender and Sexuality in Latin America from Colonization to Today  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This course examines gender roles and sexuality throughout Latin American History. We begin by investigating pre-Colombian conceptions of sex, gender, and the family. Next we explore how the Spanish conquest altered the role of women in Latin American politics, religion, and society. We also look at how ideas of sex and marriage were altered. After the conquest period notions of gender and sexuality continued to evolve and have a significant impact on independence movements, the creation of nation states, and the abolition of slavery. The course tackles all of these themes, concluding in the 20th century examining current obstacles faced by women and the LGBTQ communities of Latin America. This course explores issues of gender and sexuality across Latin America from Mexico and Cuba to Peru, Brazil, and Colombia. Meets Multicultural Requirement.

LAH 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of History  
1-12 sh (may be repeated indefinitely for credit)

LAH 4922  The Andes: From the Incas to Today  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This course follows the development of the Andean region (Venezuela, Colombia, Bolivia, Peru, Chile, and Argentina), from the Spanish conquest of the Incan Empire to the fall of the military dictatorships of the late 20th century. It examines the formation of the Spanish colonies and their transition to independent nation-states, though many still retained close ties with the U.K. and Germany, in the 19th century. We will then look at how the influence of and economic dependence upon the U.S. and European nations led Andean states first to Socialism and then to authoritarian/military regimes in the 20th century. While each of the countries that make up the Andes has a unique history, we will examine them as a group, paying particular attention to the themes, events, and patterns that they shared. This will give us a better understanding of some of the most prosperous Latin American countries today.

LAH 4728  Gender and Sexuality in Latin America from Colonization to Today  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This course examines gender roles and sexuality throughout Latin American History. We begin by investigating pre-Colombian conceptions of sex, gender, and the family. Next we explore how the Spanish conquest altered the role of women in Latin American politics, religion, and society. We also look at how ideas of sex and marriage were altered. After the conquest period notions of gender and sexuality continued to evolve and have a significant impact on independence movements, the creation of nation states, and the abolition of slavery. The course tackles all of these themes, concluding in the 20th century examining current obstacles faced by women and the LGBTQ communities of Latin America. This course explores issues of gender and sexuality across Latin America from Mexico and Cuba to Peru, Brazil, and Colombia. Meets Multicultural Requirement.

LAH 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of History  
1-12 sh (may be repeated indefinitely for credit)

LAH 4476  Colonial Caribbean  
Col of Arts, Soc Sci and Human, Department of History  
3 sh (may not be repeated for credit)  
This class introduces students to the colonial Caribbean as a historically unique region. Beginning with European contact in 1492, students examine the century of Spanish hegemony before turning to the evolution of the British islands from frontiers to mature plantation societies, and finally concluding with the emancipation of 1833. Students will evaluate scholarship and sources in the classroom and in major research projects.

LAH 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of History  
1-12 sh (may be repeated indefinitely for credit)
LAT-Latin (Language Study) Courses

LAT 1120C  Latin I
Col of Arts, Soc Sci and Human, Department of Government
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
College of Business, Department of Global Hosp & Tourism Mgmt
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
College of Business, Department of Global Hosp & Tourism Mgmt
1-12 sh (may be repeated indefinitely for credit)

LEI 4321  Sport, Adventure and Ecotourism
College of Business, Department of Global Hosp & Tourism Mgmt
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.
Discussion of the concepts, theories and issues relevant to the development of tourism, with an emphasis on sport, adventure and nature based tourism. Examination of the challenges and practices associated with the planning and development of tourism, marketing strategies, funding, government involvement, financing of the infrastructure, event organization, contracts, public relation strategies and career opportunities. Introduction and overview of tourism 'niches' including festivals, special events, urban, rural, cultural, peace and educational tourism. Upper level status is required.

LEI 4332  Community Tourism Development
College of Business, Department of Global Hosp & Tourism Mgmt
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.
Examines the relationship between tourism development and host communities. Students study the positive and negative economic, social, environmental and political implications of tourism development. The role of natural and man-made attractions, theme parks, convention and sports facilities as catalysts to tourism development. Issues of community participation in tourism planning and managing the tourism/community relationships. Junior or Senior classification is required.

LEI 4350  Outdoor Leisure
College of Business, Department of Global Hosp & Tourism Mgmt
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
College of Business, Department of Global Hosp & Tourism Mgmt
3 sh (may not be repeated for credit)
Prerequisite: LEI 3140
Principles of leisure program development and study of program areas, activities, and special events. Analysis of the methods and techniques of program / event design, organization, implementation, and evaluation.

LEI 4905  Directed Study
College of Business, Department of Global Hosp & Tourism Mgmt
1-12 sh (may be repeated indefinitely for credit)

LIN-Linguistics Courses

LIN 3673  Grammar for Professional Success
Col of Arts, Soc Sci and Human, Department of English
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 text ing, for instance, versus language choices for academic, business, and other forms of published writing. Because acceptable professional communication is different from some 'acceptable' forms of digital communication, the course makes overt distinctions between the two. Whether your goal is to improve your writing, review the mechanics of writing, become a professional editor, or to learn enough grammar to teach it, this course will give you the kind of knowledge about the English language that most educated members of our society share. The principal goal of Practical Grammar is to offer students a review of the principles and rules of standard American English so that they can edit their own documents. As William Strunk, Jr. says in The Elements of Style, 'One must first know the rules [of grammar] to break them.'.

LIN 3742  Modern Grammar and Usage
Col of Arts, Soc Sci and Human, Department of English
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  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIN 5905 Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIN 6905 Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIS-Library Info Studies Courses

LIS 4905 Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

LIS 6905 Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

LIT-Literature Courses

LIT 1905 Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIT 2000 Introduction to Literature  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)


LIT 2095 Directed Study  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIT 3084 Modern Prose Fiction  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)

Selected prose fiction of 20th century and related criticism.

LIT 3191 World Literature  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIT 4013 The Novel  
Col of Arts, Soc Sci and Human, Department of English  
3 sh (may not be repeated for credit)

The novel as a genre; exploration of the techniques of narrative, characterization, point of view, voice, reflexivity and others. May include texts from diverse national origins.

LIT 4385 Feminist Theory  
Col of Arts, Soc Sci and Human, Department of English  
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  
Col of Arts, Soc Sci and Human, Department of English  
1-12 sh (may be repeated indefinitely for credit)

LIT 5018 Topics in Fiction  
Col of Arts, Soc Sci and Human, Department of English  
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 5556  Feminist Theory
Col of Arts, Soc Sci and Human, Department of English
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
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

LIT 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

MAA-Mathematics: Analysis Courses

MAA 4211  Advanced Calculus I
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MHF 3202

MAA 4402  Analytic Functions
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAA 5905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAA 6306  Real Analysis
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
A classical real analysis course begins with a typological study of the real number line and includes the Holder and Minkowski inequalities, and other classical inequalities; metric spaces, open and closed sets, convergence, Cauchy sequences, completeness, continuity; normed spaces. The course also includes the Lebesgue integral on the real line, convergence results for sequences of functions. Students are expected to have been exposed to rigorous discussions of limits, continuity, differentiability, Riemann integrals, and basic concepts of point set topology on the real line.

MAA 6426  Complex Analysis
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAT 1033 OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math OR 26 SAT15 Math Sub
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
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1105C OR MAC 1140 OR 520 SAT Math OR 22 ACT Math OR 123 PERT Math OR 26 SAT15 Math Sub
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
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
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 OR 26 SAT15 Math Sub
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 define 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
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAC 2233  Calculus with Business Applications
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 1147 OR MAC 1105 OR MAC 1105C 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
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311
MAC 2313  Analytic Geometry and Calculus III
College of Sci and Engineering, Department of Mathematics & Statistics
4 sh (may not be repeated for credit)
Prerequisite: MAC 2312

MAC 2905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAC 3905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAC 3949  Cooperative Education
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAD 4401  Numerical Analysis
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAS 3105

MAD 4905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAD 5905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAD 6396  Topics in Combinatorial Theory
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Theoretical treatment of numerical methods of linear algebra supplemented with use of computers; polynomial approximations, uniform approximations, least square approximations, error analysis for numerical solutions of linear equations, algebraic eigenvalue problems.

MAE-Mathematics: Education Courses

MAE 3905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAE 4310  Teaching Mathematics in the Elementary School
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
This course is a requirement for the elementary education teacher preparation program. The course is designed to provide students with the methodology requisite to effective mathematics teaching in elementary school classrooms. The coursework centers on utilizing mathematics content knowledge and process skills in the development of effective instructional strategies for the elementary level learners. This course addresses the Next Generation Sunshine State Standards (Common Core State Standards for Mathematics) within lesson planning assignments. Material and supply fee will be assessed.

MAE 4320  Teaching Mathematics in the Middle and Secondary Schools
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 4905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAE 6905  Directed Study
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)
MAN-Management Courses

MAN 3025  Management Fundamentals
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: STA 2023; Completion of 45 hours of college course work is required prior to taking this course.

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
College of Business, Department of Management & MIS
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 QMB 3820.

MAN 3583  Project Management
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
1-12 sh (may be repeated indefinitely for credit)

MAN 4102  Management of Diversity
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301

Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization’s strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 5331; graduate students will be assigned additional work.

MAN 4341  Performance Management
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301

Employees are commonly recognized as an organization’s most valuable resource. Thus, ensuring that employees achieve and maintain their highest performance is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research in change management, organizational development, performance management, and training so that students may learn how to effectively manage human capital for optimal performance. Offered concurrently with MAN 5347; graduate students will be assigned additional work.

MAN 4350  Recruitment and Selection
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)
Prerequisite: MAN 3301

Employees are commonly recognized as an organization’s most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research on effective recruitment and selection of human capital so that students may learn how to establish and effectively manage staffing systems. Offered concurrently with MAN 5351; graduate students will be assigned additional work.

MAN 4341  Business Negotiation
College of Business, Department of Management & MIS
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
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
College of Business, Department of Management & MIS
3 sh (may not be repeated for credit)

Students working in teams will brainstorm potential business options and develop a business plan to serve as a strategic roadmap for the proposed venture as well as the basis for seeking financial support from lenders and / or investors. Business plans will be presented to a jury of practitioners who will evaluate its practical merits and the presentation. Group projects will be utilized and oral and written reports will be required. Senior standing is required for degree seeking students.

MAN 4905  Directed Study
College of Business, Department of Management & MIS
1-12 sh (may not be repeated indefinitely for credit)
MAN 4940  Internship in Management  
College of Business, Department of Management & MIS  
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  
College of Business, Department of Management & MIS  
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  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization’s strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 4330; graduate students will be assigned additional work. Graduate student status is required.  

MAN 5347  Performance Management  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Employees are commonly recognized as an organization’s most valuable resource. Thus, ensuring that employees achieve and maintain their highest performance is one of the most critical managerial responsibilities. This course examines best practices, current trends, legal issues, and research in change management, organizational development, performance management, and training so that students may learn how to effectively manage human capital for optimal performance. Offered concurrently with MAN 4341; graduate students will be assigned additional work. Graduate student status is required.  

MAN 5351  Recruitment and Selection  
College of Business, Department of Management & MIS  
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  
College of Business, Department of Management & MIS  
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 5619  Global Logistics Management  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility operations, raw material and finished goods movement across borders, and equipment and technology for global logistics. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4597; graduate students will be assigned additional work.  

MAN 5806C  Small Business Management Consulting  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Praacticum 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  
College of Business, Department of Management & MIS  
1-12 sh (may not be repeated indefinitely for credit)
MAN 6156  Management and Organizational Behavior  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.) and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. May not be taken for credit by students having credit for INP 6397. Permission is required.

MAN 6317  Strategic Issues in Human Resources Management  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Integrates current research, best practices, human resource policy and strategy in order to maximize organizational effectiveness using human capital. Emphasis is placed on applying strategic human resource management principles in order to leverage the workforce to achieve organizational objectives. Case analyses using real business problems are analyzed by integrating the functional areas of human resource management with business strategies, helping students to understand the linkage between theory and practice.

MAN 6511  Operations Management Problems  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Planning and control of domestic and multinational service and manufacturing operations utilizing information inside and outside the organization. Techniques to plan and improve location, layout, flow through the facility, design of work, and management of the human factor; all with an emphasis on management and maintenance of quality.

MAN 6721  Strategic Management and Policy Formulation  
College of Business, Department of Management & MIS  
3 sh (may not be repeated for credit)  
Utilizes case analysis, a strategic simulation and other related experiential exercises. Integrates and applies the various business management functions from the strategic viewpoint of the organizational chief executive officer. Designed for M.B.A. candidates and should be taken the last semester before graduation. Permission is required.

MAN 6905  Directed Study  
College of Business, Department of Management & MIS  
1-12 sh (may be repeated indefinitely for credit)

MAP-Mathematics: Applied Courses

MAP 2302  Differential Equations  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2313  

MAP 3905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MAP 4341  Partial Differential Equations  
College of Sci and Engineering, Department of Mathematics & Statistics  
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 5345  Partial Differential Equations  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MAP 6106  Mathematical Methods of Operations Research I  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & Statistics  
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.
organizational objectives in changing environments.

provide goods and services priced, promoted and distributed to meet marketing decisions; the decisions marketing managers must make to Function of marketing in our economic system; role of the consumer in prior to taking this course.

Prerequisite: Completion of 45 hours of college course work is required 3 sh (may not be repeated for credit)

College of Business, Department of Mktg, Sply Chain Logis & Econ MAR 3023   Marketing Fundamentals

3 sh (may not be repeated for credit)

Function of marketing in our economic system; role of the consumer in marketing decisions; the decisions marketing managers must make to provide goods and services priced, promoted and distributed to meet organizational objectives in changing environments.

MAR 3202   Supply Chain Logistics Management

College of Business, Department of Mktg, Sply Chain Logis & Econ

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

College of Business, Department of Mktg, Sply Chain Logis & Econ

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

College of Business, Department of Mktg, Sply Chain Logis & Econ

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

College of Business, Department of Mktg, Sply Chain Logis & Econ

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023 AND MAR 3023) 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

College of Business, Department of Mktg, Sply Chain Logis & Econ

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
College of Business, Department of Mktg, Sply Chain Logis & Econ
1-12 sh (may be repeated indefinitely for credit)

MAR 4156  Seminar in International Marketing
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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 4403  Sales Management
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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
College of Business, Department of Mktg, Sply Chain Logis & Econ
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 4803  Marketing Strategy
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403 AND MAR 3503

The integrative capstone experience for all marketing program specializations. Instructional focus is on blending knowledge gained in previous marketing and other business course work with advanced analysis skills in a strategic decision-oriented environment. Course relies primarily on case analysis as an instructional method. Should be taken in the last semester of the student's program of study.
MAR 4841  Services Marketing  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
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  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
1-12 sh (may be repeated indefinitely for credit)

MAR 4941  Marketing Internship  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
1-3 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  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
1-12 sh (may be repeated indefinitely for credit)

MAR 6815  Marketing Management  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
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  
College of Business, Department of Mktg, Sply Chain Logis & Econ  
1-12 sh (may be repeated indefinitely for credit)

MAS-Math: Algebraic Structures Courses

MAS 3105  Linear Algebra  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
Prerequisite: MAC 2312  

MAS 3905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MAS 4203  Number Theory  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
Prerequisite: MHF 3202  

MAS 4301  Abstract Algebra  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
Prerequisite: MHF 3202  

MAS 4905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MAS 5145  Matrix Theory  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
Canonical forms of matrices, similarity, quadratic forms.

MAS 5905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MAS 6219  Analytic Number Theory  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
This course uses analytical methods to analyze and understand basic arithmetic problems. The arithmetic concepts include prime numbers, arithmetic functions, prime producing polynomials, and partitions.

MAS 6329  Topics in Applied Algebra  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
This course is intended to apply the fundamental concepts of abstract algebra to various branches of mathematics, including number theory, combinatorics, and geometry. There will be an emphasis on graph theory, design theory, and coding theory applications.

MAS 6905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)
MAT-Mathematics Courses

MAT 1033 Intermediate Algebra
College of Sci and Engineering, Department of Mathematics & Statistics
4 sh (may not be repeated for credit)
Provides preparation in the elements of algebra that are required for higher mathematics and statistics courses. Covers basic principles and techniques of the following topics: factoring algebraic expressions, manipulation of algebraic fractions, radicals and exponents; complex numbers, linear, quadratic and rational equations, systems of linear inequalities and their graphical representation, introduction to functions. College preparatory algebra or appropriate score on placement test is required prior to taking this course.

MAT 1905 Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAT 3905 Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAT 4500 Undergraduate Proseminar in Mathematics/Statistics
College of Sci and Engineering, Department of Mathematics & Statistics
1 sh (may not be repeated for credit)
Each senior (except students with the secondary track specialization) shall, under the supervision of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education. The student shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students with an opportunity to integrate the experience and knowledge they have gained during their undergraduate studies. Graded on satisfactory/unsatisfactory basis only. Senior standing and permission is required.

MAT 4905 Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAT 4935 Proseminar Topics
College of Sci and Engineering, Department of Mathematics & Statistics
2 sh (may not be repeated for credit)
This course provides students with a comprehensive introduction to technical writing and project time management in a supervised research setting. ‘Research’ is defined as mentored, but self-directed, work that enables individual students or a small group of students to explore an issue of interest and to communicate and disseminate results. Projects may involve inquiry, design, investigation, discovery, or application, depending on the topic. Typically, this course is taken along side the 1-hour proseminar course. By the end of the course, students will complete his or her proseminar final paper using Latex, which includes an abstract, introduction, problem statement (significance of study), literature review, methods section, and references.

MAT 5905 Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAT 6903 Mathematics Research 1
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor with the thrust being applied or theoretical mathematics. Technical reports and oral presentations will be expected of each student. Students must have completed 15 hours of graduate course work in the program and have maintained at least a 3.0 GPA. Students must also commit to both fall and spring sections of the course.

MAT 6904 Mathematics Research 2
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAT 6903
This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to instructor with the thrust being applied or theoretical mathematics. Technical reports and oral presentations will be expected of each student.

MAT 6905 Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MAT 6910 Capstone Projects in Mathematics
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
This course will give students the opportunity to engage in group and independent research projects. Research topics and materials may vary according to the instructor with the thrust being applied or theoretical mathematics/Statistics. Technical reports and oral presentations will be expected of each student.

MAT 6930 Proseminar in Mathematics
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Health, Department of Medical Lab Sciences
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. 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 1000L   Fundamentals of Microbiology Laboratory
College of Health, Department of Medical Lab Sciences
1 sh (may not be repeated for credit)
Prerequisite: MCB 1000*
Co-requisite: MCB 1000

MCB 3020   Microbiology
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

MCB 4276   Epidemiology of Infectious Disease
College of Health, Department of Health Sciences & Admin
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 4631   Molecular Aquatic Microbial Ecology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND CHM 2210/L
Microbial processes, Aquatic microbial ecology, Molecular methods for microbial surveys and processes, Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment. Offered concurrently with MCB 5633. Graduate students will be assigned additional work.

MCB 4905   Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

MCB 5273   Epidemiology of Infectious Disease
College of Health, Department of Public Health
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 5633   Molecular Aquatic Microbial Ecology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Microbial processes, Aquatic microbial ecology, Molecular methods for microbial surveys and processes, Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment. Offered concurrently with MCB 4631. Graduate students will be assigned additional work.

MCB 5905   Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

MCB 6905   Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)
* This course may be taken prior to or during the same term.
MGF-Math: General Finite Courses

MGF 1106  Mathematics for Liberal Arts I
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312*


MHF 3905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

MHF 4905  Directed Study
College of Sci and Engineering, Department of Mathematics & Statistics
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 3194  Clinical Genetics
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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.

MLS 3905  Directed Study
College of Health, Department of Medical Lab Sciences
1-12 sh (may be repeated indefinitely for credit)

MLS 4191  Molecular Diagnostics
College of Health, Department of Medical Lab Sciences
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND MLS 3621

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. The laboratory MLS 4191L is required for MLS majors.

MLS 4191L  Molecular Diagnostics Laboratory
College of Health, Department of Medical Lab Sciences
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
1 sh (may not be repeated for credit)  
Entry level clinical laboratory scientists will learn the physiology, routine testing and interpretation for the following body fluids: urine, cerebrospinal fluid, semen, amniotic, and serous fluids (peritoneal, plural, pericardial, synovial). Correlation of laboratory results interpretations to various disease conditions is stressed. MLS majors are required to take the corresponding laboratory, MLS 4220L, as a co-requisite.

MLS 4220L Urinalysis/Body Fluids I Lab  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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, plural, 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  
College of Health, Department of Medical Lab Sciences  
3 sh (may not be repeated for credit)  
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. MLS students are required to take the corresponding laboratory, MLS 4305L, as a co-requisite.

MLS 4305L Hematology I Lab  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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 4306L Hematology Lab  
College of Health, Department of Medical Lab Sciences  
1 sh (may not be repeated for credit)  
Co-requisite: MLS 4306  
Corresponding lab for Hematology.

MLS 4334 Hemostasis and Thrombosis  
College of Health, Department of Medical Lab Sciences  
1 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. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required. MLS students are required to take the corresponding laboratory, MLS 4334L, as a co-requisite.

MLS 4334L Hemostasis and Thrombosis Lab  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
3 sh (may not be repeated for credit)  
Prerequisite: MCB 3020/L  
Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. MLS students are required to take the corresponding laboratory, MLS 4462L, as a co-requisite.

MLS 4462L  Medical Microbiology Lab  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
3 sh (may not be repeated for credit)  
Prerequisite: BCH 3033 AND PCB 3063  
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 students are required to take the corresponding laboratory, MLS 4505L as a co-requisite.

MLS 4505L  Clinical Immunology Lab  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
3 sh (may not be repeated for credit)  
This course is an introduction to the basic principles and procedures of Blood Bank and Transfusion Medicine. The course covers the fundamentals of blood group immunology, pre-transfusion testing of patient and donor blood for compatibility. The student will also learn red blood cell antibody/antigen interaction and their properties in clinically significant blood group systems. The course covers testing such as ABO/Rh typing, antibody detection and identification, autoimmune hemolytic anemias, and hemolytic disease of the newborn. The student will learn about the collection of blood products and their use in transfusion medicine, including storage, testing for infectious agents, and utilization. The course will also cover regulations and medical, legal, and ethical aspects of transfusion services. MLS students are required to take the corresponding laboratory, MLS 4550L, as a co-requisite.

MLS 4550L  Immunohematology I Lab  
College of Health, Department of Medical Lab Sciences  
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  
College of Health, Department of Medical Lab Sciences  
4 sh (may not be repeated for credit)  
Prerequisite: BCH 3033 AND PCB 3063  

MLS 4625  Clinical Chemistry I  
College of Health, Department of Medical Lab Sciences  
2 sh (may not be repeated for credit)  
Prerequisite: BCH 3033  
Course is an introduction to the basic principles and procedures of clinical chemistry. The lecture and lab are devoted to chemical analysis of blood and other body fluids. Lab safety, specimen collection/handling/storage; lab mathematics, basic lab instrumentation and automation, data management, reference range determination and quality control monitoring will be stressed throughout the course. This class will discuss the pathophysiology and diagnostic testing related to the metabolism of carbohydrates and lipids, assessments of diabetes and diabetic risk, assessments of cardiac risk and monitoring and prognosis following myocardial infarction. Methodologies discussed include spectrophotometry, immunodiagnostics and computer generated analyses. Students will participate in class discussions about recent research in clinical chemistry which will be presented in the forms of abstracts, research papers and figures. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required. MLS Students are required to take the corresponding laboratory, MLS 4625L, as a co-requisite.

MLS 4625L  Clinical Chemistry I Lab  
College of Health, Department of Medical Lab Sciences  
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. 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. Permission is required.

MLS 4626C  Clinical Chemistry I for the MLT to MLS  
College of Health, Department of Medical Lab Sciences  
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
College of Health, Department of Medical Lab Sciences
2 sh (may not be repeated for credit)
Prerequisite: MLS 4625/L
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. MLS students are required to take the corresponding laboratory, MLS 4630L, as a co-requisite.

MLS 4630L  Clinical Chemistry II Lab
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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
College of Health, Department of Medical Lab Sciences
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**  
College of Health, Department of Medical Lab Sciences  
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**  
College of Health, Department of Medical Lab Sciences  
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.

**MMC-Mass Media Communications Courses**

**MMC 2000  Principles of Mass Communication**  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  

**MMC 3743  Communicating Fear: Horror Films and Popular Culture**  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: ENC 1102  
The popularity of horror films, books, and television provides clear evidence that the public likes to be frightened. This course explores the ways in which horror films serve to reflect and illuminate cultural issues, practices, and socio-political influences. Across the semester, students will learn to define horror genres in film, understand the cultural functions horror films serve, and gain a better perspective of the influence of societal fears as they are reflected through film. Meets Multicultural Requirement.

**MMC 3905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)

**MMC 4201  The Constitution and the Press**  
Col of Arts, Soc Sci and Human, Department of Communication  
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**  
Col of Arts, Soc Sci and Human, Department of Communication  
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**  
Col of Arts, Soc Sci and Human, Department of Communication  
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**  
Col of Arts, Soc Sci and Human, Department of 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 4700  Interpreting Popular Culture**  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
The Popular Culture course explores the creation of popular culture and its influence on culture/high-culture and society (with a special emphasis on culture in the United States). The course investigates popular culture broadly and through specific case studies, with an eye toward weighing its benefits and detriments to society. The course includes readings, response papers, and short essays.

**MMC 4905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)

**MMC 6905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)
MSL-Military Sci Leadership Courses

**MSL 1001  Introduction to the Army**
College of Ed and Prof Studies, Department of Military Science
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**
College of Ed and Prof Studies, Department of Military Science
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**
College of Ed and Prof Studies, Department of Military Science
1-12 sh (may be repeated indefinitely for credit)

**MSL 2101  Leadership and Decision Making**
College of Ed and Prof Studies, Department of Military Science
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**
College of Ed and Prof Studies, Department of Military Science
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**
College of Ed and Prof Studies, Department of Military Science
1-12 sh (may be repeated indefinitely for credit)

**MSL 3201C  Training Management & the Warfighting Functions**
College of Ed and Prof Studies, Department of Military Science
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  
College of Ed and Prof Studies, Department of Military Science  
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 Competence 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  
College of Ed and Prof Studies, Department of Military Science  
1-12 sh (may be repeated indefinitely for credit)

MSL 4301C  The Army Officer  
College of Ed and Prof Studies, Department of Military Science  
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  
College of Ed and Prof Studies, Department of Military Science  
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  
College of Ed and Prof Studies, Department of Military Science  
1-12 sh (may be repeated indefinitely for credit)

MTG-Math: Topology Geometry Courses

MTG 3905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MTG 4905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)

MUC-Music:Composition Courses

MUC 4200  Introduction to Music Composition  
Col of Arts, Soc Sci and Human, Department of Music  
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.

MUC-Music Courses

MUE 2040  Introduction to Music Teaching  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may not be repeated for credit)  
A foundation course for potential music educators. An overview of the music education profession and its relationship to mainstream education issues; includes 10 hours of initial observations/participation in local school classrooms. Permission is required.

MUE 3311  Methods for the Elementary School Music Teacher  
Col of Arts, Soc Sci and Human, Department of Music  
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 3413  Chamber Music Coaching  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)

MUE 4330  Music in the Middle and Secondary Schools  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may not be repeated for credit)  
Prerequisite: MUE 2040 AND MUE 3311  
The organization and administration of general, choral, and instrumental music in middle and high schools. Permission is required.
MUE 4343  String Methods and Materials  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 4480  Marching Band Methods  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 1112  
Marching Band Methods is a course designed to develop skills, obtain knowledge, and study the application of methods, techniques, and systems related to the total spectrum of administering marching bands. The course will emphasize the pedagogy of developing marching band fundamentals, stimulate creative thinking, and present a specific system of conceiving, writing, and teaching a marching band show. The course will also introduce the use of current software in computer drill design.

MUE 4493  Special Methods/Instrumental Techniques  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

MUG-Music: Conducting Courses

MUG 2101  Conducting  
Col of Arts, Soc Sci and Human, Department of Music  
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 3104  Conducting I  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may not be repeated for credit)  
Prerequisite: MUT 2117  
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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)
MUH-Music: History/Musicology Courses

MUH 2030  Women in Popular Music
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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 3622  The Irish Experience - A Survey of the History of Irish Music and Culture
Col of Arts, Soc Sci and Human, Department of Music
3 sh (may not be repeated for credit)
In this study abroad experience, students will learn about major Irish historical and cultural events in addition to studying and performing Irish music. Students will also participate in tours to a variety of cities and museums throughout Ireland.

MUH 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Music
1-12 sh (may be repeated indefinitely for credit)

MUL-Music: Literature Courses

MUL 2010  Music Appreciation
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211* AND MUT 3611*
Overview of Orchestral and small string ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3511  Band and Wind Literature
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211* AND MUT 3611*
Overview of solo vocal literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of solo song, its significant composers, forms and styles from the Renaissance to the present in the four major singing languages; French, German, Italian, and English. Permission is required.
MUL 3643  Choral Literature  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may not be repeated for credit)  
Prerequisite: MUH 3211* AND MUT 3611*  
Overview of choral literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of the major compositions, composers, forms and styles from the Renaissance to the present. Permission is required.

MUL 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)

MUL 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)

MUL 5905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  
* This course may be taken prior to or during the same term.

MUN-Music: Ensembles Courses

MUN 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)

MUN 3100  UWF Argo Athletic Band  
Col of Arts, Soc Sci and Human, Department of Music  
0-1 sh (may be repeated for up to 8 sh of credit)  
Open to all students with woodwind, brass, percussion, or color guard experience. The Argo Athletic Bands serves as both a performance-based academic course and a service organization. The course is open by audition to music majors and non-music majors with prior instrumental performance experience in high school or junior college. Students can take the course for 1 credit in order to meet upper division music elective requirements. They can also take the course for 0 credit hours if they have met their music elective requirement or if they are non-music majors and do not have a music elective requirement but would like to continue performing with this elite music ensemble.

MUN 3133  The University of West Florida Symphonic Band  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 3323  Concert Choir  
Col of Arts, Soc Sci and Human, Department of Music  
0-1 sh (may be repeated for up to 8 sh of credit)  
SA (soprano, alto) chorus preparing for performances throughout the year. This class is 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 3363  Advanced Chamber Choir  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
0-1 sh (may be repeated for up to 10 sh of credit)  
Performance oriented small group of various sizes. Literature and instrumentation are based upon student and departmental needs. Material and Supply Fee will be assessed.

MUN 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)
MUN 4411  String Quartet
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
1-12 sh (may be repeated indefinitely for credit)

MUO-Music: Opera/Mus Theatre Courses
MUO 3503  Advanced Opera Studio
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
1-12 sh (may be repeated indefinitely for credit)

MUS 3253  Diction for Singers II: French/German
Col of Arts, Soc Sci and Human, Department of Music
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 3820  The Irish Experience - International Music Study and Performance
Col of Arts, Soc Sci and Human, Department of Music
3 sh (may be repeated for up to 6 sh of credit)
An interdisciplinary, performance-oriented course designed to integrate musical and theatrical performance skills for the singing actor in an international setting.

MUS 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Music
1-12 sh (may be repeated indefinitely for credit)

MUT-Music: Theory Courses
MUT 1111  Freshman Theory
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

MUT 2116  Sophomore Theory  
Col of Arts, Soc Sci and Human, Department of Music  
3 sh (may not be repeated for credit)  
Prerequisite: MUT 1112 AND MUT 1272  
Co-requisite: MUT 2276  
Extensive harmonic analysis involving primary and secondary chords and including chromaticism and modulation; altered chords and their functions.  

MUT 2117  Sophomore Theory II  
Col of Arts, Soc Sci and Human, Department of Music  
3 sh (may not be repeated for credit)  
Prerequisite: MUT 2116 AND MUT 2276  
Co-requisite: MUT 2277  
Continuation MUT 2116, including augmented sixth chords, the neapolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.  

MUT 2276  Sophomore Theory I Lab  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

MUT 3401  Techniques of Counterpoint  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

MUT 4311  Instrumentation  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

MUT 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

MVB-Applied Music: Brasses Courses  

MVB 1311  Applied Music Trumpet  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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 3323  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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 3324  Applied Music Euphonium
Col of Arts, Soc Sci and Human, Department of Music
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 3325  Applied Music Tuba
Col of Arts, Soc Sci and Human, Department of Music
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 3331  Applied Music Trumpet
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in trumpet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3332  Applied Music Horn
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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.
MVK 4343  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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 4345  Applied Music Tuba
Col of Arts, Soc Sci and Human, Department of Music
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 1412  Applied Music Harpsichord
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the freshmen level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2223  Applied Music Organ
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
1 sh (may not be repeated for credit)
Prerequisite: MVK 1112
To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.

MVK 2122  Class Piano IV
Col of Arts, Soc Sci and Human, Department of Music
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 1311  Applied Music Piano
Col of Arts, Soc Sci and Human, Department of Music
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 1312  Applied Music Organ
Col of Arts, Soc Sci and Human, Department of Music
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 1313  Applied Music Harpsichord
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the freshmen level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1413  Applied Music Euphonium
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1414  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1314  Applied Music Piano
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1315  Applied Music Organ
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1316  Applied Music Harpsichord
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the freshman level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1415  Applied Music Euphonium
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1416  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1417  Applied Music Piano
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1418  Applied Music Organ
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1419  Applied Music Harpsichord
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the freshman level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1420  Applied Music Euphonium
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1421  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1422  Applied Music Piano
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1423  Applied Music Organ
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1424  Applied Music Harpsichord
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the freshman level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1425  Applied Music Euphonium
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 1426  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 2121  Class Piano III
Col of Arts, Soc Sci and Human, Department of Music
1 sh (may not be repeated for credit)
Prerequisite: MVK 1112
To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.

MVK 2122  Class Piano IV
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 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
Col of Arts, Soc Sci and Human, Department of Music
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 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 Organ
Col of Arts, Soc Sci and Human, Department of Music
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 sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2423  Applied Music Harpsichord
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied harpsichord. Primarily for music majors of the freshman level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2424  Applied Music Euphonium
Col of Arts, Soc Sci and Human, Department of Music
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.

MVK 2425  Applied Music Trombone
Col of Arts, Soc Sci and Human, Department of Music
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.
MVK 2422  Applied Music Harpsichord  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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)**  
Col of Arts, Soc Sci and Human, Department of Music  
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 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)**  
Col of Arts, Soc Sci and Human, Department of Music  
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 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 3722  Seminar in Piano Vocal/Piano Instrumental Collaboration**  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may be repeated for up to 6 sh of credit)  
The course will explore the Piano Vocal and Piano Instrumental repertoire. Through the study and performance of representative works, students will discover and address not only the inherent challenges of collaboration, but also the unique challenges presented by each instrument or voice. Students will learn to observe and critique their colleagues in a master class format.

**MVK 3905  Directed Study**  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  

**MVK 3970  Junior Recital - Keyboards**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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**  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  

Individual instruction in applied harpsichord. 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 4641 Piano Pedagogy  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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.

MVP-Applied Music: Percussion Courses

MVP 1311 Applied Music Percussion  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 4241 Performance: Percussion  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may be repeated for up to 6 sh of credit)  

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3331 Applied Music Percussion  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  

Individual instruction in applied music in percussion. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.
MVP 3970  Junior Recital - Percussion  
Col of Arts, Soc Sci and Human, Department of Music  
1 sh (may not be repeated for credit)  
Prior to graduation all students seeking a performance specialization in music must present at least one-half of a public recital. Permission to give recital is secured from the student's Applied Music faculty 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  
Col of Arts, Soc Sci and Human, Department of Music  
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 4971  Senior Recital - Percussion  
Col of Arts, Soc Sci and Human, Department of Music  
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 student's Applied Music faculty 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.

MVS-Applied Music: Strings Courses

MVS 1311  Applied Music Violin  
Col of Arts, Soc Sci and Human, Department of Music  
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.

MVS 1312  Applied Music Viola  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 1316  Applied Music Guitar  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 3333  Applied Music Viola  
Col of Arts, Soc Sci and Human, Department of Music  
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 3334  Applied Music Cello  
Col of Arts, Soc Sci and Human, Department of Music  
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 3336  Applied Music Guitar  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  
Individual instruction in applied music in cello. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4344  Applied Music Bass  
Col of Arts, Soc Sci and Human, Department of Music  
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 senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4346  Applied Music Guitar  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  
Individual instruction in applied music in guitar. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4971  Senior Recital - Strings  
Col of Arts, Soc Sci and Human, Department of Music  
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.

MVV 2321  Performance: Voice  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may be repeated for up to 6 sh of credit)  
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2421  Applied Music Voice  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)  
Individual instruction on the viola on the graduate level. Lesson times to be determined in consultation with the instructor.

MVV-Applied Music: Voice Courses  

MVV 1311  Applied Music Voice  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2321  Performance: Voice  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may be repeated for up to 6 sh of credit)  
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2421  Applied Music Voice  
Col of Arts, Soc Sci and Human, Department of Music  
2-3 sh (may be repeated for up to 9 sh of credit)  
Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)
MVV 3331  Performance: Voice
Col of Arts, Soc Sci and Human, Department of Music
3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in voice. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3431  Applied Music Voice
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music voice. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3970  Junior Recital - Voice
Col of Arts, Soc Sci and Human, Department of Music
1 sh (may not be repeated for credit)
Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVV 4341  Performance: Voice
Col of Arts, Soc Sci and Human, Department of Music
3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music in voice. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4441  Applied Music Voice
Col of Arts, Soc Sci and Human, Department of Music
2-3 sh (may be repeated for up to 9 sh of credit)
Individual instruction in applied music vocal. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1311  Applied Music Flute
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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
Col of Arts, Soc Sci and Human, Department of Music
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 2421  Performance: Woodwinds  
Col of Arts, Soc Sci and Human, Department of Music  
2 sh (may be repeated for up to 6 sh of credit)  
Individual instruction in applied music in woodwinds. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3331  Applied Music Flute  
Col of Arts, Soc Sci and Human, Department of Music  
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 junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3332  Applied Music Oboe  
Col of Arts, Soc Sci and Human, Department of Music  
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 junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3333  Applied Music Clarinet  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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  
Col of Arts, Soc Sci and Human, Department of Music  
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 4345  Applied Music Saxophone  
Col of Arts, Soc Sci and Human, Department of Music  
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 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  
Col of Arts, Soc Sci and Human, Department of Music  
1-12 sh (may be repeated indefinitely for credit)
MVS 4971  Senior Recital - Woodwinds  
Col of Arts, Soc Sci and Human, Department of Music  
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. 

NGR-Nursing: Graduate Courses 

NGR 5905  Directed Study  
College of Health, Department of Nursing  
1-12 sh (may be repeated indefinitely for credit)  

NGR 6002  Advanced Health Assessment  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing 
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  
College of Health, Department of Nursing  
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 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  
College of Health, Department of Nursing  
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  
to healthcare plans and decisions. 

NGR 6202L  Care of the Adult II Practicum  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This course explores the theoretical foundations of nursing and nursing practice. It examines the nursing influence on legislation and policy development. Students will critically analyze nursing theories and healthcare policies from a historical, multidisciplinary, and global perspective. Permission is required.

NGR 6710  Nursing Education Seminar I  
College of Health, Department of Nursing  
2 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 initial seminar course builds on core course content in the development of the nurse as an educator in both the classroom and clinical settings in the student's area of expertise. It explores complex theories and concepts in nursing education and begins the preparation of the student for the nurse educator role. The student will begin to explore curriculum development with examining learning theories, teaching strategies, resources, and technology appropriate for the different learning styles.

NGR 6710L  Nursing Education Practicum I  
College of Health, Department of Nursing  
2 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 initial practicum course introduces the learner to the nurse educator role in classroom and clinical environments. The course will focus on the application of learning theories, teaching strategies, resources, and technology appropriate for the different learning styles and environments.
NGR 6715  Nursing Education Seminar II  
College of Health, Department of Nursing  
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, vision, 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  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6710/L  
Co-requisite: NGR 6715  
This practicum course continues to immerse the learner in the nurse educator role in clinical and classroom settings. Learners will focus on instructional planning, teaching strategies, and curricula development. Learners will have the opportunity to facilitate a learning session in the clinical or classroom environment.

NGR 6718  Nursing Education Seminar III  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6715/L  
Co-requisite: NGR 6718L  
This final seminar course focuses on programmatic evaluation, accreditation of nursing education, and scholarship of the nurse educator. Synthesis of curriculum, evaluation, accreditation, and the nurse educator role are primary course components.

NGR 6718L  Nursing Education Practicum III  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6715/L  
Co-requisite: NGR 6718  
The final nurse educator practicum course prepares the learner to synthesize the role of the nurse educator. Learners will focus on programmatic evaluation, accreditation of nursing education, and scholarship of the nurse educator.

NGR 6727  Nurse Executive Seminar III  
College of Health, Department of Nursing  
3 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  
College of Health, Department of Nursing  
3 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  
College of Health, Department of Nursing  
2 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  
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  
College of Health, Department of Nursing  
2 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 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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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 6740  Contemporary Issues in the Role of Advanced Nursing Practice  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6729 AND NGR 6740 AND NGR 6880  
This course follows all MSN core content and Nursing Leadership and Management Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6833L course. Permission is required.

NGR 6833L  Nursing Leadership & Management EBP Project II  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6729 AND NGR 6740 AND NGR 6880  
This course follows all MSN core content, 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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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 course promotes basic skills in research utilization and scholarly writing by an in-depth exploration of a nursing topic or problem. An evidence-based project is completed under the guidance of a graduate faculty member.

NGR 6872  Information Technology and Data Analysis for Healthcare Professionals  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This course will explore the philosophical and theoretical foundations of health care ethics. Additionally, this course will present multiple perspectives used in medical/nursing ethics decision-making. The history of and current issues in medical ethics will be explored along with relevant case studies.

NGR 6893  Health Systems Leadership and Policy Strategies  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This course assists the learner to synthesize organizational theory and leadership to influence health policy within the context of current complex healthcare systems. The learner will analyze policy from a socio-economic, ideological, political, historical, and technological perspective while integrating clinical management processes and utilization of community resources. Content will focus on the organizational structure of health care systems, health care financing and economic implications and the role of the provider in policy making.

NGR 6905  Directed Study  
College of Health, Department of Nursing  
1-12 sh (may be repeated indefinitely for credit)  

NGR 8779  Transformational Leadership for Nurse Executives  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This course expands on the leadership skills necessary for the nurse executive to assume an advanced role of the DNP in health care administration. Effective communication and visionary skills necessary for project improvement and system’s change initiatives as well as the ability to integrate nursing science into practice will be explored. Preparation to analyze the effect of epidemiological, biostatistical, cultural and environmental influences related to the care of individuals and populations is an essential component.

NGR 8891  Interprofessional Collaboration for Improving Patient, Population and System Outcomes  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This course offers opportunities to explore how the roles of different agencies and individuals interrelate in the delivery of health care. Analyzing the significance of the role of the nurse executive in relation to the health care team is paramount. Health care policy development, management and evaluation at the local, state and global level while identifying the significant individuals and agencies involved is a focus.

NGR 8892  Clinical Prevention, Epidemiology and Population Health  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This course analyzes the impact of societal, cultural, and ethical factors on healthcare. Emphasis is placed on examining the influence of barriers inherent to the vulnerable and under-served. Evidence based theories and other strategies for evaluating and managing ethical dilemmas as they affect the management of health care are examined.

NGR 8911  System’s Change/Innovation Project  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 8979  
This course employs consultative and advanced leadership strategies with inter and intra professional groups to create and disseminate an innovation project within a selected health system. This project represents the summation of the knowledge, skills and abilities developed throughout the program and project implementation.

NGR 8979  Executive Health Care Immersion Experience Three  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NGR 8976 AND NGR 8977  
This course is the third of three healthcare immersion experiences for the DNP student and is designed to provide opportunities in application of advanced leadership and clinical knowledge in healthcare systems. The focus is increasing competence in the role, refining business acumen, leadership skills, and business practices within a specific healthcare institution/agency. Scientific and organizational theory, systematic evidence appraisal, policy, and outcomes analysis are integrated into this course.

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

NSP-Nursing Special Courses

NSP 3845  Academic Writing in Nursing I  
College of Health, Department of Nursing  
1 sh (may not be repeated for credit)  
Co-requisite: NUR 3081  
Provides an introduction to the academic reading and writing characteristics of higher education for the RN-BSN student. Within the context of the nursing profession the student will demonstrate the ability to read critically, write effective arguments, and practice the writing process using APA style format. Co-requisite NUR 3081.
NUR 3095   Introduction to Pharmacological Nursing
College of Health, Department of Nursing
3 sh (may not be repeated for credit)
Co-requisite: NUR 3026, NUR 3026L, 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
College of Health, Department of Nursing
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
College of Health, Department of Nursing
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
College of Health, Department of Nursing
3 sh (may not be repeated for credit)
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. Additional focus is on academic writing; including citing professional sources, using APA format, and searching and using scholarly references.

NUR 3085*   Introduction to Pharmacological Nursing
College of Health, Department of Nursing
2 sh (may not be repeated for credit)
Co-requisite: NUR 3026, NUR 3026L, NUR 3138, 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 3505L  Mental Health Nursing Care Lab  
College of Health, Department of Nursing  
2 sh (may not be repeated for credit)  
Prerequisite: NUR 3026/L AND NUR 3095 AND NUR 3138 AND NUR 3805  
Co-requisite: NUR 3215,L,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 life span. The use of evidence-based practice guidelines will be incorporated into the provision of nursing care of those individuals who chronic mental health disorders.

NUR 3805  Achieving Professionalism I  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Co-requisite: NUR 3026,NUR 3028L,NUR 3095  
This course introduces the student to key concepts and expectations of professional nursing. A comprehensive examination of nursing history, theories and models, the nursing process, nursing organizations, law and liability, ethics, education, health care systems, and professional organizations are discussed. Additionally, the student will explore the primary roles of a professional nurse and what key elements are required.

NUR 3835  Achieving Professionalism II  
College of Health, Department of Nursing  
2 sh (may not be repeated for credit)  
Prerequisite: NUR 3026/L AND NUR 3138 AND NUR 3805  
This course introduces new content and builds on the concepts examined in Achieving Professionalism I. The student will now begin to explore concepts such as power, the politically active nurse, the health care debate, understanding behavior, the aging impact, and other developments in current nursing practice.

NUR 3871  Health Care Informatics  
College of Health, Department of Nursing  
2 sh (may not be repeated for credit)  
Prerequisite: NUR 3026/L AND NUR 3095 AND NUR 3138  
This course introduces students to informatics as it applies to health care in general with a special focus on nursing practice. The emphasis of this course is on the integration of nursing, computer, and information science for the support of professional nursing practice. Core informatics concepts, competencies, skills, and tools that promote safety, improve quality, and foster patient centered care and efficiency are introduced.

NUR 3905  Directed Study  
College of Health, Department of Nursing  
1-12 sh (may be repeated indefinitely for credit)  

NUR 4125  Pathophysiology and Healthcare Management  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
For the RN-BSN student, this course is designed to integrate disease processes, healthcare and nursing interventions. This course examines the pathophysiological processes that occur in the human body.

NUR 4165  Essentials of Evidence-Based Nursing Practice  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: STA 2023  
Co-requisite: NSP 4846  
This course introduces the baccalaureate nursing student to evidence-based practice guidelines. Students will explore quality care initiatives through the integration of theory, evidence, clinical judgment and patient preferences. Meets Gordon Rule Writing Requirement.

NUR 4169  Integration of Evidence in Professional Nursing Practice  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 3026/L AND NUR 3215/L AND NUR 3505/L AND NUR 3805 AND NUR 3871  
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. Additional focus on academic writing, APA formatting, searching, and using scholarly references will support the application of evidence based practice in the clinical setting. Meets Gordon Rule Requirement. Meets Gordon Rule Writing Requirement.

NUR 4216  Patient Centered Care III  
College of Health, Department of Nursing  
4 sh (may not be repeated for credit)  
Prerequisite: 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 4216L  Patient Centered Care III Lab  
College of Health, Department of Nursing  
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 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 is emphasized. Use of evidence in the provision of complex care is also a course focus.
NUR 4257  Patient Centered Care IV  
College of Health, Department of Nursing  
4 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445  
Co-requisite: NUR 4257L  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of 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  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
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  
College of Health, Department of 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  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
This RN-BSN public health nursing course explores the role of the Baccalaureate- prepared nurse in health promotion and disease prevention among diverse communities. Dimensions of cultural expressions are explored among at-risk populations. The study of epidemiology, as well as social determinants of health are studied and applied to population health by using a public health intervention framework. Meets Multicultural Requirement.

NUR 4636L  Community and Public Health Nursing Lab  
College of Health, Department of Nursing  
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  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445/L  
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 4827  Leadership and Management in Nursing  
College of Health, Department of Nursing  
3 sh (may not be repeated for credit)  
Prerequisite: NUR 4169 AND NUR 4216/L AND NUR 4445/L  
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.
Offered concurrently with OCB 4201 (old ZOO3556).

The focus will be given to environmental and anthropogenic disturbances. Groups (inhabitants & builders) on coral reefs. Special attention and productivity, and biological diversity of the coral reef ecosystem. This overall, the aim of this course is to highlight the organization, structure, 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-Biological Oceanography Courses**

**OCB 3108  Study Abroad In Florida - Marine Field Studies**  
College of Sci and Engineering, Department of Biology  
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**  
College of Sci and Engineering, Department of Biology  
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).

**OCE 5905  Directed Study**  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)

**OCE-General Oceanography Courses**

**OCE 3007  Concepts of Oceanography and Marine Biology**  
College of Sci and Engineering, Department of 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**  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)

**OCE 4905  Directed Study**  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)

**OCE 5905  Directed Study**  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)

**OCE 6905  Directed Study**  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)

**ORI-Oral Interpretation Courses**

**PAD-Public Administration Courses**

**PAD 3003  Public Administration in American Society**  
College of Ed and Prof Studies, Department of Administration and Law  
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**  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)
PAD 4905 Directed Study
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

PAD 5107 Modern Public Organization Theory
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and 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
College of Ed and Prof Studies, Department of Administration and 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 5862 Government Cost and Pricing Analysis
College of Ed and Prof Studies, Department of Administration and Law
3 sh (may not be repeated for credit)
Government Cost and Pricing policies and procedures needed to prepare or evaluate and analyze cost proposals and costs incurred in Federal Government Contracts. Components of government cost and price analysis in federal contracting as defined by the Defense Contracting Auditing Agency (DCAA). Contracts from the contractor's and the federal Contracting Officer's perspective. Indirect costs and cost allocation bases. Methods utilized by the federal government to establish estimates of fair and competitive prices for goods and services.

PAD 5905 Directed Study
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

PAD 6041 Public Service Ethics
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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 Service  
College of Ed and Prof Studies, Department of Administration and Law  
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 service organizations.

PAD 6417  Public Service Human Resource Management  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)

PAD 6946  Administration Capstone  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)
PAD 8980  Dissertation
College of Ed and Prof Studies, Department of Administration and Law
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

PAS 2054  Introduction to the Physician Assistant Profession
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Designed for individuals considering a career as a physician assistant (PA), this course takes the student through the history of the PA profession, its development, and the role of the PA as a member of the healthcare team. Successful completion of this course by students will exempt them from the 500 hour requirement for previous patient care experience required for application to the FSU PA Program.

PCB-Process Bio:Cell/Mole/Eco Courses

PCB 2905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

PCB 3043  Ecology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011
Co-requisite: PCB 3043L

Interactions of microorganisms, plants, and animals with abiotic and biotic factors in the environment are examined as determinants of the distribution and abundance of species, population dynamics and ecosystem function. General concepts and methodologies of ecological science are discussed at individual, population, community and ecosystem levels of organization. Material and Supply Fee will be assessed for corresponding lab.

PCB 3043L  Ecology lab
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: BSC 2011L
Co-requisite: PCB 3043

This lab accompanies the Ecology lecture, PCB 3043. The lab provides students with hands-on and field experiences linked to topics presented in the lecture course and introduces students to different ecosystems on campus and in our region.

PCB 3063  Genetics
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2011/L
Co-requisite: PCB 3063L

Origin, development and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3063C  Genetics
College of Sci and Engineering, Department of Biology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2011/L

Origin, development and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3063L  Genetics Lab
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Co-requisite: PCB 3063

Corresponding lab for Genetics.

PCB 3097L  Introduction to Human Anatomy Laboratory
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND BSC 2011/L

Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields. Material and Supply Fee will be assessed.

PCB 3103  Cell Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2010/L AND CHM 2046/L

Cell biology is the study of the structure and function of eukaryotic cells. The course will cover the basics of cellular function and biochemical foundations, cellular genetics and molecular biology, cell structure and function, cell signaling, and cytoskeletal organization and regulation. Relevant current topics in the news and disease case studies will also be used to more broadly apply the topics learned throughout the course to real-world situations.

PCB 3103L  Cell Biology Laboratory
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND CHM 2046/L AND PCB 3103*

Cell biology laboratory is designed to provide the fundamental training in the current techniques and methodologies used in research laboratories. The laboratory is to complement the cell biology lecture, however can be taken independently. The experiments are associated with the following topics: microscopy (bright-field and fluorescence), the scientific method, biochemistry, cellular organization, structure and function relationships, cellular energetics, biotechnology, forensic investigations, and the immunology of the wound response.
PCB 3905 Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

PCB 4048C Coastal Marine Ecology
College of Sci and Engineering, Department of Biology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND CHM 2046/L

The study of nearshore coastal environments, particularly bays and estuaries emphasizing interactions among biotic communities, physical, geological and chemical processes. The influence of human activities on and management of these ecosystems is discussed. Offered concurrently with PCB 5445C; graduate students will be assigned additional work. Material and supply fees will be assessed for corresponding lab.

PCB 4098 Concepts in Human Physiology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND CHM 2210/L

Concepts in Human Physiology is a 3 credit lecture and 1 credit lab course for students interested in areas related to human physiology. It covers physiological mechanisms of the human body. Emphasis is placed on mechanisms designed to maintain homeostatic conditions, membrane dynamics and cell signaling including endocrine and nervous signals, as well as other vital physiologic mechanisms necessary to homeostasis.

PCB 4098L Concepts in Human Physiology Laboratory
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: PCB 4098*

Concepts in Human Physiology is a 3 credit lecture and 1 credit lab course for students interested in areas related to human physiology. The laboratory portion will consist of laboratory exercises design to reinforce concepts learned in lecture. Laboratory exercises include modeling cellular activities and metabolic reactions, as well as measurements and experiments related to organ system function.

PCB 4125 Advanced Molecular Biology and Bioinformatics for Biologists
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: PCB 3063/L

This course uses stepwise building of computer analysis tools and techniques essential for upper-level undergraduate and M.S. graduate students in Biological Sciences, Biomedical Sciences, Biochemistry, including students with interests in pre-professional fields, as well as research in ecology, evolution, biotechnology, and medicine. In addition to the pre-requisites, we prefer that students have taken either Molecular Biology (PCB4524 and 4524L) or Biochemistry with lab (BCH 3033 and Lab) to be the most successful in the course. Offered concurrently with PCB 5525. Graduate students will be assigned additional work.

PCB 4233 Immunology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: MCB 3020 OR (CHM 2210 AND PCB 3103)

Basic principles of immunology to include humeral and cell-mediated immune mechanisms, the complement system and the inflammatory response. Offered concurrently with PCB 5235; graduate students will be assigned additional work.

PCB 4233L Immunology Laboratory
College of Sci and Engineering, Department of Biology
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 4253 Developmental Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: PCB 3063 AND PCB 3103

This course covers the current understanding of the mechanisms that regulate animal development. Students will learn patterns and mechanisms of animal development, with an emphasis on model organisms such as Drosophila, Xenopus, chick, mouse, zebrafish. A central theme will be development as a phenomenon of differential gene regulation. Developmental mechanisms, especially at a molecular level, will be examined for differences and commonality among organisms, with a special focus on key signaling pathways. Specific topics include formation of early body plan, cell type determination, organogenesis, morphogenesis, stem cells, and issues in human development. Offered concurrently with PCB 5254. Graduate students will be assigned additional work.

PCB 4253L Developmental Biology Lab
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: PCB 4253*

The purpose of this course is to give students experience with important techniques used to study developmental biology, to provide hands-on learning opportunities that accompany material learned in the lecture course, and to provide research and scientific communication experience applicable to developmental biology and other biomedical research fields. Offered concurrently with PCB 5254L; graduate students will be assigned additional work.

PCB 4364 Marine Ecological Physiology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: PCB 3063 AND PCB 3103

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
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: PCB 4364*

Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and Supply Fee will be assessed. Offered concurrently with PCB 5319L; graduate students will be assigned additional work.

PCB 4374  Tropical Ecology/Op Wall
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: PCB 3063/L

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. Offered concurrently with PCB 5464. Graduate students will be assigned additional work.

PCB 4524  Molecular Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BCH 3033 AND PCB 3063

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 5527; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to the corresponding lab. A grade of 'C-' or higher is required in prerequisite courses.

PCB 4524L  Molecular Biology Lab
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: PCB 4524*

Corresponding lab for Molecular Biology. Offered concurrently with PCB 5527L; graduate students will be assigned additional work.

PCB 4673  Principles of Evolution
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 5675; graduate students will be assigned additional work.

PCB 4703  Human Physiology
College of Health, Department of Health Sciences & Admin
3 sh (may not be repeated for credit)

Physiological mechanisms of various organ systems in the human body. Emphasis on transport mechanisms, renal function, hormones, respiration, cardiac function, muscle physiology, digestion, and immune systems.

PCB 4723  Comparative Animal Physiology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with PCB 5727; graduate students will be assigned additional work.

PCB 4723L  Comparative Animal Physiology Laboratory
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L AND PCB 4723*

General and comparative animal physiology. Complex structures, phenomena, and concepts involved in the regulation of a variety of physiological mechanisms. Material and Supply Fee and Equipment Fee will be assessed. Offered concurrently with PCB 5727L; graduate students will be assigned additional work. The Comparative Animal Physiology Laboratory requires the use of living animals, in most cases invertebrates. Be mindful, that while non-mammalian animals express a relatively low level of nervous integration (i.e. they do not perceive ‘pain’ as you and I interpret it), they should be handled carefully and treated ethically. In this regard, each experiment is designed to provide maximal educational value with minimal insult and stress to the test animal. In most cases, animals will survive the procedures. In cases where animal do not survive, the euthanasia procedures used are the most humane possible. To achieve the laboratory goals and objectives outlined here, it will be imperative that you listen carefully and follow all directions given to you by your laboratory instructors.
PCB 4871  Sensory Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: PCB 3063

This course is for upper level undergraduate students interested in learning how humans and animals sense their environments and how these senses affect behavior and survival. The information learned in this course is broadly applicable to students interested in species ecology, human and animal health, biomedical science, marine biology, general biological research and psychology. Topics covered will include sensory mechanisms important for human health as well as ecology and survival of diverse marine and terrestrial species. This will be primarily a discussion-based course analyzing classical and current research articles pertaining to discussion topics.

PCB 4905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

PCB 4922  Biology Seminar
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)

Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB5924 and PCB3930 (Biology Seminar); graduate students will be assigned additional work.

PCB 5235  Immunology
College of Sci and Engineering, Department of Biology
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 PCB4233; graduate students will be assigned additional work.

PCB 5235L  Immunology Laboratory
College of Sci and Engineering, Department of Biology
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 5254  Developmental Biology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5254L

This course covers the current understanding of the mechanisms that regulate animal development. Students will learn patterns and mechanisms of animal development, with an emphasis on model organisms such as Drosophila, Xenopus, chick and mouse. A central theme will be development as a phenomenon of differential gene regulation. Developmental mechanisms, especially at a molecular level, will be examined for differences and commonality among organisms, with a special focus on key signaling pathways. Specific topics include formation of early body plan, cell type determination, organogenesis, morphogenesis, stem cells, and issues in human development. Graduate students will be assigned outside reading from the primary literature on current research topics in developmental biology and will be expected to summarize and critique these papers orally and in writing. Students will also write a term paper that clearly, thoroughly and effectively summarizes a current topic in the field of developmental biology.

PCB 5254L  Developmental Biology Lab
College of Sci and Engineering, Department of Biology
1 sh (may not be repeated for credit)
Co-requisite: PCB 5254

The purpose of this course is to give graduate students experience with important techniques used to study developmental biology, to provide hands-on learning opportunities that accompany material learned in the lecture course, and to provide research and scientific communication experience applicable to developmental biology and other biomedical research fields. Upon completion of this course, graduate students will be prepared for continuing graduate studies and/or a professional career with a developmental biology research/lab component.

PCB 5319  Marine Ecological Physiology
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5319L

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic,oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 4364; graduate students will be assigned additional work.

PCB 5319L  Marine Ecological Physiology Laboratory
College of Sci and Engineering, Department of Biology
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  
College of Sci and Engineering, Department of Biology  
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 5464  Molecular Ecology  
College of Sci and Engineering, Department of Biology  
3 sh (may not be repeated for credit)  
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. Further, you will learn how these techniques can be applied to conservation and biodiversity issues. Offered concurrently with PCB 4461. Graduate students will be assigned additional work usually in the form of an additional written report(s).

PCB 5525  Advanced Molecular Biology and Bioinformatics for Biologists  
College of Sci and Engineering, Department of Biology  
3 sh (may not be repeated for credit)  
This course uses stepwise building of computer analysis tools and techniques essential for upper-level undergraduate and M.S. graduate students in Biological Sciences, Biomedical Sciences, Biochemistry, including students with interests in pre-professional fields, as well as research in ecology, evolution, biotechnology, and medicine. Graduate students will be assigned additional work that supports more advanced skills with analysis and presentation of findings.

PCB 5527  Molecular Biology  
College of Sci and Engineering, Department of 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  
College of Sci and Engineering, Department of Biology  
1 sh (may not be repeated for credit)  
Co-requisite: PCB 5527  
Corresponding lab for Molecular Biology.

PCB 5675  Principles of Evolution  
College of Sci and Engineering, Department of Biology  
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  
College of Sci and Engineering, Department of Biology  
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 5872  Sensory Biology  
College of Sci and Engineering, Department of Biology  
3 sh (may not be repeated for credit)  
This course is for graduate students interested in learning how humans and animals sense their environments and how these senses affect behavior and survival. The information learned in this course is broadly applicable to students interested in species ecology, human and animal health, biomedical science, marine biology and general biological research. Topics covered will include sensory mechanisms important for human health as well as ecology and survival of diverse marine and terrestrial species. This will be primarily a discussion-based course analyzing classical and current research articles pertaining to discussion topics. Offered concurrently with PCB 4871; graduate students will be assigned additional and more in-depth work.

PCB 5905  Water Quality  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)  

PCB 5924  Biology Seminar  
College of Sci and Engineering, Department of Biology  
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  
College of Sci and Engineering, Department of 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  
College of Sci and Engineering, Department of Biology  
1-12 sh (may be repeated indefinitely for credit)
PCO 6216   Theories of Individual Counseling
College of Health, Department of Psychology
3 sh (may not be repeated for credit)
Prerequisite: PCO 6216
Students must take PCO6216 or by permission of the instructor before enrolling in this course. Overview of major contemporary theoretical approaches to group counseling and psychotherapy.

PCO 6246   Theories of Group Counseling
College of Health, Department of Psychology
3 sh (may not be repeated for credit)
Prerequisite: PCO 6216
Students must take PCO6216 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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)
PCO 6946   Practicum in Counseling
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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 6 sh 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.

PEM-Phys Ed Act:Obj Cent, Land Courses
PEL 1341  Beginning Tennis
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 2114  Cycle Fit
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 2179  Boot Camp Fitness
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Students will participate in Boot Camp classes that will include aerobic
exercise and anaerobic drills to improve endurance, strength, power,
and agility. Classes will be designed to slowly progress through various
exercises and drills of increasing difficulty as the semester advances.
In addition, students will learn basic instruction techniques that will lay
the foundation for learning to become a Boot Camp instructor.
PEM 2444  Shotokan Karate
College of Health, Department of Movement Sciences and Health
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 2445  Shotokan Karate II
College of Health, Department of Movement Sciences and Health
1 sh (may not be repeated for credit)
Prerequisite: PEM 2444
Advanced instruction at the third level for students who have beginning skills in Shotokan Karate. Opportunities will be provided to allow students to continue to build their skill levels and prepare for introductory competitive activities. Graded on satisfactory / unsatisfactory basis only.

PEM 2446  Shotokan Karate III
College of Health, Department of Movement Sciences and Health
1 sh (may not be repeated for credit)
Prerequisite: PEM 2445
Advanced instruction at the third level for students who have beginning skills in Shotokan Karate. Opportunities will be provided to allow students to continue to build their skill levels and prepare for introductory competitive activities. Graded on satisfactory / unsatisfactory basis only.

PEM 3905  Directed Study
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

PEN-Phys Ed Act:Water Snow Ice Courses
PEN 1240  Beach Sports I
College of Health, Department of Movement Sciences and Health
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.

PEO-Phys Ed Act:Obj Cent, Land Courses
PEO 2031  Analysis of Individual Sports
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

PEP-Phys Ed Act:Perfo Cent Lan Courses
PEP 3505  Non-Traditional Sports
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Designed for potential physical education teachers, sport administrators teachers and fitness and conditioning specialists. Emphasis is placed 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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)
PET 2824  Analysis of Team Sports
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 3344C  Athletic Coaching Methods
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
This course provides students with specific methods on how to effectively coach in athletic and fitness settings. Emphasis is placed on understanding athletes, developing a clear coaching philosophy, planning for practices, games and seasons, player development, managing the athletic or fitness setting, and evaluating performance before, during, and between sport seasons.
PET 3351C  Applied Exercise Physiology  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Prerequisite: (PET 3351C OR APK 3110L) 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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
1-12 sh (may be repeated indefinitely for credit)

PET 4092  Skills and Tactics of Sport  
College of Health, Department of Movement Sciences and Health  
3 sh (may not be repeated for credit)  
Skillful performance in games and sports and an understanding of the tactics in these activities. Students will actively participate in a variety of games, create modified games, assess game performance, and apply tactical skills.

PET 4310C  Mechanics of Human Motion  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
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  
College of Health, Department of Movement Sciences and Health  
2 sh (may not be repeated for credit)  
Co-requisite: PET 4927  
Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities for the middle school student. Emphasis is placed on understanding the progression from middle school to the high school developmental curricula.
PET 4744  Student Teaching in Physical Education
College of Health, Department of Movement Sciences and Health
3-10 sh (may not be repeated for credit)
Prerequisite: (1 FTCE Subject Area Test One AND (1 FTCE Subject Area Test Two AND 1 FTCE Special Ed AND 1 FTCE General Ed AND 1 FTCE Professional Ed AND 1 FTCE Subject Area Test One AND 1 FTCE Elementary Ed
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

PET 4926  Practicum I: Elementary School Physical Education
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 4940  Internship
College of Health, Department of Movement Sciences and Health
1-6 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.

PET 4948  Physical Education and Coaching Field Experience with PK - 12
College of Health, Department of Movement Sciences and Health
3 sh (may not be repeated for credit)
Students will complete practical observations, field experiences and will teach and/or coach various age levels and abilities of children in the PK - 12 setting.

PET 5701  Systematic Observation in Sport and Physical Activity
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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 5708  Physical Activity Program Development
College of Health, Department of Movement Sciences and Health
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, justify, and develop physical activity curricula and programs.
PET 5709  Advanced Physical Activity Program Development
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

PET 6015  Professional Issues in Physical Activity Disciplines
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
1-12 sh (may be repeated indefinitely for credit)

PET 6950  Project in Lieu of Thesis
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences and Health
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
College of Health, Department of Movement Sciences 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
College of Health, Department of Movement Sciences 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
College of Health, Department of Movement Sciences 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.
PGY-Photography Courses

PGY 201C  Photography as Art Form: Basic Camera
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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 3152C  Photography for Non-Majors
Col of Arts, Soc Sci and Human, Department of Art and Design
3 sh (may not be repeated for credit)
This class teaches the basic theory and practices of photography for the non-art major. Students will learn about the history of photography, the camera, analog and digital photographic practices, and how to create their own cameras. Through lecture, discussion, and hands-on experience, students will learn how to communicate complex ideas through photography. Non-art students will be exposed to, and learn how to express themselves through photography. This class will deepen students creative thinking, communication, and knowledge of the visual world around them.

PGY 3420C  Photo Art II
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
1-12 sh (may be repeated indefinitely for credit)

PGY 4104C  Creative Darkroom
Col of Arts, Soc Sci and Human, Department of Art and Design
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
Col of Arts, Soc Sci and Human, Department of Art and Design
1-12 sh (may be repeated indefinitely for credit)

PGY 4940C  Photography: Personal Directions
Col of Arts, Soc Sci and Human, Department of Art and Design
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 Concen Courses

PHC 2082  Informatics and Your Health
College of Health, Department of Public 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. Meets General Education requirement in Natural Sciences.
PHC 4101  Essentials of Public Health  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Health Sciences & Admin  
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  
College of Health, Department of Health Sciences & Admin  
1-12 sh (may be repeated indefinitely for credit)  
PHC 5050  Biostatistics for Public Health  
College of Health, Department of 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  
College of Health, Department 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  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
The course provides students with fundamental frameworks for monitoring and evaluation in global health practice. The course provides an overview of different types of program evaluation, including needs assessment, formative research, process evaluation, monitoring of outputs and outcomes, and impact assessment. Students gain practical experience through a series of case-studies involving the use of a conceptual framework in the design of an evaluation plan, that includes development of indicators, analysis of computerized service statistics, and impact measurement. The course addresses 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  
College of Health, Department 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 5198  Applied Qualitative Research Methods  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
The purpose of this course is to provide an introduction and overview of qualitative research methodology. Healthcare and public health professionals not only need to use evidence-based information to guide their practice in clinical, administration, and academic positions, but also need to examine, describe, explain and/or understand phenomena or cultures. Using qualitative methods, the researcher can create solutions to practical problems and contribute to the evidenced-based practice literature. This course will introduce the students to the basic principles of qualitative research and will allow them to understand the steps of the qualitative research process.

PHC 5351  Occupational Safety and Health in the Health Care Environment  
College of Health, Department of Public Health  
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  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 4341; graduate students will be assigned additional work.

PHC 5356  Fundamentals of Industrial Hygiene  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
An on-line multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 4340; graduate students will be assigned additional work.

PHC 5410  Social and Behavioral Sciences in Public Health  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
Covers behavioral and social science contributions to science disciplines, including psychology, sociology, and anthropology, will be reviewed and integrated with public health objectives and outcomes. Using a biopsychosocial framework, the role of social, psychological, and behavioral factors in health and illness are emphasized.

PHC 5442  Global Health  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
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.

PHC 5905  Directed Study  
College of Health, Department of Public Health  
1-12 sh (may be repeated indefinitely for credit)
PHC 6000  Epidemiology for Public Health Professionals
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
This foundational course covers the application of epidemiologic procedures to the understanding of the occurrence and control of conditions such as infections and chronic diseases, mental disorders, community, and environmental health hazards, accidents, and geriatric problems in human populations. The course is critical to developing student competency in the foundational and practical utilities of epidemiology as a tool for disease surveillance and outbreak investigations, disease prevention and treatment. Part of the Master of Public Health degree program.

PHC 6003  Chronic Diseases Epidemiology
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
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.

PHC 6005  Urbanization and Population Health
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
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.

PHC 6015  Epidemiological Research Designs and Methods
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
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.

PHC 6110  Comparative Health Systems
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
This course will cover the major models for provision and financing of healthcare used around the world today. The historical development of these models will be traced, and the societal values and other factors underlying countries' choice of healthcare systems and policies will be examined. Students will learn to analyze the advantages and disadvantages of various ways of organizing and financing healthcare and to evaluate health policies according to a range of criteria for cost, quality, and equity.

PHC 6150  Public Health Policy
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
The course explores general principles of planning, management, and evaluation of health care programs, policies and interventions implemented by public and private organizations. The goal of the course is to ensure a broad understanding of critical issues concerning the organization, delivery, and financing of public health and health care in the United States and examines the role of private, community-based organizations, federal, state, and local governments in ensuring healthy communities. The basic conceptual frameworks underlying healthcare decision making and assessment of the financing, organization, outcomes and delivery of healthcare services are presented.

PHC 6194  GIS Applications in Public Health
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
An online course providing hands-on training in the use of geographic information systems for public health-related data. Students will complete projects covering the collection, analysis, and visualization of spatial data using both public domain and commercial software tools supporting geospatial data. Through a set of focused case studies, students will learn the basic features and limits of each tool, as well as interoperability with other GIS software products (both public domain and commercial packages). Part of the Master of Public Health degree program.

PHC 6196  Applied Data Analysis in Public Health
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
This course provides an overview of computer applications software for public health and health-related data. Fundamentals of data collection, data mining, statistical analysis, interpretation, and reporting of results are covered. Students gain hands on experience in data management and analysis using real-world public health and health-related data. Enrollment in this course assumes a basic understanding of statistical reasoning and epidemiological experience.

PHC 6251  Disease Surveillance and Monitoring
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
Disease surveillance and monitoring is the systematic collection, analysis, interpretation, and dissemination of data for use in prioritizing, planning, implementing, and evaluating health programs, activities and practices in the United States as well as in other developed and developing countries. We 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 will highlight the importance of designing and reporting quantitative and qualitative contents in disease surveillance.
PHC 6300  Environmental Health
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
This foundational public health course provides a broad overview of the relationship between humans and their environment, and of the efforts to prevent or mitigate environmental threats. 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. The course is designed to acquaint students with the scientific and technical foundations of population health and examines both the practice of environmental health and problems addressed public health practitioners.

PHC 6310  Environmental Toxicology
College of Health, Department of Public Health
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
College of Health, Department of Public Health
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
College of Health, Department of Public Health
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 6670  Ethical Issues in Global Health
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
The purpose of this course is to provide an overview of major ethical principles and theories applied to global health, and how culture influences ethical decision-making in health resource allocation. Students will examine some of the primary theories in global health practice and research ethics including virtue, deontology, utilitarian, autonomy, justice, beneficence, and nonmaleficence. The course explores prominent global health issues to build greater knowledge and understanding of global health ethics as a vital tenant of effective decision-making to promote optimal health. Topics will address broad ethical issues related to pandemic preparedness, ethical human subject research in developing countries, human rights, gender based violence, resource allocation, and the effects of globalization on health and quality of life within countries.

PHC 6676  Public Health Response in Humanitarian Emergencies
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
This course provides an overview of the types of humanitarian emergencies and their public health significance. Students explore the public health impact of emergencies and disasters in low-to-middle income countries. Students are introduced to population health needs assessment during emergencies and key indicators needed for timely response and mitigation. Emphasis is placed on the coordination among local, regional, national, governmental, and non-governmental organizations in the delivery of public health services.

PHC 6905  Directed Study
College of Health, Department of Public Health
1-12 sh (may be repeated indefinitely for credit)

PHC 6945  Internship in Public Health I
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
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
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
Prerequisite: PHC 6945
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.

PHC 7011  Advanced Epidemiological Methods
College of Health, Department of Public Health
3 sh (may not be repeated for credit)
This doctoral-level applied methodology course is designed for students in the Doctor of Public Health Program. The advanced epidemiology course provides students with the skills and knowledge of special techniques in epidemiological practice, including measurement error, missing data, and intermediate variables. The course is project based and relies on real local population data for informed public health practice.
PHC 7467  Behavioral Health Intervention Strategies  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
This course is designed for advanced students in population health science to provide them competencies and skills needed to conceptualize, develop, implement and evaluate theory-based programs that influence health-related behaviors. It builds on the content from PHC 5410 in the foundational core courses.

PHC 7704  Community Participatory Research for Health  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
This course provides an overview of Community Participatory Research (CPR) approach as a framework for understanding and addressing population health, including health disparities solutions at the community level. Community participatory research (CPR) is a widely accepted collaborative approach to research that works to understand and protect public health by involving all partners in the research process. Students will apply integrated models and strategies for working with communities and community organizations in promoting health and wellness.

PHC 7710  Qualitative Research Methods and Applications  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
The purpose of this course is to provide an introduction and overview of qualitative research methodology. Public health professionals and health-related social scientists need to use evidence-based information to guide their practice in health promotion and program planning. Using qualitative methods, the researcher can create solutions to practical problems and contribute to the evidence-based practice literature. This course will introduce the students to the basic principles of qualitative research and will allow them to understand the steps of the qualitative research process.

PHC 7944  Doctoral Public Health Practicum  
College of Health, Department of Public Health  
3 sh (may not be repeated for credit)  
The course is a field internship experience in public health agency or work site setting under the supervision of preceptor and university graduate faculty. Requires a significant project proposal approved by public health instructor and a final report. The practicum is designed to provide Dr.PH students with the opportunity to integrate the knowledge and skills developed during their academic program in a structured, supervised, real-world professional setting under the direction of a site supervisor in a public health or social service agency.

PHH- Philosophy: History Courses  

PHH 3400  Modern Philosophy  
Col of Arts, Soc Sci and Human, Department of 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  
Col of Arts, Soc Sci and Human, Department of 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 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may be repeated indefinitely for credit)

PHH 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may be repeated indefinitely for credit)

PHI- Philosophy Courses  

PHI 1905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may be repeated indefinitely for credit)

PHI 2010  Introduction to Philosophy  
Col of Arts, Soc Sci and Human, Department of Philosophy  
3 sh (may not be repeated for credit)  

PHI 2103  Critical Thinking  
Col of Arts, Soc Sci and Human, Department of Philosophy  
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  
Col of Arts, Soc Sci and Human, Department of Philosophy  
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 3100  Greek Philosophy  
Col of Arts, Soc Sci and Human, Department of Philosophy  
3 sh (may not be repeated for credit)  

PHI 3130  Modern Logic  
Col of Arts, Soc Sci and Human, Department of Philosophy  
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
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
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. Meets Gordon Rule Writing Requirement.

PHI 3452  Philosophy of Biology
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
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?those 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 3600  Philosophy of Mind
Col of Arts, Soc Sci and Human, Department of Philosophy
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 3640  Environmental Ethics
Col of Arts, Soc Sci and Human, Department of Philosophy
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 3670  Ethics
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
3 sh (may not be repeated for credit)

PHI 3790  African Philosophy
Col of Arts, Soc Sci and Human, Department of Philosophy
3 sh (may not be repeated for credit)
This course examines historical developments and trends in African philosophy. It offers an opportunity for integrative reflection on issues covered in philosophy and the shape they take in a concrete African historical context. Distinctive areas in philosophy covered include logic, epistemology, metaphysics, ethics, religion, and political thought. Meets Gordon Rule Writing Requirement. Meets Multicultural Requirement.

PHI 3800  Philosophy of Art
Col of Arts, Soc Sci and Human, Department of Philosophy
3 sh (may not be repeated for credit)

PHI 3880  Philosophy of Film
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHI 4300  Theory of Knowledge
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHI 5905  Directed Study
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHI 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHM-Philosophy of Man Soc Courses

PHM 3200  Social and Political Philosophy
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHM 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHP-Philosophers Schools Courses

PHP 3786  Existentialism
Col of Arts, Soc Sci and Human, Department of Philosophy
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
Col of Arts, Soc Sci and Human, Department of Philosophy
1-12 sh (may be repeated indefinitely for credit)

PHT-Physical Therapy Courses

PHY-Physics Courses

PHY 2048  Calculus-Based Physics I
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 AND 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
College of Sci and Engineering, Department of Physics
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 2049  Calculus-Based Physics II
College of Sci and Engineering, Department of Physics
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 2049L  Calculus-Based Physics II Lab
College of Sci and Engineering, Department of Physics
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048/L AND PHY 2049*
Selected experiments in mechanics, oscillatory motion, and heat. Satisfies Florida Common Core Natural Sciences requirement.
PHY 2053  Algebra-Based Physics I
College of Sci and Engineering, Department of Physics
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 I 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
College of Sci and Engineering, Department of Physics
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
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: PHY 2053

Algebra-Based Physics II is the second of a two-semester sequence of physics topics chosen as an introduction to this science. This is an algebra and trigonometry based course. Light; optics; electricity and magnetism; circuits; elementary quantum theory; atomic, nuclear and particle physics. Meets General Education requirement in Natural Sciences.

PHY 2054L  Algebra-Based Physics II Lab
College of Sci and Engineering, Department of Physics
1 sh (may not be repeated for credit)
Prerequisite: PHY 2054*

Selected experiments in optics, electricity, and magnetism.

PHY 2905  Directed Study
College of Sci and Engineering, Department of Physics
1-12 sh (may be repeated indefinitely for credit)

PHY 3106  Calculus-Based Physics III
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049

Laws of thermodynamics, wave phenomena, breakdown of classical physics, theory of relativity, quantization of charge, light, and energy, atomic structure.

PHY 3107  Calculus-Based Physics IV
College of Sci and Engineering, Department of Physics
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.

PHY 3220  Intermediate Mechanics
College of Sci and Engineering, Department of Physics
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
College of Sci and Engineering, Department of Physics
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 3722C  Electronics
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049

This is an introductory course in electronic design and circuitry with emphasis on common instrumentation. This course has both lecture and laboratory components.

PHY 3802L  Intermediate Physics Lab
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: PHY 3106

Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics.

PHY 3905  Directed Study
College of Sci and Engineering, Department of Physics
1-12 sh (may be repeated indefinitely for credit)

PHY 4323  Electricity and Magnetism I
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MAP 2302 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
College of Sci and Engineering, Department of Physics
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
College of Sci and Engineering, Department of Physics
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 Thermal and Statistical Physics
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND PHY 2048 AND PHZ 4113*

Laws of thermodynamics and their application to simple systems, kinetic theory of gases, introduction to the classical and quantum statistical mechanics of weakly interacting systems.

PHY 4604 Quantum Theory I
College of Sci and Engineering, Department of Physics
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.

PHY 4605 Quantum Theory II
College of Sci and Engineering, Department of Physics
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 Physics Lab
College of Sci and Engineering, Department of Physics
3 sh (may not be repeated for credit)
Prerequisite: PHY 3107 AND PHY 3802L

Advanced laboratory topics are treated. Modern physics laboratory equipment is used to introduce students to current laboratory practices.

PHY 4905 Directed Study
College of Sci and Engineering, Department of Physics
1-12 sh (may be repeated indefinitely for credit)
Prerequisite: PHY 2049

Undergraduate experimental or theoretical research under the direction of physics faculty.

PHY 5905 Directed Study
College of Sci and Engineering, Department of Physics
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 Physics Skills
College of Sci and Engineering, Department of Physics
1 sh (may not be repeated for credit)
Prerequisite: PHY 2049

A professional development course for students in physics. Introduction to necessary skills for upper division physics courses, including problem solving strategies, reading and interpretation of scientific papers, LaTeX, critical thinking, resumes, and communication of physics.

PHZ 3151C Introduction to Scientific Computing
College of Sci and Engineering, Department of Physics
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
College of Sci and Engineering, Department of Physics
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
College of Sci and Engineering, Department of Physics
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
College of Ed and Prof Studies, Department of Administration and 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.

PLA 3020 Law and Society
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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 3106  Legal Research and Writing
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and 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
College of Ed and Prof Studies, Department of Administration and 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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and 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
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

PLA 3940  Service Learning
College of Ed and Prof Studies, Department of Administration and Law
3-6 sh (may be repeated for up to 6 sh of 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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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.
PLA 4204  Civil Procedure  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
3 sh (may not be repeated for credit)  
Prerequisite: PLA 4204*  
A case through the trial process from opening statements through verdict.  

PLA 4236  Evidence  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and 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  
College of Ed and Prof Studies, Department of Administration and 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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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 4885  Constitutional Law for the Legal Professional  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
1-12 sh (may be repeated indefinitely for credit)  

PLA 4941  Legal Studies Internship  
College of Ed and Prof Studies, Department of Administration and Law  
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  
College of Ed and Prof Studies, Department of Administration and Law  
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  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

POR 2905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

POR 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)  

POS-Political Science Courses  

POS 2041  American Politics  
Col of Arts, Soc Sci and Human, Department of Government  
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.
This course introduces students to methods of analysis used by political scientists. Students learn to approach analysis like a social scientist employing existing theories to set up the evaluation of evidence and information. Common sources of political evidence such as polls, surveys, and coded data sets may provide a basis for applied analysis in the course. Political issues are considered as students learn to apply tools such as visual data interpretation, statistical analysis, coding qualitative sources, and modeling to derive insights.

This course is designed to introduce students of American politics to the practical side of campaigns and elections. The class will undertake an extensive examination of the local, state, and national elections to be held during the fall by focusing on candidates, parties, interest groups, and the media as well as some of the new influences in elections such as political consultants and pollsters. The focuses on the electoral process as well as the primary and general phases of American elections.

We begin our exploration of the American presidency with a critical overview of the constitutional parameters of the executive office. What did our founding fathers expect from an executive? From there we examine how the presidential institution has evolved since the founding. The presidency definitely has a somewhat different place 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.

Politics of accommodation in formulating authoritative policies and general rules; emphasis on U.S. Congress and Florida Legislature in action; relations to other governmental processes.

Political parties, nominations, campaigns, elections, voting behavior, political recruitment, party organization and parties as managers of government. Roles and functions of interest groups.
POS 4673  Jurisprudence
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

POS 4941  Internships
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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 6704  Political Science Research Methods
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

POS 6971  Thesis
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
Significant American political theorists, schools of thought and their influence on the political system.
POT 4601  Modern Masters of Political Thought  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)

POT 5016  Seminar in Political Theory  
Col of Arts, Soc Sci and Human, Department of Government  
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 5602  Modern Masters of Political Thought  
Col of Arts, Soc Sci and Human, Department of Government  
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  
Col of Arts, Soc Sci and Human, Department of Government  
1-12 sh (may be repeated indefinitely for credit)

PPE-Personality Courses  

PPE 4003  Theories of Personality  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PPE 5905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSB-Psychobiology Courses  

PSB 4002  Brain, Behavior, and Experience  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSB 5035  Cognitive Neuroscience  
College of Health, Department of Psychology  
3 sh (may not be repeated for credit)  
Biological bases of mind and behavior: History and methods of cognitive neuroscience; evolutionary perspectives on cognition; neural substrates of development and motor control, attention and perception, learning and memory, language and consciousness, cerebral lateralization and specialization.

PSB 5905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSB 6905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSY-Psychology Courses  

PSY 2012  General Psychology  
College of Health, Department of 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  
College of Health, Department of 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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSY 3213  Research Methods in Psychological Science I  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
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 3860  Positive Psychology  
College of Health, Department of 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 3905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSY 3948  Service Learning Field Study II  
College of Health, Department of Psychology  
1-3 sh (may be repeated for up to 4 sh of credit)  
Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty customize courses to fit a full range of services available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required. Graded on a satisfactory / unsatisfactory basis only.

PSY 4302  Psychology of Assessment  
College of Health, Department of Psychology  
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  
College of Health, Department of 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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

PSY 4930  Capstone in Psychology: Special Topics  
College of Health, Department of Psychology  
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  
College of Health, Department of 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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

PSY 6217  Research Design in Psychology
College of Health, Department of 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
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

PSY 6917  Supervised Research
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
1-6 sh (may be repeated for up to 12 sh of credit)
Students are required to complete 350 hours of I-O-related high-impact activities under the supervision of an external supervisor in an organizational setting, and the internal internship coordinator. Using a scientist-practitioner approach, students will integrate their internship experiences with what they learned in the classroom through written work and presentations. Students may enroll for more than one term-total of 6sh required for M.A. degree. Permission to enroll is required.

PSY 6953  Research Capstone I
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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
College of Health, Department of Psychology
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.

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

PUP-Public Policy Courses

PUP 4004  Public Policy
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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 4905  Directed Study
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)
PUP 5045  Public Policy Analysis
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

PUR-Public Relations Courses

PUR 3000  Principles of Public Relations
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: COM 2713
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 3404  International Public Relations
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: ENC 1102 OR COM 2713
This course examines public relations theory and practice from a global perspective. A primary function of the course is to prepare students for the professional practice of public relations across cultures. Course content will provide an overview of cultural and political differences in media systems and the impact of public relations practice. Students will have the opportunity to review case studies, theory and practice in regions with established and emerging public relations industries. Meets Multicultural Requirement.

PUR 3905  Directed Study
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

PUR 4203  Public Relations Law and Ethics
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: (COM 3003 OR PUR 3000) AND (PUR 3100)
A capstone course 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. Credit may not be received in both PUR 4801 and PUR 4802.

PUR 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)
**Descriptions**

**PUR 4930  Current Issues and Trends in Public Relations**
Col of Arts, Soc Sci and Human, Department of Communication
3 sh (may not be repeated for credit)
Prerequisite: (COM 3003 OR PUR 3000) AND (PUR 3100)

Focuses on a range of current issues facing the public relations profession from a theoretical and practical perspective. Exploration of selected topics such as emerging trends in the use of technology, diversity and multiculturalism, increased use of social media, and environmental issues impacting the organization. Senior status within the PR major required.

**PUR 6905  Directed Study**
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

**PUR 6937  Emerging Topics in Public Relations**
Col of Arts, Soc Sci and Human, Department of Communication
1.5 sh (may be repeated for up to 3 sh of credit)

Provides students with an advanced-level understanding of public relations theory and practice. Depending on emerging issues and market needs, areas of study may include issues in international public relations, social media and analytics, public affairs, crisis management, and more.

**QMB-Quantitative Methods in Business Courses**

**QMB 3820  Introduction to Quantitative Models for Business Decisions**
College of Business, Department of Management & MIS
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 two courses: MAN 3550 and QMB 3820.

**QMB 6305  Quantitative Methods for Business**
College of Business, Department of Business Admin, General
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**
Col of Arts, Soc Sci and Human, Department of English
1-12 sh (may be repeated indefinitely for credit)

**RED-Reading Education Courses**

**RED 3310  Literacy Instruction for the Intermediate Learner**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314

This course prepares educators 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 instruction that provides appropriate accommodations for students with special needs.

**RED 3905  Directed Study**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

**RED 4542C  Assessment and Differentiated Instruction in Reading**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)

**RED 5515  Classroom Reading Assessments**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
1-12 sh (may be repeated indefinitely for credit)
RED 6060  Foundations of Middle and Secondary Literacy  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Prerequisite: EDF 6460  
Course work with required clinical experience to develop competence in determining causes and degrees of reading disabilities and identifying appropriate corrective or remedial instruction to meet the specific needs of students.

RED 6701  The Organization and Administration of Literacy Programs  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
Review of significant research in reading, introduction to techniques and critical analysis of reading research, review and comparison of trends in development of materials, approaches and reading programs.

RED 6866  Reading Practicum  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

REE-Real Estate Courses

REE 4905  Directed Study  
College of Business, Department of Accounting & Finance  
1-12 sh (may be repeated indefinitely for credit)

REL-Religion Courses

REL 1300  World Religions  
Col of Arts, Soc Sci and Human, Department of Philosophy  
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  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may be repeated indefinitely for credit)

REL 3241  Studies in the New Testament  
Col of Arts, Soc Sci and Human, Department of Philosophy  
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 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may be repeated indefinitely for credit)

REL 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may be repeated indefinitely for credit)

RTV-Radio/Television Courses

RTV 3210  Radio Production  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: RTV 3533  
This course will examine the unique aspects of non-studio television production styles, techniques and formats. This is a hands-on, equipment-intensive course. Credit may not be received in both RTV 3511, 3320 and RTV 3320C.

RTV 3533  Television Production  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
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  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)

RTV 3942  Practicum: Television News  
Col of Arts, Soc Sci and Human, Department of Communication  
3 sh (may not be repeated for credit)  
Prerequisite: ((RTV 3353 AND RTV 3511)) AND (JOU 3100 OR FIL 4102)  
Experience in production of a weekly television news program telecast to the local community.

RTV 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)

RTV 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Communication  
1-12 sh (may be repeated indefinitely for credit)

RUS-Russian Language Courses

Religion Graduate Courses

RLG 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Philosophy  
1-12 sh (may not be repeated for credit)

SCE-Science Education Courses

SCE 3905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

SCE 4310  Teaching Science in the Elementary School  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)

SCE 6905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)
SDS-Student Develop Services Courses

SDS 6345  Educational and Vocational Guidance
College of Health, Department of Psychology
3 sh (may not be repeated for credit)
Socio-psychological forces influencing career choice; identification, selection and use of educational and career guidance resources; use of decision-making concepts and skills in choosing educational and occupational alternatives.

SDS 6647  Foundations of Counseling Principles for Student Affairs Administration
College of Ed and Prof Studies, Department of Educational Research & Admin
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.

SDS 6905  Directed Study
College of Health, Department of Psychology
1-12 sh (may be repeated indefinitely for credit)

SLS-Student Life Skills Learn Courses

SLS 1109  Foundations for Academic Success
Academic Engagement, Department of Student Life Skills
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
Academic Engagement, Department of Student Life Skills
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
Academic Engagement, Department of Student Life Skills
1-12 sh (may be repeated indefinitely for credit)

SLS 2940  Internship Experience
Academic Engagement, Department of Student Life Skills
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 not yet returning to UWF for their second year of study. These students will be 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.

SLS 2942  Disney Field Experience
Academic Engagement, Department of Student Life Skills
1 sh (may not be repeated for credit)
Paid work experience at Walt Disney World coupled with a College Program Course of the students' choosing. Engages students in a rigorous and challenging professional academic program to advance career research with an emphasis on exploration, analysis, and application. Graded on satisfactory / unsatisfactory basis only. Permission is required.

SLS 4408  Career Strategies Workshop
College of Ed and Prof Studies, Department of Instructional Design and Tech
1 sh (may not be repeated for credit)
Students will develop the strategies necessary to conduct effective job searches and identify appropriate graduate education opportunities to achieve their individual career goals. Students will identify and participate in career-specific networking opportunities to enhance their professional development.

SLS 4940  Internship Experience
Academic Engagement, Department of Student Life Skills
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
College of Health, Department of 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  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

SOP 4702  Psychology and Gender  
College of Health, Department of Psychology  
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 4905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

SOP 5905  Directed Study  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

SOP 6069  Advanced Social Psychology  
College of Health, Department of 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  
College of Health, Department of Psychology  
3 sh (may not be repeated for credit)  
Prerequisite: SOP 6669  
Organizational development: change agentry, role of self in O.D., change theory, feedback methodology, relationship building, team building and quality, Lab learning methodology.

SOP 6669  Advanced Organizational Psychology  
College of Health, Department of 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  
College of Health, Department of Psychology  
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  
College of Health, Department of Psychology  
1-12 sh (may be repeated indefinitely for credit)

SOW-Social Work Courses

SOW 2192  Understanding Relationships in the 21st Century  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department 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
College of Ed and Prof Studies, Department of Social Work
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. Permission is required.

SOW 3314  Case Management
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
3 sh (may not be repeated for credit)
Prerequisite: SOW 3203 AND SOW 3350
One of four practice courses designed to prepare the student for
generalist social work. Through agency experience, classroom
instruction, and introspective discussion, students develop self-
awareness, beginning skills and knowledge, and a professional
attitude. Students are introduced to a social agency setting, the
varying needs and vulnerabilities of clients served, the problem solving
process, and the development of basic knowledge and skills necessary
in helping relationships with systems of various sizes. Restricted to
social work majors. Permission is required.

SOW 3650  Introduction to Child Welfare
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
3 sh (may not be repeated for credit)
The purpose of this course is to educate social work students
on human trafficking and develop a framework for professional
intervention. This course is designed to examine the human trafficking
phenomenon of modern day slavery of men, women, and children.
Course content will include the examination of domestic and
international policy, the differences in labor and sexual trafficking, and
the scope and prevalence of human trafficking as an international
concern. The socio-political, cultural, and economic issues that
contribute to the increased phenomenon of trafficking with women and
children will be explored as well as the traumatic effects on victims,
families, and the community. The social workers role in providing
intervention and advocacy services will be explored.

SOW 3905  Directed Study
College of Ed and Prof Studies, Department of Social Work
1-12 sh (may be repeated indefinitely for credit)

SOW 4111  Adolescents At Risk
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
This course is designed with a definition and understanding of contemporary family forms and family function, both normative and in crisis, and to introduce modalities for assisting troubled families. This course also 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 practical applications of family social work.

SOW 4403  Social Work Research Foundations  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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 4700  Substance Abuse Prevention and Treatment: Special Issues  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Assists the student, both personally and as a professional helping others, to approach death and dying with enhanced knowledge, sensitivity, and less dread and denial. Examines historical, social, legal, cultural, and interpersonal aspects of death and bereavement within the context of professional practice. Offered concurrently with SOW 5745; graduate students will be assigned additional work. Credit cannot be received for both SOW 4682 and SOW 4740.

SOW 4905  Directed Study  
College of Ed and Prof Studies, Department of Social Work  
1-12 sh (may be repeated indefinitely for credit)  
SOW 4941  Immersive Experiences in Social Work  
College of Ed and Prof Studies, Department of 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  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Prerequisite: SOW 5757*  
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  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Prerequisite: SOW 5757*  
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Prerequisite: SOW 5757*  
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 5305  Generalist Practice I  
College of Ed and Prof Studies, Department of Social Work  
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 5324  Generalist Practice II  
College of Ed and Prof Studies, Department of Social Work  
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  
College of Ed and Prof Studies, Department of Social Work  
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 5404  MSW Research Foundations  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Prerequisite: SOW 5757*  
An introduction to research methodology in the evaluation of social work practice and program evaluation.
SOW 5532  Foundation Year Field Instruction and Integrative Seminar
College of Ed and Prof Studies, Department of Social Work
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 5629  MSW Human Diversity and Social Justice
College of Ed and Prof Studies, Department of Social Work
3 sh (may not be repeated for credit)
Prerequisite: SOW 5757*
This course examines the impact of social, economic, and political environments on diverse populations specifically race, gender, age, ethnicity, social class, sexual orientation, gender identity, religion, and physical and mental ability. This course integrates the key elements of the social work profession through the lens of social, political, and economic justice. It includes the history, and philosophical foundations of social welfare, community organization, and social action strategies and tactics. Included are effects of cultural and group differences, the results of oppression, economic systems, and social policies on social work professional practice.

SOW 5710  Substance Abuse Treatment: Theories, Practices, and Policies
College of Ed and Prof Studies, Department of Social Work
3 sh (may not be repeated for credit)
This course is designed to provide students with background on the multiple issues associated with substance use and mental health disorders. This course will address substance abuse terminology, classification of substances, substance abuse/mental health policy and ethical dilemmas. Students will gain knowledge on evaluating, assessing, and developing treatment plans using evidence-based approaches for working with substance users and their families.

SOW 5757  The History, Philosophy, and Theory of Social Work Practice
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
1-12 sh (may be repeated indefinitely for credit)

SOW 5942  Immersive Experiences in Social Work
College of Ed and Prof Studies, Department of 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 6125  Psychopathology for Social Work
College of Ed and Prof Studies, Department of Social Work
3 sh (may not be repeated for credit)
Prerequisite: SOW 5105 AND SOW 5106 AND SOW 5218 AND SOW 5305 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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
3 sh (may not be repeated for credit)
Prerequisite: SOW 6125*
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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
College of Ed and Prof Studies, Department of Social Work
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 group through a written and oral presentation of case material. Focus is on refinement of intervention skills relying on field practicum experience for integration of learning. Integration of knowledge from the Clinical Practice courses and Field Instruction. Students will prepare and present a case from their internship for oral presentation and demonstrate ability to organize and select appropriate treatment strategies for a specific client, family, or group. A broad range of field placements will provide diverse clients and a range of clinical issues. Students are expected to show evidence of critical thinking and self-awareness in written and oral presentations.
SOW 6618  Clinical Practice with Individuals  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Prerequisite: SOW 6125*  

This course builds on the knowledge base of generalist social work practice and expands and deepens that base. The course emphasizes advanced assessment of clients across the life span, trauma assessment, and beginning evaluation of practice skills. Treatment planning with individuals is stressed. Building on the generalist practice base for analyzing and interpreting bio-psycho-socio-spiritual content, interpreting and implementing professional values and ethics and utilizing the professional helping relationship, this course expands and deepens that base by introducing an advanced clinical practice base of clinical-community social work. Major contemporary theories of psychotherapy will be introduced, including cognitive-behavioral, experiential, interpersonal, and integrative therapies. We will investigate clinical processes as they are informed by psychopathology and developmental issues across the life cycle, as well as institutionalized oppression, poverty, racism, sexism, heterosexism and other inequities. This course is open to students admitted to the MSW program only.

SOW 6619  Clinical Practice with Families  
College of Ed and Prof Studies, Department of Social Work  
3 sh (may not be repeated for credit)  
Prerequisite: SOW 6125*  

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 6678  Grief, Loss, and Life  
College of Ed and Prof Studies, Department of Social Work  
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 66916  Mind/Body Practice and Positive Psychology  
College of Ed and Prof Studies, Department of Social Work  
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of Communication
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  Great Speeches in American History
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

SPC 4540  Propaganda and Persuasion
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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, metaphorical criticism, narrative criticism, pentadic criticism, generative criticism.

SPC 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

SPC 6545  Persuasion
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
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
Col of Arts, Soc Sci and Human, Department of Communication
1-12 sh (may be repeated indefinitely for credit)

SPM-Sports Management Courses

SPM 2010  Sport in Global Society
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004*
This course is designed to provide students an overview of the major components of both facility and event management: planning, financing, marketing, implementation, and evaluation. The course focuses on a broad range of facilities and events to demonstrate the diversity of the industry, touching on various topics relating to recreation, leisure, health, and fitness. The objective of the course is to provide a working knowledge of how to manage sport facilities and how to plan, manage, implement, and evaluate sport events.

SPM 3115  Organizational Management and Leadership in Sport
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004*
Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting.

SPM 3905  Directed Study
College of Ed and Prof Studies, Department of Administration and Law
1-12 sh (may be repeated indefinitely for credit)

SPM 3941  Sport Management Internship
College of Ed and Prof Studies, Department of Administration and Law
1-6 sh (may be repeated for up to 6 sh of credit)
Prerequisite: SPM 3004
The Sport Management Internship course provides students with an opportunity to explore their career interests and apply classroom knowledge and skills in a professional setting. The internship also allows students to begin to build a professional network. The course credit hours can range from 1-6 hours to meet the needs of the student and the host site.

SPM 4003  Sport Management Careers Seminar
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
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
College of Ed and Prof Studies, Department of Administration and Law
3 sh (may not be repeated for credit)
Prerequisite: (ECO 2013 OR ECO 3003*) AND (SPM 3004)
The course includes a review of the foundations of economics and their applications in the sport industry. Students will learn how leagues and teams function most efficiently to meet their goals of profit and/or win maximization.

SPM 4505  Principles and Issues in Sport Finance
College of Ed and Prof Studies, Department of Administration and Law
3 sh (may not be repeated for credit)
Prerequisite: ECO 3003 AND 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.
This course is not available for native speakers.

time, students are required to do one hour of laboratory work per week.

reading Spanish. In addition to the three hours of scheduled classroom

For students with no knowledge of Spanish or with less than two years

experience, as well as potentially benefit the sport organization for

will complete a capstone project that should advance their learning

in the sport industry, learn about the characteristics of a governing body, and analyze the role of policy in sport governance.

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.

A 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 are not yet prepared for advanced work in the language. Pre-requisite: SPN1121C (minimum grade of C) or successful completion of a placement test.

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**

For students with no knowledge of Spanish or with less than two years of high school Spanish. Lays a foundation for speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week. This course is not available for native speakers.

**SPN 1121C  Spanish II**

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**

**SPN 2200  Intermediate Reading and Translation**

**SPN 2210  Intermediate Composition & Conversation**

**SPN 2905  Directed Study**

**SPN 3400  Advanced Stylistics**

**SPN 3410  Composition and Conversation**

**SPN 3905  Directed Study**
SPN 4500  Spanish Civilization
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
Cultural and historical background of Spain. Meets Multicultural Requirement.

SPN 4520  Latin American Culture and Civilization
Col of Arts, Soc Sci and Human, Department of Government
3 sh (may not be repeated for credit)
Cultural and historical backgrounds of Latin American literature. Meets Multicultural Requirement.

SPN 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

SPN 4955  Intensive Spanish Abroad
Col of Arts, Soc Sci and Human, Department of Government
3 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.

SPW 3190  Topics in Hispanic Literature
Col of Arts, Soc Sci and Human, Department of Government
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
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

SPW 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

SPW 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Government
1-12 sh (may be repeated indefinitely for credit)

SSE 4113  Social Studies for Elementary Teachers
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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.

STA 2023  Elements of Statistics
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105* OR MAC 1105C* OR 26 SAT15 Math Sub OR MAT 1033* OR MGF 1106* OR MGF 1107* OR 22 ACT Math OR 520 SAT Math OR 123 PERT Math
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
College of Sci and Engineering, Department of Mathematics & Statistics
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311 OR STA 2023
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
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

STA 4051  Nonparametric Statistics
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 OR MAC 2311 OR MAC 2233
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 nonparametic 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 4173  Biostatistics
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 OR 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
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
Prerequisite: STA 2023 OR MAC 2311
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, Multicollinearity, Variable Selection and Model Building, Validation of Regression Models, Introduction to Logistic Regression.

STA 4321  Introduction to Mathematical Statistics I
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)

STA 5108  MathStat Tools
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
MathStat Tools will cover computer-oriented statistics projects using various software programs. This course provides students with a fundamental hands-on experience with SAS, R, Matlab, and Latex. Topics include data manipulation and management, statistical and mathematical functions, and common statistical procedures and techniques. Successful completing assignments require a mix of computing and statistics/mathematics.

STA 5176  Statistical Modeling
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
This course will provide further examination of statistics and data analysis beyond an introductory course. Topics covered include data visualization, point, and interval estimation, hypothesis testing of means, variances, and proportions, and linear and logistic regressions. Emphasis will be placed on conducting reproducible research.

STA 5326  Statistical Inference
College of Sci and Engineering, Department of Mathematics & Statistics
3 sh (may not be repeated for credit)
This course provides hands-on experience with SAS, R, Matlab, and Latex. Topics include data manipulation and management, statistical and mathematical functions, and common statistical procedures and techniques. Successful completing assignments require a mix of computing and statistics/mathematics.

STA 4322  Introduction to Mathematical Statistics II
College of Sci and Engineering, Department of Mathematics & Statistics
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
College of Sci and Engineering, Department of Mathematics & Statistics
1-12 sh (may be repeated indefinitely for credit)
STA 5905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)  

STA 6235  Modeling in Regression  
College of Sci and Engineering, Department of Mathematics & Statistics  
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 $X^T X$ matrix, logistic regression, ridge regression, robust regression, and generalized linear models.  

STA 6246  Design and Analysis of Experiments  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & 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  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & Statistics  
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 6856  Time Series Analysis  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
Time series data are time-oriented data that can be used to forecast future values or to analyze data. This course provides students with a fundamental understanding of the nature and basic processes used to analyze such data. This course also introduces the theory and practice of time series analysis, with an emphasis on practical skills. Successful completion of assignments requires a mix of computing and statistics/mathematics.  

STA 6905  Directed Study  
College of Sci and Engineering, Department of Mathematics & Statistics  
1-12 sh (may be repeated indefinitely for credit)  

STA 6912  Statistics Research 1  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & Statistics  
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  
College of Sci and Engineering, Department of Mathematics & 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 6950  Capstone Projects in Statistics  
College of Sci and Engineering, Department of Mathematics & Statistics  
3 sh (may not be repeated for credit)  
This course will give students the opportunity to engage in group and independent research projects. Research topics and materials vary according to the instructor with the thrust being applied or theoretical Statistics. Technical reports and oral presentations will be expected of each student.

STA 6971  Thesis  
College of Sci and Engineering, Department of Mathematics & Statistics  
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.

SYD-Sociology of Demog/Area Courses  
SYD 3810  Introduction to Women’s Studies  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  
SYD 4800  Sociology of Sex Roles  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  
SYD 5905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  
SYD 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)

SYG-Sociology: General Courses  
SYG 2000  Introduction to Sociology  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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  
Col of Arts, Soc Sci and Human, Department of Anthropology  
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 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  
SYG 4905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  
SYG 5905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)  
SYG 6905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Anthropology  
1-12 sh (may be repeated indefinitely for credit)
SYO-Social Organizations Courses

SYO 3100  The Family
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYO 4250  Sociology of Education
Col of Arts, Soc Sci and Human, Department of Anthropology
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.

SYO 4530  Inequality in America
Col of Arts, Soc Sci and Human, Department of Anthropology
3 sh (may not be repeated for credit)
This course is an introduction to the cultural and structural factors creating and sustaining social inequality by race, ethnicity, gender, class, disability and sexual orientation. Meets Multicultural Requirement.

SYO 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYO 5255  Sociology of Education
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYO 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYP-Social Processes Courses

SYP 3630  Popular Culture
Col of Arts, Soc Sci and Human, Department of Anthropology
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
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYP 4905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYP 5905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)

SYP 6905  Directed Study
Col of Arts, Soc Sci and Human, Department of Anthropology
1-12 sh (may be repeated indefinitely for credit)
Speech Education Courses

TAX-Taxation Courses

TAX 4001  Tax Accounting
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001
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
College of Business, Department of Accounting & Finance
1-12 sh (may be repeated indefinitely for credit)

TAX 5105  Corporate Income Tax
College of Business, Department of Accounting & Finance
3 sh (may not be repeated for credit)
Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earning 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
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
1-12 sh (may be repeated indefinitely for credit)

TAX 6065  Tax Data Bases, Research and Procedure
College of Business, Department of Accounting & Finance
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
College of Business, Department of Accounting & Finance
3 sh (may not be repeated for credit)
Estate and gift taxation and Subchapter J with emphasis on family tax planning.

TAX 6905  Directed Study
College of Business, Department of Accounting & Finance
1-12 sh (may be repeated indefinitely for credit)

THE-Theatre Stud Gen Reso Courses

THE 2000  Theatre Appreciation
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)

THE 2905  Directed Study
Col of Arts, Soc Sci and Human, Department of Theatre
1-12 sh (may be repeated indefinitely for credit)

THE 2925  Play Production
Col of Arts, Soc Sci and Human, Department of Theatre
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 3062  Theatre Ireland Experience
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may be repeated for up to 6 sh of credit)
Prerequisite: THE 2000
Research and explore the culture and history of Ireland through the regional festivals, and work with Carlow College. The class will meet with a variety of faculty from Carlow College and do field research based on lectures given at the college.
THE 3092  Theatrical Production & Performance
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Theatre history from origins through the eighteenth century.

THE 3113  History of Theatre II
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Theatre history from eighteenth century through the present.

THE 3243  Musical Theatre History
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
History and development of musical theatre from origins to present.

THE 3287  Architecture and Decor
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Prerequisite: THE 2000
This course will take students through visual history of architecture and decor from ancient times to present. Covering architectural changes and the significance of the decor associated with each time period and region.

THE 3306  Dramatic Literature II
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
1-12 sh (may be repeated indefinitely for credit)

THE 4260  Costume History
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Historical periods of costume and fashion from ancient times to the present, their relation to theatre history, and potential use as sources for theatrical costume design.

THE 4970  Senior Project
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
1-12 sh (may be repeated indefinitely for credit)

TPA-Transportation Logistics Courses
TPA 2000  Design for the Theatre
Col of Arts, Soc Sci and Human, Department of 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 2017L  Drawing for the Stage
Col of Arts, Soc Sci and Human, Department of Theatre
1 sh (may not be repeated for credit)
Prerequisite: THE 2000
This lab course gives students the skills and practice needed to sketch, render and draft design ideas. Design ideas relating to costume, lighting, set, scenic painting or any other design related objective.

TPA 2200  Technical Theatre
Col of Arts, Soc Sci and Human, Department of 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
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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 3230  Costume Construction  
Col of Arts, Soc Sci and Human, Department of Theatre  
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 3344  Drafting for the Stage  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
1-12 sh (may be repeated indefinitely for credit)

TPA 4045  Costume Design I  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
1-12 sh (may be repeated indefinitely for credit)

TPA 5905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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
Col of Arts, Soc Sci and Human, Department of Theatre
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 2102L  Acting Studio
Col of Arts, Soc Sci and Human, Department of Theatre
1 sh (may be repeated for up to 8 sh of credit)
Prerequisite: TPP 2250
Studio Class provides an immersive space for actors to develop
and hone their instruments and to exercise their abilities to express
freedom, power, range and sensitivity in their lives on stage.

TPP 2110  Acting I
Col of Arts, Soc Sci and Human, Department of Theatre
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 2167C  Acting for Musical Theatre
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Prerequisite: TPP 2110
Co-requisite: TPP 2715L
Exploring practical acting technique as it applies to musical theatre
scene, song and monologue study.

TPP 2190  Rehearsal and Performance
Col of Arts, Soc Sci and Human, Department of Theatre
1 sh (may not be repeated for credit)
Prerequisite: TPP 2110
Production involvement in any area of theatre performance.
Permission is required. Material and Supply Fee will be assessed.

TPP 2250  Music Theatre Fundamentals
Col of Arts, Soc Sci and Human, Department of Theatre
2 sh (may not be repeated for credit)
Co-requisite: TPP 2250L
This course is designed to introduce students to the theories
supporting music readiness. Students will learn and be able to
demonstrate skills in sight-reading including rhythm, aural skills,
and functional piano. All elements of this course will be tailored to
be applicable to the student’s study in musical theatre and will be
practiced weekly during lab hours. Permission is required. Offered Fall
semester only.

TPP 2250L  Musical Theatre Vocal Theory Lab
Col of Arts, Soc Sci and Human, Department of Theatre
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 2513C  Movement for the Actor
Col of Arts, Soc Sci and Human, Department of Theatre
2 sh (may be repeated for up to 4 sh of credit)
Beginning course in the exploration of movement and bodywork for
the stage. Required of all theatre majors and directed primarily toward
preparation for stage work.

TPP 2715L  Music Theatre Voice I
Col of Arts, Soc Sci and Human, Department of Theatre
1 sh (may be repeated for up to 4 sh of credit)
Prerequisite: TPP 2250
This course focuses on the foundation of the voice through classical
methods. Vocal technique and repertoire knowledge necessary for
performance in Musical Theatre. Emphasis is given to breath control,
tone production, and interpretation of songs for musical theatre
productions.

TPP 2744C  Voice for the Actor
Col of Arts, Soc Sci and Human, Department of Theatre
1 sh (may be repeated for up to 4 sh of credit)
Prerequisite: THE 2000
Beginning course in the exploration of the source and placement of the
voice for the stage and the process of developing individual expression
strength. Required of all performance students in theatre and
directed primarily toward preparation for stage work.

TPP 3121  Acting Improvisation
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
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
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Prerequisite: TPP 2100
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
Col of Arts, Soc Sci and Human, Department of Theatre
3 sh (may not be repeated for credit)
Prerequisite: TPP 2110
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  Music Theatre Voice II  
Col of Arts, Soc Sci and Human, Department of Theatre  
1 sh (may be repeated for up to 6 sh of credit)  
Prerequisite: TPP 2004L  
This course will focus on interpretation and contemporary music theatre technique. Vocal technique and repertoire knowledge necessary for performance in Musical Theatre. Emphasis is given to breath control, diction, tone production, and interpretation of songs for musical theatre production.  

TPP 3260  Acting for the Camera  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
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 3905  Directed Study  
Col of Arts, Soc Sci and Human, Department of Theatre  
1-12 sh (may be repeated indefinitely for credit)  

TPP 4113  Acting III  
Col of Arts, Soc Sci and Human, Department of Theatre  
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  
Col of Arts, Soc Sci and Human, Department of Theatre  
1-12 sh (may be repeated indefinitely for credit)
**TRA 5159  Seminar in Supply Chain Logistics Strategy**
College of Business, Department of Mktg, Sply Chain Logis & Econ
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 5206  Logistics Systems and Analytics**
College of Business, Department of Mktg, Sply Chain Logis & Econ
3 sh (may not be repeated for credit)

Students will learn to make improved business logistics and supply chain management decisions through the practical application of multiple analytical techniques used by managers in the field. Emphasis is placed on supply chain network analysis and design, inventory analysis and decision making, equipment and resource management, information management systems for analyzing and executing logistics decisions, and process management improvements to reduce total logistics cost and improve logistics service. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with TRA 4202; graduate students will be assigned additional work.

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

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**TSL-Teach Eng as a Second Lang Courses**

**TSL 4081  Teaching English to ESOL Students**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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 5085  ESOL Principles and Practices**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
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**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)

The course is designed to prepare teachers of English language learners (ELLs) to help them recognize and meet the unique academic needs of ELLs in learning content and their development of English as an additional language. Students enrolled in the course are required to create and adapt materials in all four language skills (reading, writings, 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.

**TSL 5250  Applied Linguistics**
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership
3 sh (may not be repeated for credit)

This 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.
TSL 5345  Methods of Teaching ESOL  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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 learners (ELs). 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 theorist in the field of teaching English to speakers of other languages and examines their contribution to the education of ELs.

TSL 5440  ESOL Testing and Evaluation  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
3 sh (may not be repeated for credit)  
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.

TSL 5525  Cross Cultural Communication and Understanding  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
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.

TSL 5905  Directed Study  
College of Ed and Prof Studies, Department of Teacher Ed & Ed Leadership  
1-12 sh (may be repeated indefinitely for credit)
ZOO 4457  Ichthyology
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 2011/L AND STA 2023) OR MAC 1000
Avian Science is a course that describes and provides experience in the study of birds in order to answer questions about their basic ecology, with special emphasis on techniques for data collection and data management typically associated with research and monitoring of bird populations. Topics include species identification (visual and by song), movements and migration, habitat selection, foraging behavior, reproduction and nesting ecology, and demography (estimating survival, population size, nest success). Avian Science emphasizes S.T.E.M education, covering aspects of science, engineering, technology, and math important to many areas of ecology. Many of the techniques and concepts taught in this course, especially the sections on movements and spatial ecology, habitat selection, and demography, apply to fauna other than birds. Bird identification and survey experiences focus on species found on the UWF campus and on wintering waterfowl in local estuaries. The course consists of approximately 1/3 lectures and discussion, 1/3 laboratory exercise, and 1/3 field experiences. The class meets once per week for 2.75 hours. In addition, participation in one supervised day long (approximately 12-hrs) bird survey is required outside of normal class time, and may need to take place on a weekend (depending on survey schedule and weather). A one weekend field trip is required in this course, and students are expected to have the ability to hike and do field work. Graduate students will be assigned additional work.

ZOO 4485  Marine Mammalogy
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 5486; graduate students will be assigned additional work.

ZOO 4513  Animal Behavior
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

ZOO 5305C  Marine Vertebrate Zoology
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of 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
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
3 sh (may not be repeated for credit)
Avian Science is a course that describes and provides experience in the study of birds in order to answer questions about their basic ecology, with special emphasis on techniques for data collection and data management typically associated with research and monitoring of bird populations. Topics include species identification (visual and by song), movements and migration, habitat selection, foraging behavior, reproduction and nesting ecology, and demography (estimating survival, population size, nest success). Avian Science emphasizes S.T.E.M education, covering aspects of science, engineering, technology, and math important to many areas of ecology. Many of the techniques and concepts taught in this course, especially the sections on movements and spatial ecology, habitat selection, and demography, apply to fauna other than birds. Bird identification and survey experiences focus on species found on the UWF campus and on wintering waterfowl in local estuaries. The course consists of approximately 1/3 lectures and discussion, 1/3 laboratory exercise, and 1/3 field experiences. The class meets once per week for 2.75 hours. In addition, participation in one supervised day long (approximately 12-hrs) bird survey is required outside of normal class time, and may need to take place on a weekend (depending on survey schedule and weather). A one weekend field trip is required in this course, and students are expected to have the ability to hike and do field work. Graduate students will be assigned additional work.
ZOO 5486  Marine Mammology
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
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
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)

ZOO 6905  Directed Study
College of Sci and Engineering, Department of Biology
1-12 sh (may be repeated indefinitely for credit)
## Index

### A

- 990-999 Course Numbers ................................................................. 139
- About UWF ................................................................................. 3
- Academic Advising (After Admission) ........................................... 19
- Academic Advising (Registration Policies and Procedures) .......... 49
- Academic Calendar .................................................................... 5
- Academic Calendar and Departmental Deadlines ......................... 35
- Academic Common Market .......................................................... 46
- Academic Credit Policies ............................................................. 35
- Academic Misconduct Code, UWF .............................................. 40
- Academic Policies ....................................................................... 35
- Academic Programs and Curricula ................................................ 36
- Academic Progress (Military and Veterans' Information) .............. 21
- Academic Records (International Graduate Admission) .............. 13
- Academic Standing ..................................................................... 38
- Accelerated Bachelor's to Master's Programs ............................... 37
- Accessibility Resources for Students........................................... 60
- Accounting, M.Acc. .................................................................... 73
- Admission, After ......................................................................... 18
- Admission, Conditional ................................................................. 12
- Admission Denial, Appeal of ......................................................... 17
- Admission, International Graduate ............................................. 12
- Admission, Notice of (International Graduate Admission) .......... 12
- Admission, Provisional ................................................................. 12
- Admission Requirements ............................................................. 11
- Admission to a Doctoral Program, Requirements for Regular ....... 12
- Admission to a Master's Program, Requirements for Regular ....... 11
- Admission to an Educational Specialist Program, Requirements for Regular ................................................................. 11
- Admissions .................................................................................. 11
- Admissions, General Information .................................................. 14
- Advance Payment (Military and Veterans' Information) ................ 21
- Advancement to Candidacy ............................................................ 44
- Alabama Differential Out-of-State Tuition ................................... 32
- Alma Mater .................................................................................. 3
- Anthropology, M.A. ..................................................................... 77
- Appeals (Registration) ................................................................. 40
- Appeals (Grade) ......................................................................... 40
- Appeals (Late Fee Assessments and Refunds) .............................. 26
- Appeals (Other) .......................................................................... 41
- Appeals, Waivers, and Exceptions ............................................... 41
- ArgoAlert – Emergency Notification System ............................... 39
- Athletic Training, M.S. ................................................................. 79
- Audit Grading ............................................................................... 47
- Biology, M.S. ............................................................................... 81
- Bookstore ...................................................................................... 60
- Business Administration, M.B.A. ............................................... 83
- Campuses ...................................................................................... 6
- Career Services ............................................................................ 60
- Catalog Year ................................................................................ 36
- Center for Academic Success ...................................................... 60
- Certificate Programs, Graduate ................................................... 63
- Certification of Enrollment ........................................................... 45
- Certification of Finances (International Graduate Admission) ...... 14
- Chambered Nautilus .................................................................. 3
- Change of Program .................................................................... 37
- Change of Student Information .................................................... 51
- Child Care .................................................................................... 60
- Class Attendance ........................................................................ 41
- Classification of Courses ............................................................. 138
- Classification of Students ............................................................. 45
- Code of Conduct ......................................................................... 40
- College and Department Responsibilities ..................................... 19
- College Mission Statements ........................................................ 3
- College Student Affairs Administration, M.Ed. ......................... 88
- Commencement .......................................................................... 49
- Comprehensive or General Examination ..................................... 44
- Computer Science, M.S. .............................................................. 89
- Confidentiality (FERPA) ............................................................... 51
- Confidentiality Hold .................................................................... 53
- Continuous Enrollment ................................................................. 45
- Copy Services ............................................................................. 60
- Counseling and Wellness .............................................................. 60
- Course Equivalencies, General Rule for ..................................... 137
- Course Identifier, Example of .................................................... 137
- Course Information .................................................................... 137
- Course Level ................................................................................ 138
- Course Load/Maximum Hours Taken Per Semester ................... 50
# Index

### H
- Health Form/Health Insurance (International Graduate Admission) 14
- Health History ........................................ 18
- Health Informatics Graduate Certificate .......................... 65
- Health, Leisure, & Exercise Science, M.S. 107
- Health Promotion & Worksite Wellness, M.S. 109
- Health Services ........................................ 60
- Healthcare Administration, M.H.A. .......................... 110
- History, M.A. ........................................ 111
- Holds (Registration) ........................................ 51
- Hours (Course Information) .................................. 138
- Housing and Residence Life ................................. 60

### I
- ID/Nautilus Card ........................................ 60
- Information Technology, M.S. ............................. 114
- Information Technology Services (ITS) ....................... 60
- Instructional Design & Technology, M.Ed. ................. 117
- Instructional Design and Technology, Ed.D. .............. 115
- Intelligent Systems & Robotics, Ph.D. ........................ 71
- International Affairs, M.A. ................................ 119
- International Graduate Admissions .......................... 12
- International Student Advising ............................. 12
- International Student Exchange Programs .................. 14

### L
- Late Registration ......................................... 51
- Late Registration and Late Payment Fees .................... 29
- Loans .................................................................. 20

### M
- Master’s Degree Programs .................................... 61
- Master’s Degree Requirements ............................... 42
- Material & Supply Fees and Equipment Fees ............... 139
- Mathematical Sciences, M.S. ................................ 120
- Military and Veterans’ Information ........................... 21
- Misconduct (UWF Academic Misconduct Code) ........... 40
- Modes of Delivery (Course meetings) ....................... 36
- MyUWF (Student Portal) .................................... 53

### N
- Nautilus Card .............................................. 18
- Non-Degree Seeking Status (Enrollment) ................... 45
- Non-Degree Students (Academic Standing) ................. 39
- Non-Degree Students/Graduate Level Courses (Registration) 51

- Nursing, M.S.N. (Family Nurse Practitioner) ............. 104
- Nursing, M.S.N. ........................................ 122

### O
- Online Campus .............................................. 57
- Online Campus Programs .................................... 57
- Orientation .................................................. 19
- Out-of-State Tuition Waivers ................................. 57

### P
- Parking and Transportation .................................. 60
- Passports and Visas (International Graduate Admission) 14
- Payment Plan ................................................ 27
- Ph.D. Degree Requirements .................................. 44
- Photos (Student Photos) ..................................... 52
- Police, University ........................................... 8
- Political Science, M.A. ...................................... 123
- Postal Services ............................................... 60
- Posthumous Graduate Degree ................................ 49
- Probation (Academic) ........................................ 38
- Psychology, M.A. ........................................... 124
- Public Administration, M.S.A. ............................... 75
- Public Health, M.P.H. ....................................... 128
- Public Service and Research Centers ....................... 58

### R
- Reading Education, M.Ed. .................................. 132
- Readmission .................................................. 11
- Recreation and Sports Services .............................. 60
- Refund of Fees ............................................... 29
- Register for Classes ........................................ 18
- Registration ................................................... 49
- Registration Holds .......................................... 51
- Reinstatement (Academic Suspension) ....................... 39
- Reinstatement (Canceled Registration) ...................... 50
- Repeat Course Surcharge .................................... 51
- Repeated Courses .......................................... 46
- Reporting Requirements (Military and Veterans’ Information) 21
- Research Tools .............................................. 51
- Research Tools Requirement ................................. 44
- Residency, Determination of Dependent or Independent Status 31
- Residency Documentation ................................... 31
- Residency for Tuition Purposes ............................... 31
- Residency Status, Change of ............................... 33
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residency, Temporary Florida Residency</td>
<td>32</td>
</tr>
<tr>
<td>Restricted Courses</td>
<td>137</td>
</tr>
<tr>
<td>Return of Title IV Funds (Student Responsibility)</td>
<td>29</td>
</tr>
<tr>
<td>S</td>
<td></td>
</tr>
<tr>
<td>Scholarships</td>
<td>20</td>
</tr>
<tr>
<td>Semester Course Offered</td>
<td>139</td>
</tr>
<tr>
<td>Senior Citizen Tuition Fee Waiver</td>
<td>54</td>
</tr>
<tr>
<td>Skills Improvement Centers</td>
<td>60</td>
</tr>
<tr>
<td>Social Work, M.S.W.</td>
<td>133</td>
</tr>
<tr>
<td>Specialist Degree Program</td>
<td>62</td>
</tr>
<tr>
<td>Specialist Degree Requirements</td>
<td>42</td>
</tr>
<tr>
<td>State Employee Tuition Fee Waiver</td>
<td>55</td>
</tr>
<tr>
<td>Strategic Communication and Leadership, M.A.</td>
<td>135</td>
</tr>
<tr>
<td>Student Advocate</td>
<td>9</td>
</tr>
<tr>
<td>Student Educational Records</td>
<td>51</td>
</tr>
<tr>
<td>Student Employment (Types of Aid)</td>
<td>20</td>
</tr>
<tr>
<td>Student Employment (International Students)</td>
<td>14</td>
</tr>
<tr>
<td>Student Information (Change of)</td>
<td>51</td>
</tr>
<tr>
<td>Student Involvement</td>
<td>59</td>
</tr>
<tr>
<td>Student Ombudsperson</td>
<td>9</td>
</tr>
<tr>
<td>Student Ombudsperson</td>
<td>9</td>
</tr>
<tr>
<td>Student Printing</td>
<td>60</td>
</tr>
<tr>
<td>Student Records</td>
<td>51</td>
</tr>
<tr>
<td>Student Responsibilities (Academic Advising)</td>
<td>49</td>
</tr>
<tr>
<td>Student Rights and Responsibilities</td>
<td>18</td>
</tr>
<tr>
<td>Student Services and Resources</td>
<td>60</td>
</tr>
<tr>
<td>Student Technology and Email Requirement</td>
<td>53</td>
</tr>
<tr>
<td>Students with Disabilities (Technology)</td>
<td>53</td>
</tr>
<tr>
<td>Substitution of Graduation Requirements for Students with Disabilities</td>
<td>45</td>
</tr>
<tr>
<td>Suspension (Academic)</td>
<td>38</td>
</tr>
<tr>
<td>T</td>
<td></td>
</tr>
<tr>
<td>Technology Requirements</td>
<td>53</td>
</tr>
<tr>
<td>Testing</td>
<td>60</td>
</tr>
<tr>
<td>Thesis Requirement</td>
<td>44</td>
</tr>
<tr>
<td>Time to Degree</td>
<td>44</td>
</tr>
<tr>
<td>Transcripts</td>
<td>35</td>
</tr>
<tr>
<td>Transfer of Credit</td>
<td>53</td>
</tr>
<tr>
<td>Transfer of Funds</td>
<td>14</td>
</tr>
<tr>
<td>Traveling Scholar Program</td>
<td>54</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>26</td>
</tr>
<tr>
<td>Tuition and Fees Paid by Third Party</td>
<td>27</td>
</tr>
<tr>
<td>Tuition Deferment (Military and Veterans' Information)</td>
<td>24</td>
</tr>
<tr>
<td>Tuition Waivers</td>
<td>54</td>
</tr>
<tr>
<td>U</td>
<td></td>
</tr>
<tr>
<td>Unassigned Course Numbers (XXX and —) (Course Information)</td>
<td>138</td>
</tr>
<tr>
<td>University Responsibilities (Academic Advising)</td>
<td>19</td>
</tr>
<tr>
<td>University Vision, Mission, and Values</td>
<td>3</td>
</tr>
<tr>
<td>V</td>
<td></td>
</tr>
<tr>
<td>Vending Services/Beverage Rights</td>
<td>60</td>
</tr>
<tr>
<td>Veterans’ Benefits</td>
<td>23</td>
</tr>
<tr>
<td>W</td>
<td></td>
</tr>
<tr>
<td>Withdrawals</td>
<td>55</td>
</tr>
<tr>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Yellow Ribbon (Military and Veterans' Information)</td>
<td>23</td>
</tr>
<tr>
<td>Z</td>
<td></td>
</tr>
<tr>
<td>Zero Credit Course</td>
<td>51</td>
</tr>
</tbody>
</table>