



2015-2016

UNDERGRADUATE CATALOG

Table of Contents

University of West Florida Catalog	3
About UWF	4
Accreditation	4
Alma Mater	4
Chambered Nautilus	4
College Mission Statements	5
University Vision, Mission, and Values	5
Academic Calendar	7
Governance, Administration and Faculty	8
Governance and Administration	8
Faculty	8
Undergraduate Catalog	9
Undergraduate Admissions	10
Freshmen Admissions	10
Transfer Admissions	12
International Undergraduate Admissions	14
General Readmission	16
Appeal of Admission Denial	16
After Admission	17
Undergraduate Academic Policies	20
General Policies	20
Registration Policies and Procedures	27
Grades and Academic Credit Policies	32
Graduation and General Degree Requirements	36
Tuition and Fees	44
Residency for Tuition Purposes	49
Financial Aid	52
Military and Veterans' Information	54
Online Campus	57
Public Service and Research Centers	58
Student Involvement	59
Student Services and Resources	60
Undergraduate Degrees, Specializations, and Minors	67
Undergraduate Certificate Programs	70
Accounting	71
Anthropology	74
Arabic Language and Culture Certificate	79
Art	80
Athletic Training	83

Biology	86
Biology Honors	91
Business, General	91
Career and Technical Education	94
Chemistry, Bachelor of Arts	97
Chemistry, Bachelor of Science	103
Clinical Laboratory Sciences	108
Communication Arts	111
Community Health Education	116
Computer Engineering	119
Computing and Information Sciences	123
Criminal Justice	133
Economics	136
Economics, Business	139
Electrical Engineering	143
Elementary Education	147
Engineering Technology	151
English	156
Environmental Science	160
Exceptional Student Education	166
Finance	170
General Education	173
Fine Arts	175
Health, Leisure and Exercise Science	179
Health Sciences	189
History	193
Hospitality, Recreation, and Resort Management	196
Humanities, Interdisciplinary	199
Information Technology	202
International Studies	205
Legal Studies	208
Management	211
Management Information Systems	215
Marine Biology	219
Maritime Studies	222
Marketing	225
Mathematics	229
Microsoft Certified Systems Administration Certificate	231
Music	232
Music Education	235
Nursing	238

Nursing, Registered Nurse to Bachelor of Science in Nursing	241
Oceanography	244
Philosophy	244
Physics	247
Political Science	250
Pre-Engineering	254
Pre-Pharmacy	254
Professional Education Minor	254
Psychology	255
Public Administration Minor	259
ROTC, Army	260
ROTC, Air Force	262
Sciences, Interdisciplinary	263
Social Sciences, Interdisciplinary	269
Social Work	272
Supply Chain Logistics Management	276
Teacher Education Programs	279
Theatre	280
Theatre, Fine Arts	283
Associate of Arts	285
Course Information	286
General Information	286
Courses with Special Fees	288
Equipment Fees	288
Material and Supply Fees	291
Descriptions	294
Index	483

University of West Florida Catalog

The main campus, with 1,600 acres of rolling hills and natural woodland along the Escambia River, is ten miles north of downtown Pensacola. Our facilities were designed to complement the natural forest and waterways. In addition, the University of West Florida has waterfront property on Santa Rosa Island that is available for recreational, academic, and research pursuits. The University operates an Emerald Coast campus which includes the Joint NWFSC/UWF Campus, Eglin AFB Center, Research and Engineering Education Facility (REEF), Hurlburt Field office, and other locations. UWF also manages 29 historic properties in downtown Pensacola.

In 1963, the Florida Legislature authorized funds to establish the University of West Florida. The first president, Dr. Harold B. Crosby, assumed office in July 1964. Ground was broken on April 16, 1965, and the first students began classes in the fall of 1967. Dr. James A. Robinson, the second president, took office in 1974. Dr. Morris L. Marx was inaugurated as UWF's third president in 1988; Dr. John C. Cavanaugh was appointed as the fourth president on July 15, 2002. Dr. Judith A. Bense currently serves as president and was appointed on July 1, 2008. A 13-member Board of Trustees governs the University.

Currently, UWF enrolls more than 12,596 students in its College of Arts, Social Sciences, and Humanities, College of Business, College of Education and Professional Studies, and College of Science, Engineering, and Health has conferred more than 84,603 associate, bachelor's, master's, specialist, and doctoral degrees.

The UWF Welcome Center provides maps, parking permits, and information about facilities and campus events. Located at the east entrance to the campus, it has a drive-through window for automotive traffic and a lobby for walk-in visitors. Information concerning campus tours may be obtained from the Office of Undergraduate Admissions at (850)474-2230 or 1-800-263-1074. Information about off-campus locations can be obtained by calling UWF Emerald Coast at (850)863-6569.

More information about the University of West Florida and its programs is available at uwf.edu.

About UWF

In this section:

- Accreditation (p. 4)
- Alma Mater (p. 4)
- Chambered Nautilus (p. 4)
- College Mission Statements (p. 5)
- University Vision, Mission, and Values (p. 5)

Accreditation

For information about the University's institutional-level accreditation status, visit <http://uwf.edu/sacsoc>.

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

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

Social Work	Council on Social Work Education (CSWE)	B.A. M.S.W.
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The Professional Education Unit (including teacher preparation programs in the Department of Teacher Education and Educational Leadership, the Department of Exercise Science & Community Health, the Department of Music, and TeacherReady® (<http://www.teacherready.org>)) is currently accredited by the National Council for Accreditation of Teacher Education (NCATE (<http://ncate.org>)). This accreditation covers initial teacher preparation programs (traditional and alternative) and advanced educator preparation programs at the Pensacola and online campuses. However, the accreditation does not include individual education courses that the institution offers to P-12 educators for professional development, relicensure, or other purposes. In preparation to UWF's upcoming accreditation visit in 2017 the Professional Education Unit is currently aligning the educator preparation programs to the new Council for the Accreditation of Educator Preparation (CAEP (<http://caepnet.org>)) standards of educator preparation. At the state level, all initial certification programs have received approval by the Florida Department of Education (FLDOE) (<http://www.fldoe.org/core/fileparse.php/7721/urlt/universitywestflorida.pdf>). (<http://www.fldoe.org/core/fileparse.php/7721/urlt/universitywestflorida.pdf>)

Supporting Documentation:

The UWF School of Education Report Card: [Title II Report](#)

Alma Mater

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

Composer: Lynn Lauderdale, D.M.A.

Lyricist: A. Michael Yots, Ph.D.

Chambered Nautilus

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

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

College Mission Statements

College of Arts, Social Sciences and Humanities

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

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

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

College of Business

The mission of the College of Business is to provide a high quality, student-oriented, educational experience to baccalaureate and master's degree business students primarily from the Northwest Florida region.

With a focused priority on teaching excellence, supported by scholarship and service, the College of Business prepares students for success in business and society and contributes to the advancement of the educational and economic development of the Northwest Florida region.

College of Education and Professional Studies

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

College of Science, Engineering, and Health

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

University College

University College is committed to the institution-wide delivery of high-impact educational practices that lead to professional readiness.

University Vision, Mission, and Values

UWF's Mission

The University of West Florida (UWF) is a public university based in Northwest Florida with multiple instructional sites and a strong virtual presence. UWF's mission is to provide students with access to high-quality, relevant, and affordable undergraduate and graduate

learning experiences; to transmit, apply, and discover knowledge through teaching, scholarship, research, and public service; and to engage in community partnerships that respond to mutual concerns and opportunities and that advance the economy and quality of life in the region.

UWF is committed to planning and investing strategically to enhance student access and educational attainment; to build on existing strengths and develop distinctive academic and research programs and services that respond to identified regional and state needs; and to support highly qualified faculty and staff who engage students in rigorous, high-impact,[1] student-oriented learning experiences that enhance personal and professional development and empower alumni to contribute responsibly and creatively to a complex 21st Century global society.

UWF's Vision

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

UWF's Values

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

Caring:	Maintaining a safe and dynamic learning and working environment that fosters the development of individual potential.
Collaboration:	Promoting a culture of supportive and cooperative interactions and communication to advance and achieve shared expectations and goals.
Distinctiveness:	Choosing to be different by design.
Inclusiveness:	Welcoming, respecting, and celebrating the ways in which people and ideas are different and the ways in which they are similar.
Innovation:	Exploring, expanding, and enhancing learning and knowledge through transforming experiences.
Integrity:	Doing the right thing for the right reason.
Quality:	Committing to uncompromising excellence.
Relevance:	Adding value to enrich the personal and community lives of stakeholders.
Stewardship:	Managing responsibly the resources entrusted to the University.

Strategic Directions and UWF Priorities

Strategic Direction 1:	Enhanced Student Access, Progression, and Learning and Development
UWF Priority 1.1.	Foster student learning and development to include the knowledge, skills, and dispositions that optimize students' prospects for personal and professional success.
UWF Priority 1.2.	Facilitate students' access to and choice of the University of West Florida to meet their higher education needs.
UWF Priority 1.3.	Improve student persistence and timely progression to degree attainment.

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

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

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

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

Strategic Direction 3: Valued Partnerships: Community Engagement and Service

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

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

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

Strategic Direction 4: Sustainable Institutional Excellence

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

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

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

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

Academic Calendar

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

Academic calendars can be viewed by clicking here (<http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines>).

Governance, Administration and Faculty

In this section:

- Governance and Administration (p. 8)
- Faculty (p. 8)

Governance and Administration

Florida Board of Governors

- **Richard A. Beard III**, Tampa, FL
- **Matthew M. Carter II**, Tallahassee, FL
- **Dean Colson**, Chair, Coral Gables, FL
- **Daniel Doyle, Jr.**, Tampa, FL
- **Patricia Frost**, Miami Beach, FL
- **Morteza "Mori" Hosseini**, Chair, Daytona Beach, FL
- **H. Wayne Huizenga, Jr.**, Delray Beach, FL
- **Thomas G. Kuntz**, Vice Chair, Winter Park, FL
- **Ned C. Lautenbach**, Naples, FL
- **Alan Levine**, Naples, FL
- **Wendy Link**, Palm Beach Gardens, FL
- **Edward Morton**, Naples, FL
- **Pam Stewart**, (Education Commissioner) Tallahassee, FL
- **Norman D. Tripp**, Fort Lauderdale, FL
- **Elizabeth L. Webster**, Weston, FL
- **Katherine Robinson**, Jacksonville, FL (Faculty Senate Representative)
- **Stefano Cavallaro (FSU)**, (Chairman, Florida Student Association)

UWF Board of Trustees

- **Lewis Bear, Jr.**, Chair, Gulf Breeze, FL
- **David E. Cleveland**, Gulf Breeze, FL
- **Pamela Dana**, Destin, FL
- **Robert 'Bob' Jones**, Westville, FL
- **Suzanne Lewis**, Pensacola, FL
- **LuTimothy May**, Pensacola, FL
- **Daniel McBurney**, SGA President, Pensacola, FL
- **Susan O'Connor**, Pensacola, FL
- **Mort O'Sullivan**, Vice Chair, Pensacola, FL
- **Jay S. Patel**, Pensacola, FL
- **Richard Hough**, Faculty Senate President, Pensacola, FL
- **Bentina Terry**, Pensacola, FL
- **Garrett Walton**, Pensacola, FL

Executive Officials

- **Judith A. Bense**, President
- **Martha Saunders**, Provost and Executive Vice President for Academic Affairs
- **Betsy Bowers**, Interim Vice President of Business, Finance, and Facilities

- **Kevin Bailey**, Vice President for Student Affairs
- **Brendan Kelly**, Vice President for University Advancement
- **Michael Huggins**, Dean, College of Science, Engineering, and Health
- **Timothy O'Keefe**, College of Business
- **William Crawley**, Dean, College of Education and Professional Studies
- **Steven Brown**, Dean, College of Arts, Social Sciences, and Humanities
- **Greg Lanier**, Dean, University College
- **Thomas B. Westcott**, Dean, General Education
- **Bob Dugan**, Dean, Libraries

Faculty

Faculty, Administration and Staff

<https://nautical.uwf.edu/people/main.cfm>

Faculty Emeriti

<http://uwf.edu/academic/awards/emeritus/emeritus.cfm>

Undergraduate Catalog

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

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

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

Undergraduate Admissions

In this section:

- Freshmen Admissions (p. 10)
- Transfer Admissions (p. 12)
- International Admissions (p. 14)
- General Readmission (p. 16)
- Appeal of Admission Denial (p. 16)

Freshmen Admissions

The following outlines the general processing of all First Time in College students to the University of West Florida. These procedures are encompassed in UWF Regulation 3.001, approved by the University of West Florida Board of Trustees in June 2012.

General Provisions

- Admission decisions to the University of West Florida (“UWF” or “University”) are made by the University subject to the regulations of the Florida Board of Governors (“BOG”).
- For the purposes of this regulation, “First Time In College” (“FTIC”) students are defined as students who have earned a standard high school diploma from a regionally accredited high school or its equivalent and who have earned fewer than 12 semester hours of transferable college credit, as defined in UWF/REG 3.001(1), since graduating from high school, as evaluated by UWF.
- Undergraduate admission decisions for FTIC students are determined on a selective basis within curricular, space, enrollment and fiscal limitations. Satisfaction of minimum admission requirements does not guarantee acceptance. The selection process may include, but is not limited to, such factors as grades, test scores, pattern of courses completed, class rank, educational objectives, past conduct, academic recommendations, personal recommendations and achievements. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success while enrolled at UWF. Admission to UWF as a FTIC student affords an applicant the ability to enroll as a degree-seeking candidate in pursuit of a baccalaureate degree.
- UWF does not discriminate in the admission process based upon age, color, disability, gender (sex or gender identity), marital status, national origin, race, religion, sexual orientation, or veteran status.

First Time In College Student Admission

The minimum admission requirements expected of FTIC students are established by the Florida Board of Governors and are set forth in BOG Regulation 6.002. Satisfaction of the BOG minimum requirements does not automatically guarantee admission to the University of West Florida.

The BOG minimum admission standards require:

1. A standard diploma from a regionally accredited high school or its equivalent. Applicants with a General Educational Development (“GED”) certificate must refer to sub-paragraph (5). Applicants that are participants in a Home Education or Other Non-Traditional High School Program must refer to sub-paragraph (6). (Students admitted under the Early Admission Program are exempted from this requirement.)
2. For students who entered high school on July 7, 2007, or later, completion of 18 academic units of college-preparatory, year-long courses or equivalents (normally offered in grades nine through 12) are required as follows:
 - a. four (4) units of English – three of which must have included substantial writing requirements;
 - b. four (4) units of mathematics – at the algebra I level and above;
 - c. three (3) units of natural science – two of which must have included substantial laboratory requirements;
 - d. three (3) units of social science – history, civics, political science, economics, sociology, psychology or geography;
 - e. two (2) units of the same foreign language or American Sign Language demonstrating proficiency through the second level; and
 - f. two (2) additional academic elective units from among these five academic areas and other courses approved by the BOG.
3. For students who entered high school prior to July 7, 2007, completion of 18 academic units of college-preparatory, year-long courses or equivalents (normally offered in grades nine through 12) are required as follows:
 - i four (4) units of English- three of which must have included substantial writing requirements;
 - ii three (3) units of mathematics- at the algebra I level and above;
 - iii three (3) units of natural science- two of which must have included substantial laboratory requirements;
 - iv three (3) units of social science – history, civics, political science, economics, sociology, psychology or geography;
 - v two (2) units of the same foreign language or American Sign Language demonstrating proficiency through the second level; and
 - vi three (3) additional academic elective units from among these five academic areas and other courses approved by the BOG.
3. An official SAT Reasoning Test (all three sections) or ACT Plus Writing Test; and
4. High school grades that meet either sub-paragraph a. or b.
 - a. At least a “B” average (3.0 on a 4.0 scale) as computed by UWF in the required high school academic units in English, mathematics, natural science, social science, foreign language and electives; or
 - b. At least a 2.5 grade point average (on a 4.0 scale) as computed by UWF in the required high school academic units in English, mathematics, natural science, social science and foreign language and electives and the following test scores:
 - i SAT – Critical Reading # 460; or ACT – Reading # 19
 - ii SAT – Mathematics # 460; or ACT – Mathematics # 19
 - iii SAT – Writing # 440; or ACT – English/Writing # 18
5. Applicants presenting a GED must present official GED results, official transcripts of any partial high school completion, and ACT Plus Writing and/or SAT Reasoning Test (critical reading, math and writing). In addition to the test score requirements list above in 3. (b), GED applicants must receive a minimum composite score of 21 on the ACT Plus Writing Test, or an overall combined test score of 1450 on the SAT Reasoning Test (critical reading, math and writing).

6. Applicants participating in a Home Education or Non-Traditional High School Program must present a transcript from the Home School Education Program (all units must be listed in Carnegie Units) and a document from their county stating that the applicant meets high school graduation requirements. In addition to the test score requirements list above in 4. (a) and (b), Home Education or Non-Traditional High School Program applicants must receive a minimum composite score of 21 on the ACT Plus Writing Test, or an overall combined test score of 1450 on the SAT Reasoning Test (critical reading, math and writing).

Enrollment Limitations

The admission of FTIC students to UWF shall be in accordance with the University's mission and goals and shall comply with any enrollment limitations established by the BOG or the University.

Limited Access Programs

In addition to the requirements for admission set forth in paragraph two (2) above, applicants seeking admission to limited access programs must meet specific departmental requirements as published in the Undergraduate Catalog. Applicants to a limited access program will receive a decision for general admission to UWF from the Office of Undergraduate Admission and will receive a separate decision for admission to the limited access program from the department.

Restricted Access Programs

Some academic programs require a portfolio review, audition, or some element of pre-qualification prior to admission to the program. Explanations of these requirements are published in the Undergraduate Catalog by program. Applicants to a restricted access program will receive a decision for general admission to UWF from the Office of Undergraduate Admission and will receive a separate decision for admission to the restricted program from the department.

General Application Processing for First Time In College Student Applicants.

- A complete application for admission, including all required documentation and the non-refundable application fee, must be submitted by all students except those who were previously enrolled at UWF in a degree program.
- Applications for admission are accepted as early as 12 months before the requested term of entry. Complete applications must be submitted before the published application deadline date for the term desired. UWF reserves the right to return the application and application fee when the application is received after the published deadline or after any enrollment limit is reached for the requested term of entry. UWF also reserves the right to accept applications for admission after the deadline on a space-available basis.
- Applications for admission are evaluated using a comprehensive review in the Office of Undergraduate Admission. All decisions are communicated in a letter issued to the applicant by the Office of Undergraduate Admissions.
- Admission to UWF is granted for a specific term and to a specific academic program. Students whose major is undeclared at the time of application will be assigned "undecided" as their academic program choice. The specific term of entry and the academic program to which the student is admitted are both stated in the decision letter.
- All official transcripts, test scores, and other credentials must be received directly from the issuing institution or agency. Standardized test scores (SAT, ACT, TOEFL, CPT and PERT) may be considered to be official if they are recorded on an official

high school transcript. It is the applicant's responsibility to request official copies of all required credentials and to assure their receipt by UWF. All documents and credentials submitted become the property of UWF. The originals will not be returned to applicants nor forwarded to a third party.

- UWF reserves the right to request validation of an applicant's test scores (SAT, ACT, TOEFL, CPT, or PERT) prior to making an admission decision if deemed necessary.
 - A final high school transcript showing the graduation date must be submitted as soon as issued to confirm the candidate's eligibility to enroll. UWF reserves the right to rescind an applicant's or student's admission to the University if his or her final transcript demonstrates that he or she no longer meets the standards for admission.
 - An application which contains false, fraudulent or incomplete statements may result in denial of admission, denial of further registration, and/or revocation of degree(s) awarded
 - The University shall evaluate an applicant's previous conduct to determine whether offering the applicant admission is in the best interest of the University. Applicants with a record of previous misconduct at an educational institution or criminal conduct will be evaluated during the admission process in accordance with UWF Regulation 3.003.
 - All FTIC students are required to participate in a New Student Orientation program on the University campus.
 - In accordance with BOG Regulation 6.001(9), and the UWF policy governing immunization requirements, once accepted for admission, each student must submit a signed medical history form and must provide documentation of appropriate immunization, prior to the start of classes.
 - Applicants may request to change their term of entry to a different term. The newly desired term of entry must be within one academic year of the originally requested term of entry provided there is no alternative enrollment at another college or university in the interim. For example, an applicant for the fall 2012 term could change the term of entry to the spring 2013 term or the summer 2013 term but not the fall 2013 term, where one academic year would have elapsed from the original term of entry.
1. All requests for changes of entry dates must submit a Semester Change Request Form and the form must be received before the published application deadline for the new desired term of entry.
 2. A new application and application fee is required for applicants who accumulate additional academic coursework between the original planned term of entry and the desired term of entry.
 3. A new application and fee is required for applicants who wish to be considered for admission for a term that begins more than 12 months after the originally requested term of entry.
 4. Applicants who request to change their term of entry will be reevaluated for admission using the admissions requirements and selection criteria in effect for the new term requested.
 5. Those changing terms of entry who apply to a limited access or restricted program will have their application re-evaluated within the context of the subsequent applicant pool.

Applications and documents submitted by those applicants who are either denied or who do not enroll are retained as inactive files for one year only and are then destroyed.

UWF will provide reasonable substitution of admission requirements for an applicant as long as the absence of the requirement would not constitute a fundamental alteration in the nature of the program

of study to which the applicant sought admission, and the applicant establishes:

1. that he or she is disabled as defined in BOG Regulation 6.018, and
2. that his or her inability to meet the admission requirement is related to the disability.

FTIC student applicants who do not meet the minimum admissions criteria may be considered for admission to the University of West Florida. Such applicants will be evaluated for admission on a case by case basis using a comprehensive review of factors, such as, but not limited to, a combination of test scores and GPA that indicate potential for success, improvement in high school record, family educational background, socioeconomic status, graduation from a low performing high school, graduating from an International Baccalaureate program, geographic location, military service, special talents or abilities, or other special circumstances that contribute to a diverse student body.

Appeal

First time in college student applicants denied admission may appeal this decision in writing to the Office of Undergraduate Admission. This request must contain reasons why reconsideration is warranted and should highlight extenuating circumstances and/or appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for success at UWF. Student-initiated appeals are heard by the Undergraduate Admissions Decision Committee.

Dual Enrollment

Requirements for permission to participate in the Dual Enrollment Program are outlined in the articulation agreements between UWF and the respective school district.

Early Admission

Early Admissions is a type of dual enrollment reserved for high school students entering their senior year. Early Admission will be evaluated on a case by case basis and requirements will vary from county to county. To be considered for Early Admission, students must have completed their junior year of high school and meet all requirements (including, but not limited to, ACT/SAT scores) outlined in the articulation agreement between UWF and the respective school district. If such requirements are not outlined in the articulation agreement, Early Admits must have a minimum total score of at least a 1450 on the SAT Reasoning Test (critical reading, math and writing) or a minimum composite score of at least a 21 on the ACT Plus Writing Test and a letter of recommendation from their high school principal to be considered. Registration for the Fall semester following their initial entrance semester will be contingent upon receiving proof of high school graduation.

Transfer Admissions

The following outlines the general processing of all Transfer students to the University of West Florida. These procedures are encompassed in UWF Regulation 3.032, approved by the University of West Florida Board of Trustees in June 2012. Until this approval, transfer student admission practices had been contained within the FTIC admission protocol. In June 2012, these procedures were developed into their own regulation.

General Provisions

- Admission decisions to the University of West Florida (“UWF” or “University”) are made by the University subject to the regulations of the Florida Board of Governors (“BOG”).
- “Transfer” applicants are those applicants who, prior to admission to UWF, have earned 12 or more semester hours of transferable college credit, as defined in this regulation, since graduating from high school, as evaluated by the Office of Undergraduate Admissions.
 - a. Transfer applicants with fewer than 60 semester hours of transferable college credit must meet the transfer admission requirements set forth below under Transfer Student Admission, and these applicants must also meet the First Time In College (“FTIC”) student admission requirements located in UWF Regulation 3.001.
 - b. Transfer applicants with 60 or more semester hours of transferable college credits must meet the transfer admission requirements set forth below under Transfer Student Admission.
- Undergraduate admission decisions for transfer students are determined on a selective basis within curricular, space, enrollment and fiscal limitations. Satisfaction of minimum admission requirements does not guarantee acceptance. The selection process may include, but is not limited to, such factors as grades, test scores, pattern of courses completed, class rank, educational objectives, past conduct, academic recommendations, personal recommendations and achievements. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success while enrolled at UWF.
- UWF does not discriminate in the admission process based upon age, color, disability, gender (sex or gender identity), marital status, national origin, race, religion, sexual orientation nor veteran status.

Transfer Student Admission

The minimum admission requirements expected of transfer students are established by and are set forth in BOG Regulation 6.004. Satisfaction of the BOG minimum requirements does not automatically guarantee admission to the University of West Florida. The BOG regulation requires the transfer applicant to:

- Be in good standing and eligible to return to the last post-secondary institution attended as a degree-seeking student;
- Have a cumulative 2.0 Grade Point Average (“GPA”) on a 4.0 system. The GPA is calculated using all transferable post-secondary credits;
- Satisfy the minimum admission requirements for entering FTIC students (See UWF Regulation 3.001) if transferring with fewer than 60 semester hours; and
- Demonstrate proficiency to the second level of the same foreign language (or American Sign Language) taken either in high school or at the undergraduate institution(s) attended previously.
 - a. Transfer students not meeting the foreign language requirement may be admitted; however, if admitted, such students are required to complete the foreign language requirement prior to UWF graduation.
 - b. Transfer students who received an Associate of Arts (“AA”) degree from a Florida public community college, college, or

university prior to September 1, 1989 are exempt from this requirement.

Enrollment Limitations

The admission of transfer students to UWF shall be in accordance with the University's mission and goals and shall comply with any enrollment limitations established by the BOG or the University.

Limited Access Programs

- In addition to the requirements for admission set forth in Transfer Student Admission above, applicants seeking admission to limited access programs must meet specific departmental requirements as published in the Undergraduate Catalog. Applicants to a limited access program will receive a decision for general admission to UWF from the Office of Undergraduate Admission and will receive a separate decision for admission to the limited access program from the department.
- The admissions criteria and procedures for limited access programs at UWF provide equal access to AA degree holders from Florida College System institutions, AA degree transfers from other Florida State University System institutions, and UWF students of equivalent status.

Restricted Access Programs

Some academic programs require a portfolio review, audition, or some element of prequalification prior to admission to the program. Explanations of these requirements are published in the Undergraduate Catalog by program. Applicants to a restricted access program will receive a decision for general admission to UWF from the Office of Undergraduate Admission and will receive a separate decision for admission to the restricted program from the department.

General Application Processing for Transfer Student Applicants

- A complete application for admission, including all required documentation and the non-refundable application fee, must be submitted by all students except those who were previously enrolled at UWF in a degree program.
- Applications for admission are accepted as early as 12 months before the requested term of entry. Complete applications must be submitted before the published application deadline date for the term desired. UWF reserves the right to return the application and application fee when the application is received after the published deadline or after any enrollment limit is reached for the requested term of entry. UWF also reserves the right to accept applications for admission after the deadline on a space-available basis.
- Applications for admission are evaluated using a comprehensive review in the Office of Undergraduate Admission. All decisions are communicated in a letter issued to the applicant by the Office of Undergraduate Admission.
- Admission to UWF is granted for a specific term and to a specific academic program. Depending upon the number of credits already earned, a student may be required to declare a specific academic program at the time of application. The specific term of entry and the academic program to which the student is admitted are both stated in the decision letter.
- All official transcripts, test scores, and other credentials must be received directly from the issuing institution or agency. Standardized test scores (SAT, ACT, TOEFL, CPT and PERT)

may be considered to be official if they are recorded on an official high school transcript. It is the applicant's responsibility to request official copies of all required credentials and to assure their receipt by UWF. All documents and credentials submitted become the property of UWF. The originals will not be returned to applicants or forwarded to a third party.

- UWF reserves the right to request validation of an applicant's test scores (SAT, ACT, TOEFL, CPT, or PERT) prior to making an admission decision if deemed necessary.
- UWF reserves the right to rescind an applicant's or student's admission to the University if, upon review, his or her final transcript(s) demonstrates that he or she no longer meets the standards for admission.
- An application which contains false, fraudulent or incomplete statements may result in denial of admission, denial of further registration and/or revocation of degree(s) awarded.
- The University shall evaluate an applicant's previous conduct to determine whether offering the applicant admission is in the best interest of the University. Applicants with a record of previous misconduct at an educational institution or criminal conduct will be evaluated during the admission process in accordance with UWF Regulation 3.003.
- In accordance with BOG Regulation 6.001(9), and the UWF policy governing immunization requirements, once accepted for admission at UWF, each student must submit a signed medical history form and must provide documentation of appropriate immunization, prior to the start of classes
- Applicants may request to change their semester of entry to a different semester. The newly desired semester of entry must be within one academic year of the semester originally requested on their application provided there is no alternative enrollment at another college or university in the interim. For example, an applicant for the fall 2014 semester could change the semester of entry to the spring 2015 semester or the summer 2015 semester, but not the fall 2015 semester.
 - a. All applicants who wish to change their entry semester must submit a "Request to Change Semester" Form. The form must be received before the published application deadline for the new desired semester of entry.
 - b. A new application and application fee is required for applicants who accumulate additional academic coursework between the original semester of entry and the desired semester of entry.
 - c. A new application and fee is required for applicants who wish to be considered for admission for a semester that begins more than 12 months after the originally requested semester of entry.
 - d. Applicants who request to change their semester of entry will be re-evaluated for admission using the admissions requirements and selection criteria in effect for the new semester requested.
 - e. Those changing semesters of entry who apply to a limited access or restricted program will have their application re-evaluated within the context of the subsequent applicant pool.

Applications and documents submitted by those applicants who are either denied or who do not enroll are retained as inactive files for one year only and are then destroyed.

UWF will provide reasonable substitution of admission requirements for an applicant as long as the absence of the requirement would not constitute a fundamental alteration in the nature of the program of

study to which the applicant seeks admission, as long as the applicant establishes:

1. that he or she is disabled as defined in BOG Regulation 6.018, and
2. that his or her inability to meet the admission requirement is related to the disability.

Within curricular, space, enrollment and fiscal limitations, admission as a junior to the upper division of the University will be granted to any applicant with an AA degree from a Florida public, postsecondary institution who has not enrolled in a degree seeking program at any other educational institution since his or her AA degree was conferred. The admission of such transfer students is governed by BOG Regulation 6.004 and any applicable articulation agreement.

Transfer student applicants who do not meet the minimum admissions criteria may be considered for admission to the University of West Florida. Such applicants will be evaluated for admission on an individual basis using a comprehensive review of factors, such as, but not limited to, a combination of test scores and GPA that indicate potential for success, family educational background, socioeconomic status, geographic location, military service, special talents or abilities, or other special circumstances which contribute to a diverse student body.

Appeal

Undergraduate transfer applicants denied admission may appeal this decision in writing to the Office of Undergraduate Admission. This request must contain reasons why reconsideration is warranted and should highlight extenuating circumstances and/or appropriate alternative evidence of academic achievement, ability, motivation and responsibility that indicates potential for success at UWF. Student-initiated appeals are heard by the Admission Decision Committee.

Undergraduate Transfer Credit Processing

- The receipt and evaluation of transfer credits is the responsibility of the Office of Undergraduate Admissions. In addition, the Office of Undergraduate Admissions evaluates General Education, Gordon Rule, and multicultural course requirements necessary for graduation. The department chairperson for the program to which an applicant applies has ultimate authority in determining which courses are applicable to award the requirements for that degree at UWF. Appeals for reconsideration of transfer credit evaluations must be directed to the Office of Undergraduate Admissions. In many instances, exact course equivalents are determined after consultation with the departments.
- UWF will only accept transfer credits from those institutions that were 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 specific degree program, departments may specify that transfer credits must be earned at an institution accredited by a specific accrediting agency.
- All satisfactorily completed courses from a regionally or nationally accredited Florida postsecondary institution that participates in Florida's Statewide Course numbering system ("SCNS") and which bear the same SCNS course prefix and last three digits as a UWF course will automatically be transferred pursuant to the Florida Statewide Articulation Agreement. If the course is not part of SCNS, courses may transfer after consultation with the appropriate academic departments. Factors that may be considered in making determinations for transfer of credit and for course equivalents include, but are not limited to, course description, course student learning outcomes, course syllabi, course text and other learning

materials, qualifications of the course instructor, accredited status of the institution originally awarding credit, time elapsed since the course was completed, and student grades in courses taken at UWF. Applicability of such credits to a degree program will be by the department for which the student is admitted at the time of the student's admission to the University or readmission in the event the student does not maintain continuous enrollment.

- Applicants with credits from institutions that are not accredited by a regional or national accrediting agency may petition the Office of the Admission for a re-evaluation of the credits earned at such institutions for inclusion in their UWF academic record. In order to be eligible to petition, these applicants must have earned a minimum of 20 credits at UWF with a cumulative UWF GPA of at least 2.0.
- UWF reserves the right to evaluate specific courses and deny transfer credit. Courses that are remedial, occupational or vocational in nature are not accepted for transfer credit.
- Applicants who have earned an AA degree from a Florida public higher education institution are automatically awarded 60 semester credit hours. Credits of all other AA degree transfer applicants will be evaluated on a course-by-course basis.
- Transfer credit will not be awarded for tests taken for the purpose of earning a GED credential.
- Service school courses will be evaluated with reference to the recommendations of the American Council of Education when official credentials have been presented. Such recommendation, however, is not binding upon the University.
- A maximum of 60 semester hours of nontraditional credit (military service credits, AP, IB, AICE, DANES, and CLEP) can be applied to the students record. No more than 30 credits of any one type of credit can be applied. For those credits awarded by examination, official score reports from the testing agencies may be required.
- GPAs for the purpose of admission are computed based on grades earned in courses that are acceptable for transfer credit.
- Grades earned in transferred courses are not computed in the student's UWF GPA except for the purposes of admission to limited access programs, awarding of honors at graduation, and class ranking of baccalaureate students.

International Undergraduate Admissions

Applicants to the University are considered international if they are not U.S. Citizens, hold dual citizenship between the U.S. and another country, or are permanent residents currently residing in the U.S. In addition to the policies and procedures stated for the different categories of admission, the following information pertains to international applicants. Domestic applicants should refer to the "Freshman Admissions" or "Transfer Admissions" sections.

The following outlines the general processing of all International students to the University of West Florida. These procedures are encompassed in UWF Regulation 3.042, approved by the University of West Florida Board of Trustees in March 2012.

International Student Office (ISO)

1. Admission of international students to the University of West Florida ("UWF" or "University") is governed by University of West Florida admission regulations 3.001, 3.002, 3.004, 3.032, 3.033 and 3.042, Florida Board of Governors (BOG) Regulations 6.001, 6.002, 6.003, 6.004, and 6.009, and the requirements herein.

2. For purposes of this regulation applicants to the University of West Florida will be considered "International" students if they are not U.S. citizens and if they require a visa to remain in the United States. Applicants who are permanent residents of the United States are not considered international students.
3. The admission requirements stated in the Board of Governors and UWF regulations are minimum requirements. Satisfaction of minimum requirements does not guarantee admission into the University. Preference for admission in any term will be given to those applicants whose credentials indicate the greatest promise of academic success.
4. Applicants must meet the following criteria and submit the required documentation to receive consideration for admission to the University:
 - A degree seeking applicant (undergraduate and graduate) whose native language is not English must provide evidence of English language proficiency. Non-degree undergraduate students are not required to provide documentation of English proficiency unless they are attending UWF under an international exchange agreement which requires the student to document English proficiency. The English requirement (proficiency in written and spoken English) may be fulfilled by establishing one of the following:
 1. That he or she is from a country where English is the official language; or
 2. That his or her prior associate's, bachelor's, master's, or doctoral degree was earned from a regionally accredited college or university in the United States; or
 3. That his or her prior bachelor's, master's, or doctoral degree was earned from a country where English is the official language, or from a university at which English is the official language of instruction; or
 4. That he or she completed his or her junior and senior year in a U.S. high school with a SAT Verbal score of 550 or a ACT English score of 23; or
 5. That he or she achieved a qualifying score on the Test of English as a Foreign Language (TOEFL), International English Language Testing System (IELTS) or Michigan English Language Assessment Battery (MELAB)/ Michigan English Language Institute College English Test (MELICET).
 - Qualifying scores for undergraduate applicants are either a TOEFL computer-based score of 213, a TOEFL internet-based score of 78/80, a TOEFL paper-based score of 550, an IELTS score of 5.5/6, or a MELAB/MELICET score of 76/77. (Consult the Undergraduate Catalog for sub-score requirements and for specific program requirements, which may be higher.)
1. Undergraduate applicants must have a 2.5 GPA on a 4.0 scale as calculated by UWF Office of Undergraduate Admissions.
2. Applicants must submit transcripts evidencing all prior academic course work including post-secondary education. The University requires an official copy of all academic credentials. Transcripts that are not in English must be accompanied by a certified English translation. Transcripts from educational institutions outside the United States must be evaluated by a credential evaluation service, as specified on the international application. (All academic credentials become property of the University. They will not be returned or forwarded to a third party. Credentials of applicants who do not enroll within one year will be destroyed).
3. Applicants must submit a non-refundable application fee payable in U.S. dollars.
4. Applicants must complete and submit the following medical information:
 - a. a Physician's Evaluation Form and a Medical History Form completed by a physician, indicating the applicant's fitness, mentally and physically to pursue a college level study program.
 - b. Documentation of MMR (measles, mumps and rubella) immunization, and
 - c. Proof of immunization for meningitis and hepatitis B, or a signed waiver indicating the applicant's informed decision not to be vaccinated.
5. Applicants must provide proof of medical insurance that complies with the requirement of University policy, AC-6.00- 08/08 "Medical Insurance Coverage for Enrolled International Students" for all applicants on F-1 or J-1 visas.
6. Applicants must provide a Certification of Finances before the Certificate of Eligibility (Form I-20 or a DS-2019) will be issued by the University. The Certificate of Finances will show specific sources of a satisfactory level of financial support and the amount expected from each source. Funding sources must be verified by the student's or sponsor's bank by submitting an original bank statement from the student's or sponsor's financial institution. The total funds available to the student for the first academic year must at least equal the total estimates of institutional costs and living expenses. For applicants living outside the U.S., the Declaration and Certification of Finances must be received by the University no later than the application deadline each semester.
7. For transfer students: A completed transfer clearance form is required for F-1 applicants to verify their eligibility to transfer in F-1 status.
8. Undergraduate applicants who have provided all required materials and who meet all admission requirements except the English proficiency requirement may be considered for Conditional Admission to the University. Undergraduate students who receive a Conditional Admission letter who desire to attend UWF must enroll in the Intensive English Program at UWF. If such students seek to enroll in a degree program, they must meet the requirements set forth in paragraph (4) iv., above.
9. Undergraduate applicants who have provided all required materials and who meet all admission requirements except the English proficiency requirement may be considered for Conditional Admission to the University. Undergraduate students who receive a Conditional Admission letter who desire to attend UWF must enroll in the Intensive English Program at UWF. If such students seek to enroll in a degree program, they must meet the requirements set forth above.
10. Applicants will not be considered for admission until the University has received all required materials. Undergraduate international student applications, along with all other records required for admission must be received by the program deadline or university international application deadline, whichever is earlier, unless the deadline is waived by the University in writing.

General Readmission

Readmission to Baccalaureate Programs

Undergraduate students not in attendance at UWF for three or more consecutive academic semesters (including summer semester) must complete the "Application for Readmission" and provide any required documentation amassed during the absence. The Application for Readmission must be filed according to admissions deadlines. The Application for Readmission does not include an application fee. Readmitted students will have their official Catalog year automatically updated for the new term of entry. Undergraduates can use the readmission application to change their major upon readmission only if their UWF grade point average is 2.0 or above.

Degree-seeking students file the readmission application online using the Office of Undergraduate Admissions website: uwf.edu/admissions. Official transcripts from each college or university attended during the absence to the previous enrollment at UWF must be submitted to the Office of Undergraduate Admissions before the first day of classes of the semester for which the student has been readmitted. If a student is currently enrolled at another institution, the final transcript must be submitted when the term has ended. A hold will be placed on the account preventing the student from registering for future semesters until all transcripts are received.

Readmission is not automatic (see Academic Suspension and Reinstatement). Suspended students must be reinstated by the college of their former major before readmission can be completed. Students who subsequently earn an associate of arts degree (A.A.) at another Florida public institution should refer to the A.A. Forgiveness policy section.

Appeal of Admission Denial

Denial of Undergraduate Admission to the University

Undergraduate applicants who are denied admission to the University may appeal the admission decision. Appeals are encouraged if an applicant believes the decision was inequitable because of some extenuating circumstance or revealed data that is now available for consideration. Applicants are requested to consult the Appeal procedures spelled out in the "Freshman Admissions" and "Transfer Admissions" sections for the procedures that were accepted by the University of West Florida Board of Trustees in June 2011.

Denial of Admission to Limited Access Bachelor's Degree Programs

Applicants who have been denied admission to a limited access bachelor's degree program at the University may appeal, in writing, to the appropriate college dean by the first day of classes of the semester for which admission was requested.

After Admission

Apply for Financial Aid

Refer to information on Financial Aid (p. 52).

Apply for Housing

Refer to information on Housing (<http://uwf.edu/housing>).

Apply for Military and Veterans Benefits

Refer to information on Military and Veterans Benefits (p. 54).

Mandatory Immunization Health History Form

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

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

Please follow the guidelines below for completing the Mandatory Immunization Health History Form:

1. The form must include the Full Legal Name of the student, Date of Birth, UWF Student ID number, and a Contact Phone number.
2. The form includes a Medical Treatment Consent section that must be signed by the student and dated.
3. The form includes a Required Immunization section that must be completed and signed and stamped by a healthcare provider.
4. The form includes an Exception/Waiver section that must be completed, including a student signature and date, if the student is applying for an MMR exception and/or Hepatitis B or Meningococcal Meningitis immunization waiver.
5. If the student is under the age of eighteen (18), the form must also be signed appropriately by a parent or legal guardian (Medical Treatment Consent section and Exception/Waiver section [if applicable])

Immunization Requirements

Measles, Mumps, and Rubella (MMR)

- **All students born after December 31, 1956 must present documented proof of immunity to Rubeola (also known as measles, red measles, or ten-day measles) and German Measles (Rubella),** in one of the two ways described below:
1. Documentation of immunization with TWO (2) doses of MMR live virus vaccine on or after the first birthday. Persons vaccinated with killed or an unknown vaccine prior to 1968 must be revaccinated. The two MMR vaccines must be at least 28 days apart.
 2. Laboratory (serologic) evidence of rubeola and rubella immunity (i.e., titer).

NOTE: If you are exempt from the MMR requirement due to being born on or before December 31, 1956, that does not exempt you from the Hepatitis B and Meningitis requirements described below.

Hepatitis B and Meningococcal Meningitis

- All UWF students must provide documentation of immunizations against Hepatitis B and Meningococcal Meningitis or sign and date a statement in the **Exceptions/Waivers** section of the Mandatory Immunization Health History Form indicating he/she has been made aware of the potential fatal nature of the disease(s) and chooses not to be immunized. This information can be found on the Centers for Disease Control and Prevention internet links provided.
- Any new matriculating minor student (under 18) must provide signed parental/guardian consent to opt out of immunization from either of these diseases.

Immunization Exceptions/Waivers

Students may apply for an exception to the immunization requirement for MMR if they meet one of the following four criteria, complete the Exception/Waiver section of the Mandatory Immunization Health History Form, and submit the appropriate documentation as outlined below:

1. **Medical Basis:** The student must provide a letter from a healthcare provider, signed on official medical office stationery and including the official stamp from the office, stating the medical reason(s) why the student is not able to receive the vaccine(s), and indicating if this is a temporary or permanent condition.
2. **Religious Basis:** The student (or the student's parent/guardian if under 18 years old) must provide a signed letter stating that the student's religious beliefs do not permit him/her to receive vaccinations.
3. **Active Duty Military:** Active duty military personnel may complete the appropriate waiver section(s) of the Mandatory Immunization Health History Form (<http://uwf.edu/media/university-of-west-florida/offices/student-affairs/student-health-services/UWF-MIHH---Electronic.pdf>) if documentation of immunization is unavailable at the time of registration. To qualify for this exception, the individual must submit a signed supervisor's statement attesting to their current active duty military status.
4. **Online Students:** Online-only students are not required to submit proof of immunizations or a physician's signature.

Students may apply for a waiver to the immunization requirement for **Hepatitis B** and/or **Meningococcal Meningitis** by following the directions below:

1. **Hepatitis B Vaccine** – Students wishing to decline this vaccine must read the CDC's Hepatitis B Vaccine Information Statement (<http://www.cdc.gov/vaccines/hcp/vis/vis-statements/hep-b.html>) found on the SHS website or internet link provided on the Mandatory Immunization Health History Form online, then check where indicated on the Mandatory Immunization Health History Form (<http://uwf.edu/media/university-of-west-florida/offices/student-affairs/student-health-services/UWF-MIHH---Electronic.pdf>). Signing the waiver indicates you understand the possible risk in not receiving this vaccine.
2. **Meningococcal Meningitis Vaccine** – Students wishing to decline this vaccine must read the CDC's Meningococcal Vaccine Information Statement (<http://www.cdc.gov/vaccines/hcp/vis/vis-statements/mening.html>) found on the SHS website or internet link provided on the Mandatory Immunization Health History Form online, then check where indicated on the Mandatory Immunization Health History Form (<http://uwf.edu/media/university-of-west-florida/offices/student-affairs/student-health-services/UWF-MIHH---Electronic.pdf>).

Electronic.pdf). Signing the waiver indicates you understand the possible risk in not receiving this vaccine. If you are under 18 and wish to decline this vaccine, a parent or guardian must sign for you.

Submission of Documentation

Return the completed Mandatory Immunization Health History Form to Student Health Services (SHS) via:

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

MyUWF

New students may check their admission status through MyUWF 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 (<http://catalog.uwf.edu/graduate/academicpolicies/registration>). A Registration Guide (<https://confluence.uwf.edu/display/public/Student+Registration+Checklist>) to assist with the registration is also housed on the Office of the Registrar website.

Obtain Nautilus Card

All Pensacola campus students are required to purchase a Nautilus Card. Refer to information on Tuition and Fees (<http://catalog.uwf.edu/graduate/tuitionandfees>).

Obtain Parking Permit

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

Confirm Residency for Tuition Purposes

Refer to information on Residency (<http://catalog.uwf.edu/graduate/residencyfortuitionpurposes>).

Pay Tuition and Fees

Refer to information on Tuition and Fees (<http://catalog.uwf.edu/graduate/tuitionandfees>).

Review Student Rights and Responsibilities

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

Student Code of Conduct

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

Grievance

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

Prohibition of Harassment

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

Use of Instructional Space and Resources

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

New Student Orientation - Freshman and Transfer Students

The Division of Student Affairs, in collaboration with the Division of Enrollment Affairs, the First Year Advising Center, and various other units of the University provide orientation programs for all new students and their parents or legal guardians. New students entering UWF classified as freshmen, first-time-in college, or transfer are **required** to attend an orientation prior to registering for classes their first semester. Exceptions to the orientation requirement include; active duty military, non-degree seeking students, and students accepted into the Online Only Programs.

Student orientation programs for freshman students entering in the Fall are scheduled throughout the Summer and feature a two-day agenda including academic advising, information on important policies and procedures, and community building activities and events. Freshman students attending the two-day Fall orientation program are required to stay overnight in the residence halls. An abbreviated orientation is offered in December, January, May and June for first year students entering in Spring and Summer terms respectively.

Transfer transition programs are offered in February, March, May, June, September and October for face to face sessions and throughout the year for transfer students choosing to complete the Online Orientation option. All new students entering the University will receive information about New Student Orientation through their MyUWF (<https://my.uwf.edu>) account under the "*Orientation Registration for Undergraduate Student*" app. Contact the Office of Student Transition Programs at (850) 473-7229 for more information or visit uwf.edu/orientation.

Academic Advising

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

The First Year Advising Center provides advising for General Education requirements to freshman students. The Center also provides a system which alerts freshmen to potential academic problems.

All degree-seeking sophomore, junior, and senior students are assigned advisors by the department housing the program in which the student is majoring. Sophomore, junior, and senior students should check their SASS audit and contact their major department to obtain the name of their academic advisor.

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

Undergraduate Academic Policies

In this section:

- General Policies (p. 20)
- Registration Policies and Procedures (p. 27)
- Grades and Academic Credit Policies (p. 32)
- Graduation and General Degree Requirements (p. 36)

General Policies

The Office of the Registrar (<http://uwf.edu/registrar>) maintains the official academic records of all students and course registrations for currently enrolled students. Students are encouraged to contact the Registrar's Office with questions concerning academic policies and procedures of their current registration, enrollment, or academic records. Registration dates are published in the Academic Calendar (p. 7).

Progress to Degree

The University of West Florida's mission is to provide students with access to high-quality, relevant, and affordable learning experiences from enrollment through graduation. This policy is intended to assist full-time students in maintaining satisfactory academic progress and in completing a degree program quickly and efficiently.

University Responsibilities

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

The academic advisors in the College of Arts, Social Sciences and Humanities, College of Business, College of Education and Professional Studies, College of Science, Engineering and Health, and University College 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.

Student Technology and Electronic Mail Requirement

UWF prepares students for current and future business and life applications using basic technology. Each UWF student is expected to do the following:

- Activate a UWF ArgoNet account
- Access the MyUWF (<https://my.uwf.edu>) web portal a minimum of 2-3 times a week
- Access UWF e-mail account (UWF Gmail) daily
- Have basic word-processing knowledge

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

MyUWF

MyUWF (<https://my.uwf.edu>) 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 the account balance, view grades, and more through MyUWF (<https://my.uwf.edu>). Upon enrollment (once a student is registered in a class), each UWF student automatically receives an ArgoNet account. To access MyUWF (<https://my.uwf.edu>), students must activate their "new user" ArgoNet account from the login screen. Students manage their ArgoNet account and services from My Account in MyUWF (<https://my.uwf.edu>). Students are responsible for information and actions taken through MyUWF (<https://my.uwf.edu>) and should not share their password or account information.

Deadline Dates/Academic Calendar

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

Enrollment Definition

Enrollment is defined as consisting of three major components:

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

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

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

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

Classification of Students

The classification of a degree-seeking student is based upon the number of semester hours earned. The classifications are the following five:

Year	Hours
Freshman	0-29 semester hours
Sophomore	30-59 semester hours
Junior	60-89 semester hours
Senior	90 semester hours or more including a minimum of 20 semester hours of course work at the 3000/4000 level
Non-Degree Student	A student who currently is not a candidate for a degree

Upper Division Status

The following criteria must be completed to achieve upper-division status: admission to the University, 60 semester hours of academic credits, declaration of a major, General Education requirements, Gordon Rule requirements, and foreign language requirement.

Non-Degree Seeking Status

The non-degree classification is used only by those students who will not be working toward a degree at UWF. Non-degree students are not assigned an academic advisor. Successful completion of courses in this classification does not provide a basis for admission to degree status. Non-degree students are expected to have the appropriate academic background to complete college level course work. Returning non-degree students must file a new non-degree student application in the Office of Undergraduate Admissions. The non-degree student registration period begins approximately two weeks prior to the first day of classes for the semester; see the Academic Calendar (p. 7) for specific dates.

Course work completed as a non-degree student will be included in the undergraduate UWF GPA, as determined by the level of the course. If a non-degree student becomes admitted as degree-seeking, *all* non-degree courses will be included in both the student's GPA and degree audit (where applicable). However, departments do have the option to exclude non-degree courses from a student's degree audit. To be considered for degree status, students must contact the Office of Undergraduate Admissions (<http://uwf.edu/admissions>) and complete the required application. Once a student is granted undergraduate degree-seeking status, change to non-degree status is not permitted until the baccalaureate degree is earned.

Non-degree students are subject to the student policies stated in the catalog and *Student Handbook and Planner*. Non-degree students should review the Student Educational Records section to understand privacy information. International students in F-1 status should consult with the Director of the International Student Office regarding enrollment as a Non-Degree Student.

All Pensacola campus students are required to purchase a Nautilus Card. Parking a vehicle on campus requires a parking decal which may

be purchased online through Parking Services. Compliance with the immunization policy (<http://uwf.edu/offices/student-health-services/immunizations/uwf-online-immunization-form>) is required prior to registration.

Kugelman Honors Program

The UWF Honors Program offers unique living and learning opportunities for students in all majors. In addition to their regular coursework, Kugelman Honors scholars enroll in special interdisciplinary seminars led by the university's most accomplished faculty. Honors scholars also undertake a rigorous thesis project in which they explore a topic of lasting scholarly significance while working closely with a faculty advisor.

Benefits for participation in the program include early registration, small classes (average of 15 students), the option to live in Honors campus housing, admission to the Honors Seminar Series, social and cultural activities, opportunities for study abroad, scholarship opportunities, annotation on the UWF transcript of graduating as a Kugelman Honors Scholar, participation in the Honors Commencement Ceremony, and individual recognition during UWF's Commencement exercises. Most importantly, Kugelman Honors scholars are part of the University's most vibrant living and learning community that fosters lifelong friendships and intellectual camaraderie among students and faculty alike. Admission to the Kugelman Honors Program is highly competitive. Students must submit an Honors Program Application and a letter of recommendation.

To qualify, applicants must meet both of the following entrance requirements:

1. Rank in the top 10 percent of their high school graduating class or a cumulative high school GPA of 3.5 or higher
2. An ACT composite score of 26 or higher or have a combined score of 1770 or higher on the SAT

For more information, email honors@uwf.edu (Honors@uwf.edu).

Dual Enrollment Registration (High School and University Credit)

See Freshman Admissions (p. 10) section.

Academic Standing

Good Academic Standing

Undergraduate students are expected to maintain a 2.00 or higher cumulative UWF GPA. Students are in good standing if they meet the minimum GPA standards based on GPA hours.

GPA Standard

- 0-15.99 GPA Hours = 1.60
- 16 – 29.99 GPA Hours = 1.8
- 30.00 or more GPA Hours = 2.0

Students on probation or suspension are not considered to be in good academic standing.

Academic Warning

Applies to only to students who have less than 30 sh (GPA hours) whose UWF cumulative GPA is within the range listed below. Academic warning is considered a good standing status as the student is not on probation. This status is a warning applied to students early in their academic career that academic improvement is needed.

- 0 – 14.99 GPA Hours – 1.60 – 1.99
- 15 – 29.99 GPA Hours – 1.80

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. Students whose cumulative UWF grade point average (GPA) is below the minimum listed will be placed on academic probation by the student's college.

- 0-15 GPA Hours - below 1.60 cumulative UWF GPA
- 16-30 GPA Hours - below 1.80 cumulative UWF GPA
- 30 or more GPA Hour - below 2.00 cumulative UWF GPA

Students who are on probation are limited to 14 semester hours for registration to assist with academic success. Overrides may be granted by the academic advisor for extenuating circumstances. Students who are on probation, and make sufficient academic progress during the term of probation, may be continued on probation. Generally, students who achieve a semester UWF GPA of 2.30 or higher are considered making sufficient academic progress. Colleges may impose additional requirements to determine academic progress and have the right to suspend a student whose cumulative GPA is not at the minimum standard.

In addition to satisfying the GPA requirements set forth by the University, students are also responsible for observing the additional academic standards specified by their department or college. Students on probation may apply for a change of major; however, approval is granted by the chairperson of the prospective department. Students should contact the chairperson for guidance.

Academic Suspension

Normally, students are not placed on academic suspension without first being placed on probation for at least one semester. Students who do not achieve the minimum cumulative UWF GPA listed below, during the semester of probation will be suspended.

- 0-15 GPA Hours - 1.60 cumulative UWF GPA
- 16-30 GPA Hours - 1.80 cumulative UWF GPA
- 30 or more GPA Hour - 2.00 cumulative UWF GPA

The College may make exceptions and continue a student on probation as determined by the student's individual circumstances, and potential for academic success. Exceptions are made by the College are sent to the Office of the Registrar within three days of initial action review.

Students under academic suspension are not eligible to register at UWF. See the Reinstatement process below.

Students suspended from UWF who subsequently receive an A.A. degree from a Florida public college or state university may be readmitted to UWF upon application for readmission, with earned credit accepted in accordance with University's policies. See A.A. Degree Forgiveness Policy in the Grades and Academic Credit Policies (p. 32) section.

Reinstatement

Students placed on academic suspension may request reinstatement after being away from the University one semester. The request for reinstatement must be directed to the dean of the college that suspended the student at least two weeks in advance of the first day of classes of the semester for which reinstatement is requested. In addition, students not attending UWF the previous three

semesters must file an application for readmission with the Office of Undergraduate Admissions. Students reinstated from suspension may apply for a change of major. Approval is granted by the chairperson of the prospective department.

Students who are reinstated are considered on probation and the rules for probation status apply.

Non-Degree Students

Non-degree students are subject to the same academic standards and review procedures as students admitted to degree programs based on the level of the student.

Accelerated Bachelor's to Master's Programs

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

Change of Major or Area of Specialization

GPA Requirement/Academic Standing: A minimum 2.00 UWF GPA is required to change/declare majors, double majors, and dual degrees. Major approval, based on GPA and department requirements, is determined by the department offering the new major. Students on probation and students returning from suspension may request a change of major; however, approval of the change of major is granted by the Chairperson or Dean of the prospective department. Students should contact the department offering the new major for guidance and review.

Undergraduate students, including lower-division students, must submit a Change of Major Form (http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Change-of-Major-Form_Signature.pdf) request to the Office of the Registrar to enter a different major. Change of majors should be submitted prior to the end of drop/add for the major to be applicable to that semester. The following student types are excluded from the Change of Major deadline: student athletes, veterans receiving benefits and students who have applied for graduation. Program approval is determined by the advisor of the department offering the new program. Students who change majors have a choice of meeting the major degree requirements listed in the University's catalog that are in effect at the time of the student's change of major or at graduation. Students should be aware of admission requirements for limited access and restricted programs. Students should contact the academic advisor of the prospective program for guidance.

Double Major and Dual Degree

For information on double majors and dual degrees, please see Graduation and General Degree Requirements (p. 36)

Minors

A minimum 2.0 UWF GPA is required to change/declare minors. Minor approval, based on GPA and department requirements, is determined by the department offering the new minor.

A student may declare/change a minor by submitting the Change of Major Form (http://catalog.uwf.edu/undergraduate/academicpolicies/general/Change_of_Major_Form_Signature.pdf), with the Minor Declaration portion completed. Students seeking a minor must be currently enrolled in an undergraduate major. Undergraduate students may qualify for a minor by meeting specific departmental and/or college requirements. Specific requirements for the minor will be those listed in the academic programs section catalog that is in effect at the time the minor is declared. Students should consult the minor department for questions concerning course requirements. A minimum of 12 semester hours of upper-division work must be completed in the minor, of which nine semester hours must be courses taken at UWF. Students must have a minimum GPA of 2.00 in all UWF courses used in the minor.

Neither diplomas nor certificates are issued for completion of the minor. Minors are awarded in conjunction with the receipt of a baccalaureate degree and are recorded only on the academic transcript.

Forms related to graduation, as well as other important information related to the graduation process are found in the Graduation Guide (<http://uwf.edu/offices/registrar/graduation-guide/apply-to-graduate>) section of the Office of the Registrar website.

Certificate Programs

The University offers a variety of certificate programs to pursue as a stand alone certificate, to complete in conjunction with a bachelor's degree, or to take for professional development. Requirements are determined by the academic department offering the certificate. Students wishing to pursue a certificate at any level should complete a Declaration of Certificate form (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Certificate-Declaration.pdf>). Contact the academic department offering the certificate program for more information, including application procedures. Click here (p. 70) for the listing of certificate programs in this catalog.

Choice of Catalog

Continuous Enrollment and Catalog Year

Catalog year determines the set of academic requirements (general education and the major) that must be fulfilled for graduation. Generally, the Catalog year is determined at the time of admission or when a student changes majors. 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 an undergraduate student's program (General Education and major curriculum) 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 major and who maintain continuous enrollment in 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 major have the option of following the catalog in effect

at the time of the major 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 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.

Students with an A.A. or General Education Certification

Students holding the A.A. or certification of the completion of General Education requirements from a Florida public college or university may elect to complete the degree requirements of UWF that were in effect at the time the student first entered the Florida public college university as a degree-seeking student. Students electing this option must be enrolled at UWF as a degree-seeking student within three years of the date of initial enrollment in the college or university. The transcript of the student granted this option must demonstrate that a four-year plan was made by the inclusion of the appropriate lower-division courses. Students should contact their major department for additional information regarding requirements for their degree program. A combination of catalogs may not be used to fulfill major degree requirements.

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.

Attendance Policy for FTIC Students in General Education Courses

The General Education Course Attendance Policy for First Time in College (FTIC) Students is designed to encourage engagement and supports efforts to improve student retention at UWF. This Policy is a subset of and acts in concert with the Class Attendance policy (above). This policy requires:

- Regular attendance for FTIC students in General Education Courses is expected and will be documented.
- Each General Education class to have a written attendance policy and requires the attendance policy to be included in the course syllabus.
- The faculty member teaching a General Education Course is to record the last day of class attendance for all FTIC students enrolled in the course.

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.

Continuous Enrollment

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

Student Educational Records

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

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

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

The following are some categories of records which FERPA defines as **not** constituting student educational records (for a complete list see

20 U.S.C. s 1232g). These categories of records are not subject to FERPA and UWF regulations:

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

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

Change of Student Information

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

Student Photos

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

Death of a Student

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

Annual Notification of Student Records and Directory Information

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

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

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

The right to request the amendment of the student's education records that the student believes is inaccurate, misleading,

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

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

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

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)

Directory Information

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

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

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

Students may choose to restrict their directory information through the Privacy section in their MyUWF (<https://my.uwf.edu>) account. Students who wish to have the privacy flag removed from their permanent academic record must contact the Office of the Registrar in writing or may submit the change online through MyUWF (<https://my.uwf.edu>).

Student Right-To-Know Information

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

Directory—Students, Staff, and Faculty

The University publishes an online Campus Directory which includes a campus locator and the names, addresses, telephone numbers, and departmental affiliation for faculty, staff, and students. The electronic directory is available internally through MyUWF (<https://my.uwf.edu>) for University students, faculty, and staff. Students who are also listed as employees of the University will have work related directory information included in the employee directory regardless of their student privacy status. Students may inform the University in writing if they choose to

prevent publication of directory information. Students must indicate privacy through MyUWF (<https://my.uwf.edu>) or complete and submit a privacy form to the Office of the Registrar by the end of the fall semester's drop/add period for information to be withheld from the published Directory (see Annual Notification of Student Records and Directory Information).

UWF Academic Misconduct Code

This policy is available on the UWF web sites at uwf.edu/osrr. Students should contact the Dean of Students Office, Building 21, (850) 474-2383 for more information.

Forms of Academic Misconduct

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

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

Grievances

The Student Grievance System is in the *Student Handbook and Planner* and available on the University of West Florida web site at uwf.edu/osrr.

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

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

Appeals and Requests for Waivers or Exceptions

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

Academic Appeals

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

Department Level (Academic Department)

Department level academic appeals include requirements for program admission, such as limited access and teacher certification, course substitutions or waivers for department requirements, course prerequisites, and other department level decisions. Students should contact their academic advisor and department chairperson for

information on the appeal process. The final appeal is determined by the College Dean.

College Level (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 (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 major or college.

Examples of University academic appeals include (but are not limited to):

- Late or retroactive withdrawals
- Summer hour requirement
- Major GPA requirement
- Semester hours in residence requirement
- Foreign Language requirement

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

Substitution of Graduation Requirements for Students with Disabilities

Students with documented visual impairments, hearing impairments, motor impairments, or specific learning disabilities may petition for substitution of degree requirements provided such substitutions do not significantly alter the nature of the program in which the student is enrolled. For more information about the University's degree requirement substitution policy, contact the college dean of the program for major requirements; for General Education, Gordon Rule, and other graduation requirements, contact the Dean's Office, College of Arts and Sciences.

General Education Appeals

The General Education Committee hears requests for waivers and substitutions of general education, Gordon Rule, multicultural requirement, or Associate degree requirements. In addition, the General Education Committee hears all requests for academic waivers or substitutions based on disabilities. Contact: General Education Committee, attention: Associate Dean of Arts and Sciences.

Registration Appeals

The Office of the Registrar reviews appeals related to grade forgiveness, late registration, and schedule adjustments (drop/add). Please visit the Registrar Website for appeals forms (<http://uwf.edu/offices/registrar/resources/forms/#den86366>).

Other Appeals

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

- Academic misconduct code appeals (http://uwf.edu/trustees/procedures/documents/Academic_Misconduct_Notice_and_Reg_May_11_2007.pdf)
- Academic probation or suspension appeals (http://uwf.edu/trustees/procedures/documents/UWFREG3.008AcadProbSuspReinst_000.pdf)
- Late class or University withdrawal appeal (<http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#withdrawal>)
- Waiver of graduation requirement appeal (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Appeal-for-Waiver-of-Graduation-Requirement.pdf>)
- Reinstatement after removal for non-payment appeal (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Appeal-for-Reinstatement.pdf>)
- Fee appeals (<http://uwf.edu/offices/financial-services/student-financial-services/fee-appeals>)
- Repeat course surcharge waiver appeal (<http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#repeatcoursesurcharge>)
- Discrimination, harassment and retaliation complaints (<http://uwf.edu/ohr/EEAA/InvestigationProcedure.pdf>)
- Financial aid appeals (satisfactory academic progress and other financial aid related appeals) (<http://www.uwf.edu/finaid/appealinfo.cfm>)
- Grade appeals (<http://catalog.uwf.edu/undergraduate/academicpolicies/grades/#gradeappeal>)
- Housing charges appeals (<http://uwf.edu/housing/onlineforms/appealchargeform.cfm>)
- Housing Cancellation appeals (<http://uwf.edu/housing/onlineforms/denialappealform.cfm>)
- Library fine appeals (<http://libguides.uwf.edu/content.php?pid=232298&sid=2346104>)
- Parking fine appeals (<http://uwf.edu/parking/appealsprocess.cfm>)
- Residency for in-state tuition appeals (http://www.uwf.edu/admissions/residency/res_appeals.cfm)
- Student conduct code appeals (<http://uwf.edu/osrr/documents/BOTApprovedStudentCodeofConduct-2010edition.pdf>)

Registration Policies and Procedures

Course offering information is available on the Office of the Registrar website (<http://uwf.edu/offices/registrar>), via the Course Search (https://erpapp.banner.uwf.edu/PROD/bwckschd.p_disp_dyn_sched).

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 receive their advising PIN (<https://confluence.uwf.edu/display/public/Viewing+your+Advising+PIN+in+MyUWF>). Appointments can be made through the advising centers, academic departments, and the Emerald Coast campus. Degree-seeking students have priority for registration and enrollment.

Academic Advising

The University of West Florida is committed to quality academic advising to assist all students in attaining their educational goals. The First Year Advising Center (<http://uwf.edu/offices/first-year-advising>) advises all freshmen students in their first semester of enrollment. All students are encouraged to seek academic advising on a regular basis.

Degree Progression

Each student is required to meet with the assigned academic advisor to develop a plan of study appropriate to the student's academic goals. The plan of study, as part of the student's degree audit, should be used as a tool for guiding students toward efficient graduation.

Plan of Study

All students will receive a degree-plan outlining their program of study. These are the benchmark for graduation and will be listed in the official degree plan upon initial enrollment.

Four-Year Plan of Study

All First-Time in College Students (FTIC) are projected to graduate in four-years (eight semesters or eleven semesters when including summer (s)). All FTIC students will have an assigned plan of study after meeting with the assigned academic advisor. Students who wish to change their major must meet with the assigned academic advisor to prepare another plan of study.

Two-Year Plan of Study

Florida College Students (FCS) and dual-enrolled students from an FCS institution entering with an Associates of Arts (AA) degree are projected to graduate in two years (four semesters or five semesters when including summer). All transfer students will have an assigned two-year plan of study after meeting with the assigned academic advisor, and should meet all degree program prerequisites in order to efficiently complete the two-year degree plan. FCS students should meet with the assigned academic advisor for this purpose by the end of their second semester at UWF. Students who wish to change their major must meet with the assigned academic advisor to prepare another plan of study.

Registration Holds

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

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

Late Registration

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

Course Load/Maximum Hours Taken Per Semester

A normal enrollment for undergraduates is defined as 15 semester hours per semester. To enroll for more than 18 semester hours in a semester, a student must have a completed Registration Drop/Add Form (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Registration-Drop-Add-Approval.pdf>) with the Maximum/Minimum Credit Hour Waiver portion filled out, along with the signatures of the student's academic advisor and the chairperson of the student's major department.

Certification of Enrollment

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

Status	Fall/Spring	Summer
Full time	12 SH or more	12 SH or more
3/4 time	9-11 SH	9-11 SH
Half time	6-8 SH	6-8 SH
Less than half time	0-5 SH	0-5 SH

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 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.

Preparatory Courses

Entering freshmen who have scored below State of Florida's determined minimums on the ACT or SAT exams or the Post-secondary Education Readiness Test (PERT) are required to take preparatory courses at a state or community college in the appropriate areas before they may register at UWF for courses in those areas. Students must complete preparatory courses prior to or during their first 12 semester hours. Students scoring below the following minimums will be required to take preparatory courses:

Test	Math	Score	Writing	Score	Reading	Score
ACT	Math	19	English/ Writing	17	Reading	19
SAT	Math	440	Writing	440	Critical Reading	440
PERT	Math	114	Writing	103	Reading	106

The student is notified of this requirement by mail prior to orientation and registration. Preparatory courses carry no college credit and do not count toward the 120 semester hours required for graduation. The Office of Undergraduate Admissions (<http://uwf.edu/admissions/undergraduate>) must be provided proof of a student's successful completion of a preparatory course before the student can continue enrollment beyond 12 semester hours at UWF.

Course Prerequisites/Corequisites

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

It is the student's responsibility to review prerequisite and corequisite information as stated in the course description (<http://catalog.uwf.edu/courseinformation/courses>). Non-degree students should contact the academic department for permission to enter any course that requires a prerequisite or corequisite. 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.

Courses Outside Degree Programs

Unless otherwise stipulated by external accreditation agreements, students whose academic programs require courses in other disciplines shall be given the same access to those courses as students in those majors.

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 department chair, in addition to the completion of the Variable Credit Hour Registration form (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Variable-Credit-Hour-Registration-Form.pdf>). Directed studies are available for approved subject area prefixes and levels and are designated by the last three digits of the course number. For example, ARH 4905 designates a senior level directed independent study in art history.

Undergraduates Enrolling in Graduate Courses

Courses at the 5000 level may apply to either a graduate or undergraduate degree program; however, a student may not receive both graduate and undergraduate credit for the same course, and the course may only be used for one program. With approval from their advisors, juniors and seniors may enroll for 5000 level courses that will be included in their undergraduate program. Only undergraduate students who have maintained a "B" average in courses numbered 3000 and above are permitted to enroll in graduate courses. For specific course requirements, students should contact the major department and refer to graduate course requirements in the catalog.

A 6000 level course may not be included in an undergraduate program. Students enrolled in a combined bachelor's and Master's degree program may apply up to 12 semester of approved graduate

courses (5000 or 6000 level) to both the undergraduate and graduate degree program. See the section on Combined Bachelor's/Master's Degree Programs in the Graduate Catalog. Undergraduate students who are within 30 semester hours of completing requirements for a bachelor's degree may enroll for 6000 level courses with the permission of their advisor and course instructors, provided their records indicate they have applied for a graduate program or have been admitted by an academic department to an approved combined bachelor/master's program.

Undergraduate students may register for up to 10 semester hours in graduate courses for graduate credit; permission must be granted in writing from the appropriate college dean to the Registrar's Office.

Graduate level fees are assessed for all graduate level courses regardless of the student's classification.

Southern Regional Education Board's (SREB) Electronic Campus

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

Pass/Fail Grading Option

At the time of initial registration for each semester, undergraduate students may elect to take a course on the pass/fail basis. It is the responsibility of the student to understand the restrictions and implications surrounding usage of Pass/Fail grades.

The pass/fail option may not be used for any University or departmentally required course. Students should see their advisors for advice of courses to be taken on the pass/fail basis. Courses taken with the pass/fail option may not be used to fulfill General Education requirements, other University requirements, or to fulfill the student's intended major requirements. However, the foreign language admission requirement may be taken on the pass/fail option.

No more than six semester hours or two courses (whichever is greater in credit) per degree may be taken on the pass/fail basis. A failed course taken on the pass/fail basis counts as part of the maximum six semester hours and is computed in the GPA. Courses graded only on a satisfactory/unsatisfactory basis are not considered as part of the allowable 6 semester hours of pass/fail.

Students may change from the pass/fail system in any course to the conventional letter grade system before the end of the tenth week of a fall or spring semester (see Academic Dates and Deadlines (p. 7)). Courses changed from the pass/fail grading system to the conventional letter grade system prior to the published deadline do not count as part of the six semester hours or two courses permitted to be taken on the pass/fail basis.

Audit Grading

Students may choose to audit a course at the time of registration. Instructors are not required to grade work of students auditing a course. No credit is earned for an audit course. Students may change from the audit to the conventional letter grade system on or before the end of the fourth week of a fall or spring semester (see Academic Dates and Deadline (p. 7)). Students must have the instructor's permission to change to an audit after the end of the drop/add period. Out-of-State fees are not assessed for audit courses. Out-of-State students changing from audit to the conventional letter grade system will be assessed out-of-state fees.

Drop/Add Changes

Class schedule changes (drop and add) may be completed once a student has initially registered until the end of the scheduled drop/add period. Students may choose to change their class schedules on MyUWF (<https://my.uwf.edu>). If the drop/add results in an increase in fees, the student must pay the additional fees as assessed by the fee payment due date. Any refunds of fees due to dropping a course prior to the end of the drop/add period will be issued by the Cashier's Office. Appeals to the drop/add period should be addressed to the Office of the Registrar via the Schedule Adjustment Appeal. ([http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Appeal-for-Schedule-Adjustment_NEW-\(1\).pdf](http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Appeal-for-Schedule-Adjustment_NEW-(1).pdf)) See Academic Dates and Deadline (p. 7)s (p. 7) 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 has not received authorized deferred payment status as of the close of the fee payment period. Students are responsible for reviewing registration and account information in MyUWF (<https://my.uwf.edu>).

Excess Hours Fee (Section 1009.286, Florida Statutes)

Students are required to pay an excess hour surcharge for each credit hour in excess of 120% (students who began enrollment Fall 2009-Summer 2011), 115% (students who began enrollment Fall 2011-Summer 2012), or 110% (students who began enrollment Fall 2012 and later) of the number of credit hours required to complete the baccalaureate degree program in which the student had declared at matriculation. Students whose initial enrollment at any institution of higher education beginning Fall 2009 and later may be assessed excess hours fees if they exceed the number of hours required for the degree program. Students whose initial enrollment as a degree seeking undergraduate in **any institution** of higher education was prior to Fall 2009 are exempt from excess hours. See Excess Hours information (<http://uwf.edu/offices/registrar/registration/excess-hours>) for specific excess hour fees.

The following credit hours are included when calculating:

- All credit hours for courses take at UWF, including failed courses, courses from which a student withdrawals, and repeated courses.

- All credit hours earned at another institution and accepted for transfer to UWF and applied toward the student's baccalaureate degree program.

Credit hours earned under the following circumstances are not calculated as excess hours:

- Credit earned through articulated accelerated mechanisms
- Credit hours earned through internship programs
- Credit hours required for certification, re-certification, or certificate programs
- Credit hours in courses from which students must withdraw due to reasons of medical or personal hardship
- Credit hours taken by active-duty military personnel
- Credit hours required to achieve a dual major
- Remedial and English as a second language credit hours
- Credit hours earned in military science courses that are part of the ROTC program

Repeat Course Surcharge

Florida public institutions are required to implement a repeat course surcharge for students who take a state-funded undergraduate course for the third time. Students taking the same course for the third time at UWF are subject to an increased matriculation fee of 100% of the cost of instruction. Exceptions may be made for individualized study, courses that are repeated as a requirement of a major (i.e. major requires student enroll multiple times), and courses that are intended as continuing over multiple semesters. The repeat of course work more than two times to increase grade point average or meet minimum course grade requirements is subject to the surcharge (see Tuition and Fees (p. 44) section). Appeals should be addressed to the Office of the Registrar via the Repeat Course Surcharge Appeal Form (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/repeatsurcharge.pdf>).

Withdrawal

Individual Class Withdrawal

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

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

Withdraw from All Courses (University withdrawal)

Students should contact the Office of the Registrar to withdraw from their final course (considered an University Withdrawal). Students withdrawing from all courses prior to the end of the 10th week* of a full semester will receive a grade of "W". Withdrawals from all courses during the first four weeks receive a partial refund. Withdrawals after the 10th week of a full semester are considered only by appeal.

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

Medical Withdrawals

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

The DSO will review the documentation and determine whether the criteria for a medical withdrawal have been met. The student will receive email notification once the decision has been made. The medical withdrawal process normally takes 10 to 14 working days. Questions regarding the medical withdrawal process may be directed to the Dean of Students office or the Office of the Registrar.

Withdrawals for Active Duty Military Service

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

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

Withdrawal Appeal Policy

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

Withdrawal appeals *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 withdrawal appeal **must** submit the following in order for the appeal to be considered by the Academic Appeals Committee:

- Appeal for a Late Class (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/latewithdrawal.pdf>) or University Withdrawal (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/University-Withdrawal-Form-%281%29.pdf>) form which must include the recommendations (in order) of the advisor, instructor, and department chairperson of the course. If the instructor is no longer at UWF, the department chairperson can sign for the instructor. *A separate form is required for each course in the semester for University Withdrawals.*
- A one-page typed statement fully explaining the reasons for the appeal; the statement should include the course of events in chronological order with dates specified, what prevented your academic success in the course, and why you did not withdraw by the withdrawal deadline.
- Documentation which supports your reasons to appeal:
 - All documentation is subject to verification.
 - Medical documentation should be submitted from a health care provider, psychologist, or counselor on official letterhead. The documentation should include the nature and duration of the illness/personal problems during the semester in question, the dates of services provided, and the provider's signature.
 - Documentation of a death would include a death certificate or obituary stating the relationship of the deceased to the student.
 - Appeals will not be considered without documentation.

Appeals for Fee Refunds

Fee appeals (<http://uwf.edu/offices/financial-services/student-financial-services/fee-appeals>) should be addressed to the Cashier's Office in Building 20. Appeals will be considered by the Fee Appeals Committee for documented, extenuating circumstances.

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

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

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

Students in a deferred status should consult the Cashier's Office regarding fee liability.

* See the *Academic Calendar* (p. 7) for specific deadlines including summer and short term dates.

Reinstatement for Canceled Registration

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

Final Examinations

Exams are scheduled during the Final Examination week of final exams of the fall and spring semesters, and may be scheduled on Saturday. It is the student's responsibility to review the final exam schedule and know when/where the exam may occur (see the *Academic Calendar* (p. 7). The final exam schedule can be found here (<https://confluence.uwf.edu/display/public/Final+Exam+Schedule>).

Final exams for summer are scheduled by the instructor.

State Employee Tuition Fee Waiver

State of Florida employees classified as permanent full-time employees may be allowed to register on a space-available basis at the University for a maximum of six semester hours of tuition-free courses per semester. State of Florida employees include employees of the executive, legislative, and judicial branches of state government. Persons employed by state universities, community colleges or school districts are not eligible for a State Employee Tuition Fee Waiver. Effective Fall 2013, the following fees, where assessed, will **not** be covered by the state employee waiver:

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

See tuition and fees (p. 44) for specific amounts. Students will be responsible for the payment of these fees by the designated fee payment date.

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

a Nautilus Card and parking decal. Waivers may not be used for the following types of courses:

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

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

Senior Citizen Tuition Fee Waiver

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

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

The free course benefit may be used on a space available basis only. Students may not pre-register for courses for which they plan to use a Senior Citizen Tuition Fee Waiver. The waiver form will not be processed if a senior citizen pre-registers and then submits a Senior Citizen Tuition Fee Waiver Form for the pre-registered course(s) after the fact. Students attending classes on the Pensacola campus must

purchase a Nautilus Card and parking decal. Students should contact the Office of the Registrar or visit the Senior Citizen Waiver website (<http://uwf.edu/offices/registrar/tuition-fee-waivers/senior-citizen-tuition-waiver>) for detailed information.

Transient Student

The Transient Student Application is available online through FloridaShines (<https://www.floridashines.org>). It is designed for degree-seeking UWF students who have permission to enroll in courses at another Florida Public University or College. A student under academic suspension is not eligible to submit a transient student application. Transient students may need to complete and submit additional information such as an application or transcripts prior to registration. Contact the institution at which you intend to enroll in courses for institutional policies regarding transient students. UWF students should consult with their advisors prior to enrolling in any courses at other institutions. Courses completed as a transient student are evaluated as transfer courses upon receipt of an official transcript. An online tutorial (<https://confluence.uwf.edu/display/public/UWF+Student+Tutorial+for+Outgoing+Transient+Students>) is available to students for assistance through the process.

Students enrolled in a degree program at another institution may register for courses at UWF as non-degree students. Students registering as transient students who are attending Florida public colleges and universities are encouraged to submit a "Transient Student" application via FloridaShines (<https://www.floridashines.org>) indicating approval of course work to be taken at UWF. Transient students are not eligible to receive financial aid from the University of West Florida. A student under academic suspension is not eligible to submit a transient student application. It is the student's responsibility to request official transcripts be sent to the parent institution. For further information, contact the Office of the Registrar. Transient students are not permitted to register until the non-degree student registration period. See Academic Dates and Deadlines (<http://uwf.edu/offices/registrar/resources/academic-dates-and-deadlines>) for specific dates.

UWF students enrolling in courses at another institution through a consortium agreement should contact the UWF Financial Aid Office for additional information. Students are responsible for having official transcripts sent to UWF upon completion of coursework.

International Student Exchange Programs

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

Grades and Academic Credit Policies

Grading System

Grades will be reported in the following manner:

Grade	Description	Grade Points
A	Outstanding	4.0
A-	Outstanding	3.7
B+	Above average	3.3
B	Above average	3.0

B-	Above average	2.7
C+	Average	2.3
C	Average	2.0
C-	Average	1.7
D+	Below average	1.3
D	Below average	1.0
F	Failure	0.0
G	Deferred (Thesis/ Dissertation only)	**
I	Incomplete	**
I*	Grade Not Reported	**
NF	Non-attending/Fail	0.0
P	Pass	**
S	Satisfactory	**
TR	Withdrawal with full refund	**
U	Unsatisfactory	0.0
W	Withdrawn	**
X	Audit	**

** 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 may be taken under a pass or fail ("P" or "F") option.

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

Honor Rolls

President's Honor Roll

Students who earn a semester GPA of 3.90 or higher on a minimum of six semester hours of graded A-F course work at UWF are recognized on the President's Honor Roll for that semester.

Dean's Honor Roll

Students who earn a semester GPA of 3.50-3.89 on a minimum of six semester hours of graded A-F course work at UWF in any semester are recognized on the Dean's Honor Roll for that semester.

Other Honors

Several colleges and departments of the University recognize meritorious achievement in appropriate ways.

Pass/Fail Grading Option

See Registration Policies and Procedures (<http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#pass/failgradingoption>).

Audit Grading

See Registration Policies and Procedures (<http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#auditgrading>).

Grade Changes

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

Repeated Courses

A student may receive credit for a course only once regardless of how many times it is taken in transfer or at UWF. All attempts at UWF count in the GPA unless grade forgiveness is used (see Grade Forgiveness Policy). Credit for a course may only be received for the most recent attempt.

Grades of Incomplete

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

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

Grade Forgiveness Policy

All grades will remain on the student's official transcript. The original course grade will be annotated to indicate that the course has

subsequently been repeated, and the repeat course grade will be annotated with the transcript containing explanations the course was repeated. The original grade will not be computed in the GPA or course hours included in hours earned except in a case in which the student withdraws from the repeated course or takes an incomplete grade. A completed Grade Forgiveness form ([http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Grade-Forgiveness-\(1\).pdf](http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Grade-Forgiveness-(1).pdf)) must be submitted to the Office of the Registrar no later than the last day of the term of the semester in which the course is repeated. If a Grade Forgiveness Form is submitted prior to the last day of the term of the semester in which the course is repeated the student may ask to have the Grade Forgiveness Request rescinded by contacting the Registrar's Office.

Students who may apply for grade forgiveness

Grade forgiveness is restricted to undergraduate degree-seeking students in undergraduate courses. Grade forgiveness is limited to courses (4 semester hours or less) numbered 1000-4999, in which grades are recorded on an "A-F" scale, including a "WF." The grade forgiveness option may not be exercised to remove a grade awarded in a case of academic misconduct. Once a bachelor's degree has been awarded by UWF, a student may not repeat a course and forgive the original grade for a course taken prior to graduation.

Opportunities for grade forgiveness

Beginning freshmen students are allowed two opportunities for grade forgiveness during their undergraduate program. Students who are admitted and enroll as a first-time in college (FTIC) student (classification may be other than freshman) are also eligible for two opportunities. Transfer students are permitted one opportunity to apply for grade forgiveness. Contact the Office of Undergraduate Admissions for information on status.

Restrictions

If a course has been taken more than one time prior to the application for forgiveness, forgiveness can be used to replace only the most recently awarded grade. Therefore, the grade forgiveness policy is not retroactive and will not retroactively alter any previous academic action. For example, a probation or disqualification status will not be removed from the records of the semester in which the student originally took the course.

A student may not use the UWF grade forgiveness option with a course from another institution.

To apply the grade forgiveness policy for all students, the second attempt at the course must have been taken subsequent to the Fall Semester 1986. For the second option for grade forgiveness for beginning freshman students, the second attempt must be the Fall Semester 1996 or later.

Unusual circumstances

Under unusual circumstances, a different but similar course may be used if the substitute course is approved by the student's college dean.

Attempts

If a student withdraws from a course repeated under the grade forgiveness policy, the attempt will count as an allowable attempt. However, the original grade will not be replaced with the "W" received in the repeat attempt.

Students under the G.I. Bill

G.I. Bill students and others receiving Veterans Administration educational benefits are advised that the forgiveness of any grade

other than an unsatisfactory grade must be reported to the V.A. and may result in the retroactive reduction of benefits for the semester for which the forgiven grade was originally assigned. An unsatisfactory grade may be forgiven without similar consequences. Notify the UWF Military and Veterans Resource Center (MVRC) when utilizing the forgiveness option.

A. A. Degree Forgiveness Policy

Students who previously attended UWF, whether as degree-seeking or non-degree who subsequently earn an Associate of Arts (A.A.) degree at another Florida public institution, have the following options. To be eligible for this policy, the student must transfer directly from the A.A. degree granting institution to UWF. All adjusted courses will remain on the transcript but they will not be calculated into the UWF GPA.

All credit earned at UWF prior to earning the A.A. degree at another Florida public institution will be excluded from the number of hours earned towards a baccalaureate degree and from all calculations of the UWF GPA. The official academic record will reflect 60 semester hours of credit awarded and completion of the General Education and Gordon Rule requirements in accordance with the State Articulation Agreement. The UWF GPA will include only those courses completed from this point forward and the student will be in good academic standing.

Credit, status, and GPA earned at UWF will remain the same. The transferable credit will be added to the total number of hours applicable to a baccalaureate degree and the A.A. degree will be posted. The student record will reflect completion of the General Education and Gordon Rule requirements.

Grade Appeal

Students should consult the *Student Handbook and Planner* website at the following for information regarding a grade appeal process: Grade Appeals Form (<http://uwf.edu/appeals/documents/gradeappeal.pdf>). 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.

Age of Credit

Undergraduate credits which are more than ten years old may be reviewed and reevaluated for credit toward current degree requirements at UWF. Specific programs and teacher education programs may have more stringent requirements.

Transfer Credit

Level of Transferred Courses

Courses from regionally accredited institutions with appropriate grades are acceptable for transfer credit and will be transferred at the level that the course was classified by the institution granting the credit.

Transfer Grades

A P grade in a transferred pass/fail course may be used to satisfy General Education and Gordon Rule requirements if there is documentation provided by the student that the P was equal to a grade of C (2.0 on a 4.0 scale) or higher or if pass/fail was the only grading system available for the transferred course.

Transfer Credit

Transfer credit is normally allowed for courses completed at or through other regionally accredited institutions of higher learning. No credit,

however, is allowed for technical, vocational, or pre-college courses. Credits earned from Florida public institutions will be evaluated on the basis of the Florida Statewide Course Numbering System. Those courses considered equivalent will be accepted for transfer credit at the level at which the course was classified by the institution originally awarding the credit. Courses are considered equivalent when the prefix and the last three numerical digits of the course number are the same. Courses not considered equivalent may be accepted for transfer credit at the discretion of the departmental chairperson. All grades earned at other regionally accredited institutions are entered on a student's record at the time of transfer exactly as earned. Such grades are averaged separately from grades earned at UWF and are not considered in the UWF GPA. Transfer grades are used in determining baccalaureate honors. Transfer courses appear on the UWF transcript. The University accepts the A.A. from Florida public institutions at face value. College work completed with satisfactory grades by a student at a regionally accredited institution of higher learning prior to graduation from high school will be considered under the same guidelines as other transfer work. The Office of Undergraduate Admissions must be provided an official transcript of such work.

Transfer of Credit for Matriculated Students

UWF degree-seeking students completing coursework at other institutions should complete and submit the Transient Student Form (https://ss.flvc.org/flvc/portal/Home_Page/Student%20Services/College_Transfer_Center/Transient_Student_Admission_Application). Completion requires that the student:

Obtain permission of the major advisor prior to enrollment at another institution;

Consult with the Director of the First Year Advising Center if completing the UWF General Education requirements

Obtain certification from the Office of the Registrar for residency and degree status for students taking courses at a Florida public college or university. The determination of specific course requirements (Gordon Rule, General Education, etc.) will be made upon receipt of the official transcript. The major department will determine course equivalency for courses in the major.

Non-Traditional Credit

The University recognizes the following programs for which undergraduate students may receive academic credit. A combined total of 60 semester hours, of which not more than 20 semester hours may be upper-division credit, may be accepted for transfer. Credit toward major requirements must be approved by the student's major department. Categories and maximum acceptable limits are as follows:

Category	Credit
Advanced Placement Program (AP)	30 sh
Cambridge Advanced International Certificate of Education (AICE)	30 sh
College Level Examination Program (CLEP)	30 sh
Correspondence/extended learning	30 sh
Departmental proficiency examination	30 sh
International Baccalaureate program (IB)	30 sh
Military service schools	30 sh

Proficiency examination program	30 sh
USAFI/DANTES credit	30 sh

Acceptability of University credit from all sources will be determined by the Office of Undergraduate Admissions. Specific credit amounts and UWF course equivalents can be found at: [Credit-by-exam_equivalencies.pdf](http://catalog.uwf.edu/undergraduate/academicpolicies/grades/Credit-by-exam_equivalencies.pdf) (http://catalog.uwf.edu/undergraduate/academicpolicies/grades/Credit-by-exam_equivalencies.pdf). Students receive appropriate credit provided they have not attempted comparable credit at the college level in the appropriate general education area or in the specific discipline. No credit will be awarded for a subject matter examination if the student has already earned any course credit in the subject area.

Dual credit on CLEP is not allowed for similar examinations. For example, a student may earn credit on the CLEP general examination in English composition or on the subject matter examination in English composition, but not on both. Likewise, as student may earn credit for college algebra or on college algebra/trigonometry, but not both. In accordance with the articulation agreement and because CLEP credit is regarded in the same category as transfer credit, students who have earned CLEP credit in partial fulfillment of the requirements for the A.A. from a Florida public institution will be awarded credit on the basis of their presentation of the A.A. The University of West Florida will not evaluate individually the credits on which the A.A. degree is based. Transfer students who have completed a General Education program at a Florida public institution and whose transcript is so marked will be considered to have completed the General Education requirements at UWF. A second evaluation of CLEP credits will not be undertaken at this University. CLEP credits for transfer students other than those identified in the above sections will be awarded according to the guidelines stipulated by the Florida Administrative Code. Contact the Office of Undergraduate Admissions (<http://uwf.edu/admissions>) for detailed information.

Correspondence Study

Students who anticipate taking correspondence courses should discuss these plans with their faculty advisor. Information regarding correspondence courses offered for the Florida public universities may be obtained by writing to Department of Independent Study, 2209 NW 13th Street, Suite D, Gainesville, Florida 32609-3498.

Other contact information is as follows: (352) 392-1711, x. 200; Request Information (<http://www.distance.ufl.edu/request-information>); or correspondencestudy.ufl.edu (<http://correspondencestudy.ufl.edu>).

It is the student's responsibility to have an official transcript forwarded to the Office of Undergraduate Admissions.

Credit by Proficiency Examination

Degree-seeking Students

Students currently enrolled in the University as undergraduate degree candidates may request permission to take an examination for course credit. Each academic department may determine if a specific course is eligible for proficiency credit based on the content, material and subject matter. No fees will be assessed. Students should contact the chairperson of the appropriate department to make arrangements for an examination to be given. The grade for the proficiency exam will be submitted to the Office of the Registrar. Grades will be recorded and UWF's grading system and policies will be applied. Proficiency exams may be taken on the pass/fail basis and all other pass/fail regulations apply. A student who previously attempted a course or is currently enrolled in a course may not use the credit by proficiency

examination option for that course. Students may attempt to earn credit by examination in a specific course only once, regardless of whether the examination is passed or failed. Students who have earned a letter grade A-F in a course may not challenge the course by examination under the forgiveness policy. A total of 30 semester hours of credit by examination may be applied to an undergraduate degree.

Non-degree-seeking Students

Non-degree students who possess a bachelor's degree or higher, are participating in an approved teacher education program, and demonstrate significant teaching experience may take one or two courses amounting to no more than nine semester hours of their course work through the credit-by-examination option. Students must be enrolled in UWF at the time the exam is given. All other policies related to proficiency exams as stated for degree-seeking students apply.

Access to Grades

Currently, enrolled students may access their grades after grades are due via MyUWF (<https://my.uwf.edu>). (see Academic Calendar (p. 7))

Transcripts

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

Graduation and General Degree Requirements

Pre-Graduation Audit

Students are required to meet with the assigned academic advisor to complete a Pre-Graduation Audit prior to completing 90 semester credit hours. This audit is intended to advise the student of all courses needed for graduation and to confirm that all remaining requirements are included in the degree plan.

Graduation Process

Students are responsible for meeting all graduation requirements. Having met all requirements for an undergraduate degree a student is expected to graduate and will not be permitted to take additional classes as an undergraduate student. Student responsibilities include:

1. Meeting with an academic advisor each semester to discuss degree progression;
2. Completing the Graduation Application online by the deadline listed in the Academic Dates and deadlines in the Catalog;
3. Meeting with the Department and completing a Graduation Action Plan when necessary; and
4. Meeting all requirements for the degree.

Bachelor's Degree Requirements

Requirements for a bachelor's degree from UWF are listed below. The colleges and departments may have requirements which exceed

these minimums. Students should refer to their degree audits (<https://confluence.uwf.edu/display/public/Viewing+a+Degree+Audit>) to review degree requirements. The degree audit must indicate all requirements have been completed. Please consult the individual departments for details. Minimum requirements are:

- 120 semester hours in an approved program
- UWF cumulative 2.00 GPA with a major GPA of 2.00 (departments may set a minimum grade requirement in each course and limited access programs may require higher minimum major GPAs)
- 48 semester hours in upper-level course work
- 25% of degree program credits must be earned at UWF
- The last 30 semester hours of credit for a degree must be earned at UWF
- 24 semester hours of upper-level work in the major field with a minimum of 18 upper-level semester hours in the major field at UWF
- Fulfillment of Gordon Rule
- Completion of all General Education requirements
- Completion of all program specific lower division common prerequisites
- Completion of admissions foreign language requirement
- Completion of multicultural requirement
- Nine hours of summer semester enrollment at an SUS institution (students who entered UWF with less than 60 semester hours)
- A degree will not be awarded for a student on academic probation or suspension
- Admitted and enrolled at UWF in a degree-seeking status for a minimum of one semester in the degree program for which a degree is awarded
- Admitted and enrolled at UWF in a degree-seeking status within the last five years of the date the degree is awarded. Students should contact their major department to determine the minimum of 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.

Additional Bachelor's Degrees

Students who have previously earned a bachelor's degree from any regionally accredited institution, including UWF, may earn an additional bachelor's degree by completing the following requirements:

- A minimum of 30 semester hours at UWF in an undergraduate degree-seeking program after the previous bachelor's degree has been awarded. Students who have earned a bachelor's degree, even if the degree is awarded by UWF, must go on to complete at least 30 additional semester hours (regardless of the number of semester hours required to complete requirements for the new major) in order to be eligible for the additional bachelor's degree;
- Meet all departmental requirements for the additional bachelor's degree;
- A degree will not be awarded for a student on academic probation or suspension;
- Admitted and enrolled at UWF in a degree-seeking status for a minimum of one semester in the degree program for which a degree is awarded;
- Admitted and enrolled at UWF in a degree-seeking status within the last five years of the date the degree is awarded. Students should contact their major department to determine the minimum

of 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.

Double Major/Dual Degree

Students earning UWF bachelor's degrees may work on two programs simultaneously; however, majors or degrees with the same CIP code cannot be pursued simultaneously. Double majors and dual degrees must be awarded in the same semester.

Double Majors

Double majors are defined as seeking one degree, e.g. BA, with two separate majors concurrently, e.g. BA in Psychology, and a BA in Sociology. Students must declare a major in each department (as applicable) and be assigned an Academic Advisor in each discipline. After successful completion of all requirements for both majors, students will be awarded one degree with two majors listed on the diploma and transcript. Students seeking a double major must complete the requirements for both programs at the time of graduation.

Dual Degree

Students pursuing two different degrees (e.g. BA+BS, BSBA+BA, ect.) and graduating with both simultaneously will be awarded a dual degree. Dual Degrees will only be awarded for programs with different degrees. Students must declare a major in each department (as applicable) and be assigned an Academic Advisor, in each discipline. After successful completion of all requirements for both majors, students will be awarded two separate diplomas; one for each degree.

In addition to meeting the requirements listed for the bachelor's degrees, these students must do the following:

- Submit a Change of Major form (http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Change-of-Major-Form_Signature.pdf) with the Double Major and Dual Degree Declaration portion completed
- Complete all department and University requirements
- Complete a minimum of 120 semester hours
- Complete a Graduation Application for each program. (Two separate applications submitted for same semester.)

Associate of Arts Degree Requirements

The A.A. degree is available to degree-seeking students who have done the following:

- Satisfied the requirements of UWF's General Education requirements
- Completed at least 60 semester hours of course work
- Completed at least 30 semester hours of those 60 semester hours in residence at UWF. Eighteen semester hours of the 30 semester hours in residence must be taken from the list of UWF General Education courses (contact the First Year Advising Center (<http://uwf.edu/offices/first-year-advising>) for details)
- Fulfilled the requirements of the Gordon Rule
- A UWF cumulative GPA of at least 2.00
- Completed the admissions foreign language requirement
- A degree will not be awarded for a student on academic probation or suspension (<http://catalog.uwf.edu/undergraduate/academicpolicies/general/#academicstanding>)
- Students should contact the First Year Advising Center to determine the minimum of hours and courses in which to enroll. Students who need to be readmitted (<http://catalog.uwf.edu/>)

[undergraduate/academicpolicies/general/#academicstanding](http://uwf.edu/undergraduate/academicpolicies/general/#academicstanding)) will be required to meet the degree requirements of the current catalog.

Students who meet these requirements do not automatically receive the A.A. degree. Students must submit a Change of Major form (http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Change-of-Major-Form_Signature.pdf) with the AA Degree indicated as the Secondary Major. Students must apply to graduate for the degree through the online Graduation Application (<https://confluence.uwf.edu/display/public/Applying+for+Graduation>) (see Academic Calendar (<http://uwf.edu/offices/registrar>) for submission deadlines). The A.A. degree will not be awarded in the same semester that the baccalaureate degree is awarded or in any semester following the completion of the baccalaureate degree.

Posthumous Baccalaureate Degree

To be considered for a posthumous degree, generally undergraduate students shall have successfully completed at least eighty percent of the chosen UWF degree program, be in good standing at the University of West Florida, and have met the University of West Florida degree residency requirements. The student's academic department must initiate the request for a posthumous degree through the Provost's Office.

Baccalaureate Honors

The University will confer baccalaureate honors recognition on those students who have earned:

- At least 40 semester hours of graded work at UWF.
- At least a 3.5 institutional (UWF) GPA.
- At least a 3.5 overall (transfer and UWF)GPA.
- Baccalaureate Honors will be based on the lower of the two GPAs; either the cumulative institutional or overall cumulative GPA. The GPA calculation can be found on the unofficial transcript.

The following minimum GPAs are required for graduation honors:

Degree	GPA
Cum Laude	3.50
Magna Cum Laude	3.70
Summa Cum Laude	3.90

Previous recognition on the President's or Dean's Honor Rolls does not ensure baccalaureate honors at graduation.

Application for Graduation

Bachelor, Master, Specialist, and Associate degree candidates: Students should follow the instructions for Applying for Graduation (<https://confluence.uwf.edu/display/public/Applying+for+Graduation>), and also the Graduation Guide (<http://uwf.edu/offices/registrar/graduation-guide>).

Students applying for a certificate should complete the Completion of Certificate form (<http://uwf.edu/media/university-of-west-florida/offices/registrar/documents-pdf/pdf/Certificate-Completion.pdf>) and submit to the Office of the Registrar. Awarded certificates will be listed on the student's academic transcript.

Doctoral degree candidates should contact the Office of the Registrar for a Doctoral Application for Graduation (<https://confluence.uwf.edu/display/public/Applying+for+Graduation/#ApplyingforGraduation-DoctoralPrograms>).

All applications must be submitted during the application period. Specific dates are noted in the Academic Calendar (<http://uwf.edu/offices/registrar>). Students who miss the deadline should contact their academic department to determine eligibility and to request a late submission. Students submitting a late application risk not being included in the commencement program important graduation communication.

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. Associate of Arts and certificate candidates are not permitted to participate in the commencement ceremony. Participation in commencement does not guarantee that all graduation requirements are complete. "Applications 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.

Summer Graduation

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 commencement ceremony.

Degree Audit System

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

General Degree Requirements

In addition to the requirements for the major program of study, students must satisfy the following general University requirements:

General Education Requirements

All students (except for students holding an A.A. or certification of the completion of general studies requirements from a Florida public university or college) who enter UWF must complete the requirements specified as General Education. The General Education requirements are the basic studies that provide students with a broad educational foundation and are essential requirements for all A.A. and baccalaureate degree programs. Courses may not be taken on the pass/fail basis. The General Education requirements are specified in the distribution as follows:

Communication (p. 36)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 36)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 36)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 36)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 36)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 36)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Gordon Rule (Writing and Mathematics) Requirements

To fulfill the writing and mathematics requirement for earning the first baccalaureate degree, students are required to satisfy the Gordon Rule, Florida Statutes by taking six semester hours of English coursework and six semester hours of additional coursework in which students are required to demonstrate college-level writing skills through multiple assignments. In addition, six semester hours of mathematics at the level of college algebra or higher are required. Students are required to take six semester hours of theoretical math or three semester hours of theoretical math and three semester hours of applied math. Students must have a grade of "C-" or better in the courses to successfully complete this requirement. Courses may not be taken on the pass/fail basis. Students must complete these

requirements before advancing to upper-division status. Transfer students should refer to the Transfer Credit (p. 34) section of this catalog. Students should consult the Office of Undergraduate Admissions (<http://uwf.edu/admissions/undergraduate>) for evaluation of transfer mathematics courses for General Studies requirements, Gordon Rule, and credit for graduation. The following UWF courses are approved for Gordon Rule (some courses may be more or less than 3 sh):

English/Humanities Courses
(p. 36)

AML 2072	Sex, Money, and Power in American Literature	3
ARH 2050	Western Survey I: Greek to Renaissance	3
ARH 2051	Western Survey II: Baroque to Contemporary	3
ARH 3590	Perspectives in Ancient and World Art	3
ARH 3621	American Art	3
ARH 3724	History of Graphic Design	3
ARH 3871	Women in Art	3
ARH 4150	Etruscan and Roman Art and Architecture	3
ARH 4302	Late Renaissance Art in Italy	3
ARH 4305	Early Italian Renaissance Art	3
ARH 4412	Nineteenth Century European Art	3
ARH 4450	Modern Art 1900-1950	3
ARH 4470	Art After 1950	3
ARH 4911	Research in Art History	3
CCJ 4700	Research Design in Criminal Justice	3
CIS 3512	Software Documentation	3
CRW 2001	Introduction to Creative Writing	3
EME 3402	Information Technology Implementation Case Studies	3
ENC 1101	English Composition I	3
ENC 1102	English Composition II	3
ENC 3213	Introduction to Professional and Technical Writing	3
ENC 3240	Technical Writing	3
ENC 3250	Professional Writing	3
ENG 3010	Critical Methods for Literary Study	3
EVR 3894	Environmental Writing	3
FIL 4102	Writing for Film-Television-Radio	3
GEB 3213	Writing for Business: Theory and Practice	3
IDH 1040	Honors Core 1	3
JOU 2100	Newspaper Reporting	3
JOU 4306	Writing Critical Reviews	3
JOU 4308	Magazine Writing	3
LIT 1122	Great Books I	3
LIT 2000	Introduction to Literature	3
MUH 3211	History of Western Music I: End of Ancient World Through 17th Century	3
MUH 3212	History of Western Music II: 18th through 20th Centuries	3
NUR 4165	Essentials of Evidence-Based Nursing Practice	3
PHI 2010	Introduction to Philosophy	3
PHI 2103	Critical Thinking	3
PHI 2603	Ethics in Contemporary Society	3
PHI 3320	Philosophy of Mind	3
PHI 3500	Metaphysics: Furniture of the Universe	3
PHI 3700	Philosophy of Religion	3
PHI 4300	Theory of Knowledge	3
PLA 4155	Legal Advocacy	3
REL 1300	World Religions	3
REL 3145	Women and Religion	3
REL 3158	Religious Experience	3
REL 3213	Studies in Hebrew Scriptures/Old Testament	3
REL 3241	Studies in the New Testament	3
SOW 3350	Interviewing and Recording	3
THE 2300	Survey of Dramatic Literature	3

Mathematics/Applied Courses
(p. 36)

MAP 4115	Introduction to Stochastic Processes	3
STA 2023	Elements of Statistics	3
STA 3162C	Applied Statistics	4
STA 4173	Biostatistics	3
STA 4321	Introduction to Mathematical Statistics I	3
STA 4322	Mathematical Statistics II	3
STA 4664	Introduction to Statistical Quality Control	3

Mathematics/Theoretical Courses

(p. 36)

MAA 4211	Advanced Calculus I	3
MAA 4212	Advanced Topics in Multi-Variable Calculus	3
MAC 1105	College Algebra	3
MAC 1114	Trigonometry	3
MAC 1140	Precalculus Algebra	3
MAC 2233	Calculus with Business Applications	3
MAC 2311	Analytic Geometry and Calculus I	4
MAC 2312	Analytic Geometry and Calculus II	4
MAC 2313	Analytic Geometry and Calculus III	4
MAD 3107	Discrete Mathematics and Applications	3
MAD 4401	Numerical Analysis	3
MAP 2302	Differential Equations	3
MAP 4341	Partial Differential Equations	3
MAS 3105	Linear Algebra	3
MAS 4156	Vector Analysis	3
MAS 4203	Number Theory	3
MAS 4301	Abstract Algebra	3
MGF 1106	Mathematics for Liberal Arts I	3
MGF 1107	Mathematics for Liberal Arts II	3
MHF 3202	Set Theory and Mathematical Logic	3
MTG 3212	Modern Geometry	3

NOTE: Courses with the MAE prefix do not satisfy the Gordon Rule math requirement.

Multicultural Requirement

An important component of a liberal education is the study of cultures other than one's own. As such, multiculturalism encompasses the appreciation of the values, expressions, and modes of organization of diverse cultural communities. To further such study, the University of West Florida requires all students pursuing a bachelor's degree to complete at least one course that explores one or more of the dimensions of another culture (language, religion, socio-economic structures, etc.). Students are exempt from this requirement if they have completed an A.A. degree, the general education program at a Florida public institution, or a baccalaureate degree.

The requirement is satisfied by the successful completion of a multicultural course designated on the following list. Several of the selections are General Education courses, and students may enroll in these to meet both the General Education and the multicultural requirements.

This list is continually updated and students are encouraged to check with their advisors for alternative options.

Multicultural Courses (p. 36)

AML 3604	African American Literature	3
AML 3624	Black Women Writers	3
AML 4015	Topics in Nineteenth-Century American Literature	3
ANT 2000	Introduction to Anthropology	3
ANT 3212	Peoples and Cultures of the World	3
ANT 3312	North American Indians	3
ANT 3363	Japanese Culture	3
ANT 3403	Cultural Ecology	3
ARH 1000	Art Appreciation	3
ARH 2050	Western Survey I: Greek to Renaissance	3
ARH 2051	Western Survey II: Baroque to Contemporary	3
ARH 3590	Perspectives in Ancient and World Art	3
ARH 4302	Late Renaissance Art in Italy	3
ARH 4305	Early Italian Renaissance Art	3
ARH 4412	Nineteenth Century European Art	3
ARH 4450	Modern Art 1900-1950	3
ARH 4470	Art After 1950	3
ARH 4652	Art and Archaeology of the Ancient Andes	3
ARH 4653	Art and Archaeology of Mesoamerica	3
CCJ 3678	Race, Gender, Ethnicity, and Crime	3
COM 4014	Gender and Communication	3
CPO 2002	Comparative Politics	3
CPO 3055	Dictatorships	3
CPO 3103	Politics of Western Europe	3
CPO 3322	Cuba, Castro and the USA	3
CPO 3513	Politics of the Far East-Japan and China	3
CPO 3773	Great World Leaders	3
CPO 4303	Politics of Spain, Portugal, and Latin America	3
CPO 4792	Geopolitics	3
EDF 2085	Teaching Diverse Populations	3
ENG 4013	Introduction to Literary Theory	3
EUH 1000	Western Perspectives I	3
EUH 1001	Western Perspectives II	3
EUH 3203	Modern Europe	3
EUH 3411	Rome and the Mediterranean World	3
EUH 3576	Soviet Union since 1917	3
EUH 4239	Europe's Expansion Overseas	3
FRE 4955	Supervised Foreign Language Field Experience Abroad	1-3
GEA 2000	Nations and Regions of the World	3
GEA 4405	Geography of Latin America	3
GEB 4361	International Business	3
GEO 3421	Cultural Geography	3
GEO 3471	Geography of World Affairs	3
HIS 4316	Women in the Atlantic World	3
IDH 1041	Honors Core 2	3
INR 2002	International Politics	3
INR 3006	Conflict, Violence and Peace	3
JPN 3270	Supervised Language Experience Abroad	3
LAH 3100	Colonial and Revolutionary Latin America	3
LAH 3200	Latin America since Independence	3
LIT 2000	Introduction to Literature	3
LIT 3233	Postcolonial Literature	3
LIT 4385	Feminist Theory	3
MAN 4102	Management of Diversity	3
MAR 4156	Seminar in International Marketing	3
MMC 3601	Minorities and the Mass Media	3
MMC 4300	Global Communication	3
MUH 2930	The Music Experience: Special Topics	3
NUR 4636	Public Health & Community-based Nursing	4
REL 3145	Women and Religion	3

REL 3310	Philosophies of the East	3
REL 4592	Development of Christian Thought	3
SOW 4233	Human Diversity and Social Justice	3
SPC 4710	Intercultural Communication	3
SPN 3400	Advanced Stylistics	3
SPN 4500	Spanish Civilization	3
SPN 4520	Latin American Culture and Civilization	3
SPN 4955	Intensive Spanish Abroad	1-5

Foreign Language Requirement

Florida Statutes require that students admitted to a Florida public university meet the foreign language requirement for demonstrating competency in a foreign language. Students who have earned an A.A. from a Florida public community college may be admitted to the University, but must demonstrate competency prior to graduation with a baccalaureate degree. Students completing 8-10 semester hours of American Sign Language with passing grades will have satisfied the foreign language admission requirement. The foreign language requirement must be satisfied prior to progression to upper-division status. In addition, each academic department may determine specific language requirements for students and will recommend or require languages and proficiencies according to individual needs, career objectives, and academic programs.

Competency may be demonstrated in the following ways:

- Earning two credits of a single foreign language in high school or one credit in high school and the second semester (four semester hours) of the same foreign language at an accredited postsecondary institution demonstrating proficiency through the second level, OR
- Satisfactory completion of two semesters (8-10 semester hours) of a single foreign language at a postsecondary institution prior to admission to UWF demonstrating proficiency through the second level. Grades of P are acceptable for this requirement, OR
- Satisfactory completion of two semesters (8-10 semester hours) of a single foreign language at UWF demonstrating proficiency through the second level. Grades of P are acceptable for this requirement. Successful completion of the following tests with appropriate test scores: CLEP subject matter examinations, MAPS-Latin examination published by the College Entrance Examination Board, and proficiency examination at UWF.

Undergraduate transfer students are exempt one of the following applies: (1) they received an A.A. from a Florida public college prior to September 1, 1989; or (2) they enrolled in a program of studies leading to an associate degree from a Florida public college prior to August 1, 1989, and complete at least one academic course each twelve month period beginning with the student's first enrollment in a Florida public college and continuing until the student enrolled at UWF.

Common Program Prerequisites

Students entering most bachelor's degree programs at any Florida public institution must successfully complete a set of lower division courses specified as "common prerequisites" for the selected program. The common lower division prerequisites for a given program are listed with other course requirements for that program. The Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) at FloridaShines (<https://www.floridashines.org>) lists the common prerequisites courses and substitutions for each university program. Students are urged to consult their advisors early

about choices of majors and to schedule General Education and common prerequisites course work.

Summer Hour Requirement

Undergraduate students entering one of the state universities of Florida with less than 60 semester hours of credit must earn at least nine semester hours prior to graduation by attendance during one or more summer sessions at one of the state universities. Students may satisfy this requirement through online courses at UWF as well as any other UWF courses. Courses taken within the community college, state college system, or outside of the State University System of Florida cannot be used to satisfy summer hours.

Residency Requirement

Students must complete a minimum of 30 semester hours (25% of the degree program) in a planned program at UWF. In addition, the last 30 semester hours of course work for the undergraduate degree must be completed in residency at UWF. Courses taken while on University sponsored study abroad programs count as resident credit for purposes of meeting graduation requirements. Courses taken at another institution will not meet the UWF residency degree requirement.

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 enrolled students at the University of West Florida. Required fees are established by the Florida Board of Governors, Florida Legislature, and UWF's Board of Trustees and are generally updated each fall term. The University will make every possible effort to advertise any changes in fees when and if they occur.

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

2015-2016 Tuition and Fees

Refer to [Tuition_and_Fees_for_2015-2016_Catalog.pdf](http://catalog.uwf.edu/undergraduate/tuitionandfees/Tuition_and_Fees_for_2015-2016_Catalog.pdf) (http://catalog.uwf.edu/undergraduate/tuitionandfees/Tuition_and_Fees_for_2015-2016_Catalog.pdf) for the 2014-2015 academic year tuition and fees information.

Payment of Fees

Methods of Payment

Fees may be paid by any of the following methods:

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

- By mail. Mail must be received by the due date to be considered on time. Postmark date is not considered on time. All payments must include the student's name and 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 correct 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 due dates, deadlines, and other requirements by referring to the Academic Calendar (p. 7) and viewing their Account Balance on MyUWF (<https://my.uwf.edu>). If necessary, students should inform their parents or other interested parties of the deadline dates and the necessity for meeting them.

When to Pay Fees

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

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

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

Financial Aid Delivery

Financial aid awards that are complete prior to the beginning of each term and available for disbursement, including loans and scholarships, are processed by Student Accounts. Tuition, fees, housing, meal plans and any other outstanding eligible charges are deducted from the financial aid proceeds and the remaining funds are sent to Higher One (UWF's contracted refund management partner) to be refunded via the method chosen by the student. It is the student's responsibility to ensure that all tuition, fees, and other charges are paid in full by the

due date. Any balance over and above the amount that is covered by available financial aid must be received in the University Cashiers Office by the fee payment due date to avoid assessment of a \$100 late payment fee.

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

The netting of financial aid awards begins after the drop/add period. Late awards of financial aid are processed in the same manner throughout each academic term. All excess financial aid will be sent to Higher One for refunding according to the student's refund preference selection. All degree seeking students will receive a Higher One Enrollment Packet and an inactive Higher One Debit MasterCard at the current address listed on MyUWF (<https://my.uwf.edu>). It is the responsibility of each student to keep their current address updated with the Office of the Registrar. Address changes can be made in person or over the web.

Higher One Enrollment Packet – DO NOT DISCARD

The packet includes a Personal Code as well as an inactive Higher One Debit MasterCard. Students can use the alphanumeric Personal Code to begin refund preference selection. Once logged into the system via the website, the following options are available for refunds:

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

Note: The Higher One Debit MasterCard only becomes active if option 2 is chosen, the Higher One OneAccount refund option. Students who choose the ACH option and plan to subsequently transfer funds to a foreign financial institution must contact the Student Accounts Office.

UWF Payment Plan

Eligible students may pay current term tuition and fees, housing and mandatory meal plans in three equal installments. 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. 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 detailed information.

Contracts and Fees Paid by Another Agency

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

pending status with the Cashiers Office during the designated fee payment period.

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

Florida Prepaid College Program

The Florida Prepaid College Program is not financial aid. Rather, it is a third party billing plan, and as such is processed by the University Cashiers Office. Florida Prepaid participants are automatically downloaded from the Florida Prepaid website. Billing to Florida Prepaid is automatic based on the number of undergraduate credit hours a student is enrolled in each semester and the student's number of available Florida Prepaid hours. There are different types of Florida Prepaid plans. The type of plan a student owns will determine the amount per hour Florida Prepaid will pay each term. No Florida Prepaid plan pays material and supply fees, online fees, transportation fees, technology fees, or green fees. Any portion of the student's account balance not covered by Florida Prepaid or other financial aid must be paid by the fee payment due date or it will result in the assessment of a \$100 late payment fee.

If a student chooses not to bill Florida Prepaid, they must notify the University Cashiers office each term by the end of the fee payment period.

Delinquent Balances

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

Tuition Waivers

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

Dual Enrolled or Early Admitted Students

High school students enrolled in dual enrollment or early admission programs pursuant to Florida Statutes articulated acceleration will be exempt from the payment of tuition and mandatory fees. Refer to sections on Registration and Admissions for more information.

Florida National Guard

Certain members of the active duty Florida National Guard may be exempt from the payment of one-half of the cost of tuition and fees for courses on a space-available basis only. Students using this waiver may not register for courses subject to the waiver until the last day

of registration. Certain members of the Florida National Guard may qualify for that portion of fees not otherwise waived to be paid directly by the Florida Department of Military Affairs when authorized by that agency.

Purple Heart

Recipients of the Purple Heart or other combat decoration superior in precedence may receive a tuition and fees waiver. The student must be enrolled in an undergraduate program of study leading to a degree or certificate, is currently and was at the time of the military action that resulted in the awarding of the combat decoration a resident of Florida, and submits a copy of the Department of Defense Form 214 (DD-214) as documentation that the student received the Purple Heart or other combat decoration superior in precedence. The waiver is applicable for 110 percent of the number of required credit hours of the degree or certificate program for which the student is enrolled.

Florida Department of Children and Family Services

Students shall be exempt from paying tuition and fees if the student is or was at the time he or she reached the age of 18 in the custody of DCF or a relative under s. 39.5085; who was adopted from the DCF after May 5, 1997; or was placed in a guardianship by a court after spending at least 6 months in the custody of DCF after reaching 16 years of age. The student must provide certification of eligibility from the Florida Department of Children and Family Services. This exemption shall remain valid until the time the student reaches 28 years of age, shall be limited to undergraduate degree programs, and shall not exceed 120 credit hours.

Florida Resident Senior Citizens

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

Special Risk Dependents

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

State Employee Six-Hours-Free Course Benefit

State Employees are eligible for six hours of tuition free courses per term (fall, spring, summer). Certain portions of course fees are not covered by the waiver and must be paid by the fee payment due date to avoid the assessment of a \$100 late payment fee or the cancellation of registration. Refer to State Employees (<http://catalog.uwf.edu/graduate/academicpolicies/registration/#stateemployees>) in the Registration Policies and Procedures section of this *Catalog* for detailed procedures and policies.

Out-of-State Students

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

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

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.

UWF Employee Tuition Waiver Program

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

Late Registration and Late Payment Fees

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

Deferred Payments:

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

Veterans Deferments

- Deferral eligibility is granted to students receiving veterans' education benefits from federal programs if aid is delayed in transmission to the student through circumstances beyond the student's control.
- Veterans and other eligible students receiving veterans' education benefits on active duty and under Chapters 30, 32, 33, 35, 1606,

and 1607, U.S.C., are eligible for one deferment each academic term. A 90-day deferment may be issued for the fall and spring terms and a 30-day deferment may be issued for the summer and mini-terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date.

A veteran may request a deferment (promissory note) via their VA Enrollment Certification in MyUWF (<https://my.uwf.edu>) or at the VSO for the amount of tuition and fees. The VSO 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.

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

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

Third Party Billings

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

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

Refund of Fees

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

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

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

Return of Title IV Funds (Student Responsibility)

The University of West Florida is required by Federal regulation to monitor financial aid students who receive Title IV Funds (Pell, SEOG, Direct Loans, Perkins and Plus Loans). Students who have officially or unofficially withdrawn (stopped attending classes without notification)

from all courses before completing more than 60 percent of the term are not eligible for 100 percent of their 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 account preventing registration, grades and transcripts. Contact the Student Accounts Office for exact dates and repayment requirements (850-474-3038 or stuacct@uwf.edu).

Appeal for Late Fee Assessments and Refunds

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

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

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

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

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

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

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 Business, Finance, and Facilities, as designee of the President, who has final authority within the University.

Residency for Tuition Purposes

To qualify as a Florida resident for tuition purposes, the student (dependent or independent) must be a U.S. Citizen, permanent resident alien, or a legal alien granted indefinite stay by U.S. Bureau of Citizenship and Immigration Services, and must have established physical and legal residence in Florida for at least one year. Students who do not meet this basic criteria cannot be classified as residents for tuition purposes. It is important to note that living or attending school in Florida is not tantamount to establishing a legal residence for tuition purposes. Maintaining a legal residence in Florida requires substantial physical presence as a condition. Questions regarding residency status upon application and readmission to UWF should be directed to the Office of Undergraduate Admissions. 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

The determination of dependent or independent status is important because it is the basis for whether the student has to submit his or her own documentation of residency (as an independent) or his or her parent's or guardian's documentation of residency (as a dependent). The following definitions are provided in rule:

Independent Student

Evidence that the student meets one of these criteria will be requested by UWF. A student who does not meet one of the criteria outlined below may be classified as an independent student only if he or she submits documentation that he or she provides fifty (50) percent or more of the cost of attendance for independent, in-state students as defined by the Financial Aid Office at UWF (exclusive of federal, state, and institutional aid or scholarships). A student who meets any one of the following criteria shall be classified as an independent student for the determination of residency for tuition purposes:

- The student is 24 years of age or older by the first day of classes of the term for which residency status is sought at a Florida institution
- The student is married
- The student has children who receive more than half of their support from the student
- The student has other dependents who live with and receive more than half of their support from the student
- The student is a veteran of the United States Armed Forces or is currently serving on active duty in the United States Armed Forces for purposes other than training
- Both of the student's parents are deceased or the student is or was (until age 18) a ward/dependent of the court
- The student is working on a master's or doctoral degree during the term for which residency status is sought at a Florida institution
- The student is classified as an independent by the Financial Aid Office

Dependent Student

All other students who do not meet the above definition of an independent student shall be classified as dependent students for the determination of residency for tuition purposes.

Residency Documentation

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

Status

- Documentation of independent status (petitioners required to evidence their independent status will be required to submit a copy of their current IRS return as well as their parents' current IRS return to establish they are not claimed as dependents), OR
- Documentation of dependent status and documentation that your parent, legal guardian (court appointed), or adult relative (resided with for 5 years), has resided in the state of Florida for the previous 12 months with the intent of establishing a permanent home (requires copy of current IRS return from parent, legal guardian or adult relative and the residency statement and supporting documentation submitted will be that of the parent, etc.), OR
- Documentation of being the spouse of someone who has resided in the state of Florida for the previous 12 months with the intent of establishing a permanent home (requires the marriage certificate, the residency statement and supporting documentation of the spouse, plus a photo copy of the student's Florida driver's license, voter registration, or vehicle registration); AND

Residence

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

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

Establishment of Domicile

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

- Florida voter's registration
- Florida driver's license
- A State of Florida identification card
- Florida vehicle registration
- Proof of a permanent home in Florida which is occupied as a primary residence by the individual or by the individual's parent if the individual is a dependent child (e.g., deed, tax receipts)
- Proof of a homestead exemption in Florida
- Florida professional or occupational license
- Florida incorporation
- Declaration of Domicile in Florida
- Proof of permanent full-time employment in Florida for at least 30 hours per week for the 12 consecutive months before classes

begin (e.g., letter on company letterhead from an employer verifying permanent employment)

- Proof of membership in a Florida-based charitable or professional organization
- A document evidencing family ties in Florida
- Proof of reliance upon Florida sources of support
- Any other documentation that supports the student's request for resident status, including, but not limited to, utility bills and proof of 12 consecutive months of payments; a lease agreement and proof of 12 consecutive months of payments; or an official state, federal, or court document evidencing legal ties to Florida

No Contrary Evidence

No contrary evidence establishing or maintaining residence elsewhere.

Special Categories for Temporary Florida Residency

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

Alabama Differential Out-of-State Tuition

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

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

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

Change of Residency Status

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

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

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

purposes. The burden of proof of permanent residence lies with the student.

Financial Aid

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

Information is updated frequently. Visit the Financial Aid Office website (<http://uwf.edu/offices/financial-aid>) for the most current and detailed information.

Applying for Financial Aid

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

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

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

Your professors must confirm your attendance in all courses each semester, prior to aid disbursing.

2015-2016 Estimated Full-Time Undergraduate Student Budget

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

Florida Resident

Student	Tuition	Books/ Supplies	Room/ Board	Transpor	Personal	Total
Commuter	\$6,360	\$1,200	\$3,760	\$1,800	\$2,300	\$15,420
On-Campus	\$6,360	\$1,200	\$9,912	\$1,100	\$2,600	\$21,172
Off-Campus	\$6,360	\$1,200	\$9,912	\$1,800	\$2,600	\$21,872

Non-Florida Resident

Student	Tuition	Books/ Supplies	Room/ Board	Transpor	Personal	Total
Commuter	\$19,260	\$1,200	\$3,760	\$1,800	\$2,300	\$28,320
On-Campus	\$19,260	\$1,200	\$9,912	\$1,100	\$2,600	\$34,072
Off-Campus	\$19,260	\$1,200	\$9,912	\$1,800	\$2,600	\$34,772

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

Undergraduate tuition amount is based on 15 credit hours per semester and 30 credit hours per academic year (an average course load).

Satisfactory Progress Requirements

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

Minimum Cumulative UWF GPA

1 - 29 hours: 1.80

30+ hours: 2.00

Scholarship: 3.00

Minimum Cumulative Completion Ratio

Satisfactory completion means that a student must complete at least 67% of the courses in which they enroll. Transfer hours from previous institutions and repeat coursework are included in the completion ratio.

Maximum Time Limit

180 credit hours is the maximum time limit for an undergraduate student. All coursework taken is included in these totals (transfer hours, repeat coursework, withdrawals, F's, etc.). Maximum Time Limit for a second bachelor's degree is 150% of the program length.

Satisfactory Progress Appeals

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

Reinstatement Policy

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

Grants

Federal Pell Grant

This grant is the primary need-based federal aid program. Repayment is not required. Pell Grants are awarded to undergraduate students working on a first bachelor's degree. Awards are based upon enrollment status.

Federal Supplemental Educational Opportunity Grant (FSEOG)

These grants are awarded to undergraduate students working on a first bachelor's degree with high financial need. Repayment is not required. A student must be receiving Pell Grant to be eligible for FSEOG.

Florida Student Assistance Grant (FSAG)

FSAG is a need-based, state grant awarded to undergraduate Florida residents working on a first bachelor's degree. Repayment is not required. Eligibility is determined by completing the FAFSA. FSAG has a priority deadline of March 1st for the academic year that begins with the fall semester. This grant is subject to availability of funds.

Institutional Grants

Limited funds are available to undergraduate students, working on a first bachelor's degree, who demonstrate financial need. Repayment is not required.

First Generation Matching Grant

This is a need-based, state grant available to a limited number of undergraduate Florida residents who are identified on the FAFSA as a first generation college student. This grant is subject to availability of funds.

Loans

Subsidized and Unsubsidized Federal Direct Loan

A subsidized loan is need-based and accrues no interest while the student is attending school at least half-time. If the student does not qualify for a subsidized loan, an unsubsidized loan will be processed. An unsubsidized loan does accrue interest from the time the loan is disbursed. The student has the option to pay the interest every 90 days or let it capitalize. Students are encouraged to pay the interest, if possible, to avoid additional interest charges. Both loans have a 6-month grace period before repayment begins; the student can repay the loan at any time without penalty. Additional information regarding interest rate, annual, and aggregate limits can be found on the financial aid website (<http://uwf.edu/finaid/loans.cfm>).

Federal Direct Parent (PLUS) Loan

The Parent PLUS loan allows a *parent* to borrow on behalf of his or her dependent, undergraduate children who are enrolled at least half-time (6 semester hours). A PLUS loan may not exceed the cost of education minus other aid awarded. The PLUS application may be obtained from the Financial Aid Office or the financial aid website. Repayment begins within 60 days of the loan being disbursed unless deferred repayment is requested by the parent.

Federal Perkins Loan

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

Scholarships

UWF Scholarships

The Financial Aid Office awards only need-based scholarships. Need-based scholarships require that the student complete a Free Application for Federal Student Aid (FAFSA). Award amounts range up to \$3000 per academic year based on documented need.

The Office of Undergraduate Admissions awards merit-based scholarships to incoming undergraduate students. Additional information is available on the Admission's website (<http://uwf.edu/admissions>). Merit-based funds are awarded to a limited number of incoming full-time students and vary in range. Awards are determined based on the quality of the applicant pool. Some scholarships are renewable and others are one-time awards. Students admitted in advance of the Admissions priority deadline receive first consideration.

Some academic departments also award merit-based funds. Check with your academic department for information about any scholarships that might be available.

Florida Bright Futures

This merit-based scholarship is for Florida residents who graduate from a Florida high school. The value of these scholarships is determined by the State of Florida. Eligibility is determined at the high school level based on curriculum, grades, test scores, and community service. Contact your high school guidance counselor to determine your eligibility.

Student Employment

Federal Work-Study (FWS)

FWS is a need-based federal aid program where a student is assigned an on-campus job. A small percentage of FWS funds are allocated to off-campus, non-profit community service organizations. Awards are available to a limited number of undergraduate students enrolled at least half-time (6 hours) working on a first degree. The average award is 15 hours per week at \$8.05 per hour. Students are paid every two weeks based upon the number of hours worked during that period.

On Campus Student Employment (OPS)

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

Off-Campus Part-Time Employment

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

Military and Veterans' Information

Military Personnel

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

Servicemembers Opportunity Colleges

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

Veterans' Benefits

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

Yellow Ribbon

The University of West Florida is an approved participating Yellow Ribbon Institution for the **2015-2016** catalog year. The Yellow Ribbon program is designed to help non-Florida residents cover the cost of their education that exceeds the in-state tuition and fees. It is only available to those individuals eligible for the maximum benefit rate (100%) of the Post 9/11 GI Bill (Chapter 33). It will be granted to the first 250 qualified students on a first-come, first-served basis.

To receive educational benefits from the DVA, the student must be pursuing an approved bachelor's or higher level degree, or be enrolled in a VA authorized certificate program at the University. 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 required classes are being taken. Failure to do so may prohibit certification of classes for future semesters. Students who do not have an on-line degree audit must submit a signed program description sheet.

Tuition Deferment

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

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

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

Semester (Year)	1 Term	2 Term	3 Term	4 Term
Fall 2015	Nov 21	Sep 22	Nov 12	
Spring 2016	Apr 4	Feb 4	Apr 29	
Summer 2016	Jun 7	Jun 7	Jul 22	Jul 7

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

A veteran may request a deferment (promissory note) via their VA Enrollment Certification Form found in their MyUWF account (<https://my.uwf.edu>) or at the MVRC for the amount of tuition and fees. The MVRC will submit the approved promissory note to the University Cashier prior to the fee payment deadline. Failure to make payment by the deferment due date will result in a \$100 late payment fee. Students who do not make payment or request a deferment may be deleted for non-payment. Students who are deleted for non-payment may appeal for reinstatement and will be assessed a \$200 reinstatement fee.

Any change in a VA deferment to a National Guard or other military billing status after the fee payment deadline will result in the assessment of the late payment fee of \$100.00.

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

Academic Progress

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

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

VA Academic Probation

The intent of academic probation is to serve formal notice that a student may not be making satisfactory progress which can result in loss of VA educational benefits. Placing students on VA Academic Probation provides students notification of their need for immediate attention to academic improvement. Students whose cumulative grade point average (GPA) for University of West Florida course work is below the minimum listed below will be placed on VA academic probation by the UWF VA Certifying Official. Calculation of the GPA is described in the grading system section of this catalog.

Minimum GPA required for academic standing:

- 0-15 semester hours, less than 1.60 cumulative GPA
- 16-30 semester hours, less than 1.80 cumulative GPA
- more than 30 semester hours, less than 2.00* cumulative GPA

VA Academic Suspension

A student with more than 30 semester hours, with consecutive semesters of cumulative GPAs below a 2.0*, will be placed on VA academic suspension.

VA Academic suspension will remove the students VA educational benefits until the following action is completed:

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

VA Termination

A student's VA benefits will be terminated if the student's cumulative GPA remains less than a 2.0* for three consecutive semesters. The MVRC will notify the DVA of unsatisfactory progress and educational benefits will be terminated.

*** 2.5 for those programs requiring a minimum cumulative GPA of 2.5.**

Advance Payment

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

Reporting Requirements

Re-certification of benefits is not automatic and must be requested each semester by students via the VA Enrollment Certification Form found in their MyUWF account. It is the responsibility of each student to keep the Military and Veteran's Resource Center (MVRC) informed of the following: To prevent overpayment and subsequent indebtedness to the Federal Government, notify the MVRC immediately of any changes that may affect the student's eligibility for benefits.

Class Registration

After registering for classes, eligible students should request VA certification via the VA Enrollment Certification Form found in their MyUWF account. Students who don't have a MyUWF account should print the VA Enrollment Certification Form (http://uwf.edu/militaryveterans/documents/VA_interview_enrollment_certification_form_3_12.pdf) found on the UWF MVRC website (<http://uwf.edu/militaryveterans>). For questions, students may visit or email the UWF Military and Veterans Resource Center (mvrc@uwf.edu) for information and help. The earlier a student registers and provides the registration information to the MVRC, the earlier certification paperwork can be forwarded to the DVA.

Changes to Schedule

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

Class Attendance

Routine class attendance is required for those receiving DVA benefits. It is the student's responsibility to inform the instructor(s) 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 UWF Military and Veteran's Resource Center. The 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 DVA benefits receives a grade of NF, the DVA will be notified and benefits may be reduced accordingly.

Change of Address

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

Courses Not Eligible for Benefits

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

- Courses not on the student's degree audit or Program Description Sheet (PDS), unless an addendum is provided before the last day of the drop/add period;
- Repeated courses that have been previously completed with a grade of "D-" or higher unless the student's program requires a higher grade; this includes courses transferred from other colleges;
- Courses taken to fulfill requirements at another institution unless a transient authorization is received;

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

Certificate Programs

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

Part of Term Courses

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

Semester (Year)	1 Term	2 Term	3 Term	4 Term
Fall 2015	8/24-12/12	8/24-10/9	10/14-12/04	
Spring 2016	1/05-4/30	1/05-02/22	02/29-4/22	
Summer 2016	05/09-08/05	05/09-06/21	06/23-08/05	

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

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

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

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

Online Campus

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

Online Campus Programs

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

Out-of-State Tuition Waivers

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

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

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

Notes:

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

Online Campus Fee

An online campus fee will be assessed each semester to students participating in fully online courses and mobile device delivered

courses. This fee covers the cost of supporting and improving Online Campus offerings and services.

Online Campus Student Support

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

Military Education Advising

Military students seeking general information about specific distance learning programs and certificates should contact the Online Campus Coordinator for assistance via email at online@uwf.edu. Military students seeking assistance with overall admission and enrollment planning aligning to SOC criteria along with the military students' transcripts, including school house training aligned to ACE criteria, other institutional credits, etc. should contact the Military Education Advisor via email at militaryadvisor@uwf.edu.

Frequently Used Services

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

Help Desk

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

UWF Library

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

Student Responsibility

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

Public Service and Research Centers

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

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

Student Involvement

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

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

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

Intercollegiate Athletics

The intercollegiate athletic program comprises competitive teams in fifteen sports: men's teams in baseball, basketball, cross country, football (to debut Fall 2016), golf, soccer, and tennis; and women's teams in basketball, cross country, golf, soccer, softball, swimming & diving, tennis, and volleyball. Additional information may be found at GoArgos.com (<http://GoArgos.com>).

The Argonauts compete in the National Collegiate Athletic Association (NCAA) Division II and the Gulf South Conference (GSC). Championship playoff opportunities are provided in each sport. Each team plays a full schedule of competition with schools throughout the southeastern United States. The Argonauts have won 84 total GSC championships, including a record 8 conference championships in the 2013-14 season. The Argonauts have won eight national championships.

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

Title IX of the Education Amendments of 1972

Title IX of the Education Amendments of 1972 prohibits discrimination based on sex and/or gender in federally funded programs or activities. The University of West Florida does not discriminate on the basis of sex and/or gender in its educational programs or activities. The University's policies related to Title IX are the Sexual Misconduct

and Gender-Based Discrimination Policy (P-14.01-11/13) and the University Policy Prohibiting Discrimination, Harassment and Retaliation (P-13.03 -05/10).

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

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

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

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

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

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

Additional Information about Title IX can be obtained from the Office for Civil Rights (OCR), Department of Education. OCR's contact information is available through:
<http://www.hhs.gov/ocr/office/about/index.html> or 1-800-421-3481

Student Services and Resources

ArgoAlert – Emergency Notification System

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

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

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

Bookstore

UWF Bookstore – The Official University Bookstore

In addition to stocking new, used, rental, and digital course materials, the bookstore offers a substantial selection of general books, best sellers, study aids, computers, academically priced computer software, art supplies, emblematic gifts and Argo gear, class rings, graduation announcements, residence hall supplies, personal and food items, and other necessities. The bookstore offers many additional services including special orders for books, graduation apparel rentals, year-round book buy-back, and a price matching program. The bookstore accepts all major credit cards, the Nautilus Card, cash, and personal checks. For more information, visit the website at [uwf.shop.com](http://www.uwfshop.com). (http://www.bkstr.com/westfloridastore/home/en?cm_mmc=Redirect_-_VanityURL_-_uwfshop.com_-_10759)

BookNow+

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

Rental Books

When a student rents their books, they pay, on average, less than half the new book price. Rental books must be returned by the due date at the end of the term.

Bookstore Deferment Program

If a student plans to use their financial aid award to help pay for their course materials, the UWF Bookstore has a "Deferment Program" that will allow them to purchase their books before financial aid is disbursed. Deferment is an estimated amount of excess financial aid funds based on how much is left over after tuition, fees, housing, and mandatory meal plans are paid. The best way to find out if you have excess money, and how much, is to access MyUWF and search for "Account Balance fees." If a student has excess funds, they can spend up to \$800 at the UWF Bookstore. The Bookstore will have a record of the amount that is available and will ask the student to sign a receipt giving them permission to be reimbursed when their financial aid is disbursed.

Career Services

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

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

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

Cooperative Education

Cooperative Education (CoOp) allows students to gain professionally relevant work experiences that complement their academic studies. Through alternating or paralleling models of study and paid work experience in their intended fields, students in the Cooperative Education Program have an opportunity to professionally explore and apply principles acquired in the classroom. Cooperative Education is always paid, always for credit, and always a multiple semester experience. Cooperative Education is a partnership among employers,

students, and the University focused on professional practice and vocational exploration. Vocational exploration confirms academic and career objectives, enhances the development of self-confidence, and develops professional skills in human relations. Courses assume greater meaning, employment options increase, and educational expenses are partially offset. The student may join an employer in industry, government, or social agencies.

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

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

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

Child Care

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

and opportunities for research, internships, and supervised teaching experiences for University students. Visit the website at uwf.edu/childdev.

Copy Services

Most copiers on campus are equipped with Nautilus Card readers. Money may be added to your Nautilus Card at any Automatic Deposit Machine (ADM) with cash, at the Commons Service Desk with cash or check, or online via MyUWF, Meal Plan Purchases & Nautilus Card Deposits app. Copies made with a personal Nautilus Card cost 8 cents. 11"x17" copies count as two copies. Student copiers are located in the Pace Library, Professional Studies Library, Commons Cyberlab, and the Science and Engineering Building. There is a color copier available for student use on the first floor of the Pace Library and it will copy sizes up to 11"x17". All copiers have a scan function. Documents may be printed from a USB (tif or jpg only) or saved to a USB (tif, jpg, or PDF). For additional information, call the Auxiliary Services Office at (850) 474-3012 or visit uwf.edu/copyserv/internal/students.cfm (<http://uwf.edu/copyserv/internal/students.cfm>).

Counseling and Wellness

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

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

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

Dining Services

Dining Services locations on campus are as follows:

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

Pace Library: "We Proudly Serve" Starbucks. Also offerings G. S. Gelato.

HLES Facility: Terra Juice

College of Professional Studies Building, Building 86: Sub Generation

Science and Engineering Building, Building 4: Outtakes

College of Business Building, Building 76A: Switz Cafe

Presidents Hall: Papa Johns Pizza/Outtakes

Outdoor Cafe: Bistro Blue food truck (located between buildings 12 and 18)

All dining locations accept cash, credit cards, and the Nautilus Card. Meal plans may only be used in the Nautilus Market. First-time-in-college (FTIC) students living in University housing are required to participate in the mandatory meal plan their first two semesters on campus (summer residence not included). Mandatory participants may choose the 12 Meal Plan or the 15 meal plan. You may upgrade or downgrade between the 12 or 15 meal plans during the first two weeks after the start of classes or after the date you purchased your plan, whichever is later. The second semester, the plan will default to the plan you had at the beginning of the first semester. Savings on meal costs are available to resident and non-resident students with Meal/Block Plans. There are many meal and block plans from which to choose. Catering services for special functions are also available. Detailed information about campus dining may be obtained from the UWF Dining Services Office or by visiting dineoncampus.com/uwf (<http://www.dineoncampus.com/uwf>) and on Facebook and Twitter as UWF Dining (<http://www.facebook.com/UWFDining>).

Disability Services for Students

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

Emergency Management

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

Campus Escort Service

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

Health Services

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

Thursday from 9 a.m. - 5 p.m. Appointments can be made in person or by calling (850) 474-2172.

Housing and Residence Life

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

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

ID/Nautilus Card

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

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

Information Technology Services

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

ArgoNet Account

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

MyUWF

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

UWF Email

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

eLearning

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

ArgoAir Wireless Network

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

Campus Computer Labs

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

eDesktop Virtual Computer Lab

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

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

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

Protect Your PC

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

ITS Help Desk

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

Libraries

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

Pensacola Campus/John C. Pace Library

The John C. Pace Library houses more than 858,102 volumes, over 1.7 million microform pieces, 170,000 e-books, over 6,715 print and electronic serials subscriptions and has access to online articles from over 50,000 serials. The library is also a regional depository for U.S. and Florida government publications. The Special Collections unit contains over one million unique items relating to Pensacola and to the historic West Florida region.

Emerald Coast Campus Library

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

Parking Services

All students and employees who park on University property are required to register their vehicles and purchase a parking permit online via MyUWF, (<https://my.uwf.edu>) Parking Permits, Citations, and Appeals app. Permit enforcement begins the first day of class each term. Students should ensure that a current valid permit is properly displayed on their vehicle.

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

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

Trolley Service

Three Trolleys serve the UWF campus during the Fall and Spring semesters, Monday through Thursday. On Friday, two Trolleys serve the campus with service ending at 4:15 p.m. On Saturdays, one Trolley serves the campus, with service ending at 4:05 p.m. There are 20 official Trolley stops on campus, but the Trolley will stop when hailed. A Trolley schedule can be found on the Parking Services website (<http://uwf.edu/parking>). The Trolley route includes one off campus stop at the University Town Center Shopping area (Target/Publix on Nine Mile Road).

City Bus Service (ECAT)

Escambia County Area Transit (ECAT) buses run on campus Monday through Saturday each week. Registered students may receive two free bus passes each day by visiting Auxilliary Services (bldg 20W) or Parking Services (building 91) and showing their Nautilus Card. For route details, visit <https://goecat.com/routes-maps/> and click on *Route 43*. There are three stops on the UWF campus.

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

Postal Services

The University operates a full-service post office housed in the University Commons. Postal services include student mailboxes

(offered free of charge to students living in University housing), money orders, stamp sales, overnight Express Mail, Priority and First-Class mail, media mail, 11 campus mail drops, package mailing and delivery services, and address changes. For additional information, contact Postal Services at (850) 474-2436 or visit the website at uwf.edu/postal/.

Student Printing

Student printing services are offered via 25 kiosks on the Pensacola campus and 1 on the Fort Walton Beach campus in the library. There are five ways to get your document to a WEPA printer: web upload, WEPA print app, email to print, mobile app (iOS and Android) and USB drive. The kiosks accept most PC and MAC files. Prints are 8.5"x11" and may be color or black/white, simplex or duplex. Your WEPA user name and password are your UWF email address and ArgoNet password. For additional information, contact the Nautilus Card office at (850) 474-3324 or visit uwf.edu/studentprinting.

Recreation and Sports Services

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

The Fitness Center

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

Intramural Sports

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

The Sport Clubs Program

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

The Outdoor Adventure Program

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

The University Aquatic Center

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

Facility Operations

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

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

Skills Improvement Centers

The Mathematics and Statistics Tutoring Laboratory

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

The UWF Writing Lab

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

Student Ombudsperson

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

The UWF Student Ombudsman CAN ASSIST students by:

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

The UWF Student Ombudsman DOES NOT:

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

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

Student Advocate

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

21st Century Scholars

21st Century Scholars is responsible for the administration of programs designed to increase recruitment, retention and graduation rates of participating students. 21st Century Scholars provide academic support services for students enrolled at the University. For more information, contact 21st Century Scholars located in Building 52 or call (850) 474-3266, or visit uwf.edu/offices/21st-century-scholars/.

Academic Center for Excellence

The Academic Center for Excellence (ACE) provides free tutorial assistance and academic support services to all students, including distance learners enrolled at the University of West Florida. The Learning Center is located in Building 52, Room 151. Please contact (850) 474-3176 or visit uwf.edu/offices/21st-century-scholars/ace/about-ace/.

TRiO/Student Support Services Program

Student Support Services Program (SSS) is a federally-funded TRiO program which provides academic support for eligible undergraduate students. Services include: tutoring, intrusive advising, career planning, cultural and social activities, and academic intervention. The TRiO/SSS serves low income, first generation students and disabled students. For more information, contact Student Support Services located in Building 52, Room 149 or call (850) 474 3266, or visit uwf.edu/offices/21st-century-scholars/ace/about-ace/.

Testing

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

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

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

University Police

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

Campus Sex Crime Prevention Act

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

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

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

Vending Services/Beverage Rights

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

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

Voter Registration

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

Undergraduate Degrees, Specializations, and Minors

For information on Master's, Specialist, and Doctoral Degrees, see the Graduate Catalog.

UWF awards the following Undergraduate Degrees:

Associate of Arts (A.A.) Degree Specializations

General (p. 285)

Bachelor's Degrees

B.A. - Bachelor of Arts

B.F.A. - Bachelor of Fine Arts

B.M. - Bachelor of Music

B.M.E. - Bachelor of Music Education

B.S. - Bachelor of Science

B.S.B.A. - Bachelor of Science in Business Administration

B.S.C.E. - Bachelor of Science in Computer Engineering

B.S.E.E. - Bachelor of Science in Electrical Engineering

B.S.N. - Bachelor of Science in Nursing*

B.S.W. - Bachelor of Social Work

- Accounting, B.S.B.A. (p. 71)
- Anthropology, B.A. (p. 74)
 - Archaeology
 - Biological Anthropology
 - Cultural Anthropology
 - General Anthropology
- Art, B.A. (p. 80)
 - Art History
 - Studio Art
- Arts, Fine, B.F.A. (p. 175)
 - Art
 - Digital Art
 - Graphic Design
- Athletic Training, B.S. (p. 83)*
- Biology, B.S. (p. 86)
 - General Biology
 - Pre-Professional
- Business, General B.S.B.A. (p. 91)
- Career & Technical Education, B.S. (p. 94)
 - Workforce and Professional Studies
- Chemistry, B.A. (p. 97). & Chemistry, B.S. (p. 103)
 - Chemistry
 - Chemistry/Biochemistry
- Clinical Laboratory Sciences, B.S. (p. 108)*
- Communication Arts, B.A. (p. 111)
 - Advertising
 - Journalism
- Communication
- Public Relations
- Telecommunication & Film
- Community Health Education, B.S. (p. 116)
- Computer Engineering, B.S.C.E. (p. 119)
- Computing and Information Sciences, B.S. (p. 123)
 - Computer Information Systems
 - Computer Science
 - Cybersecurity
 - Software Engineering
- Criminal Justice, B.A. (p. 133)**
- Economics, B.A. (p. 136)
- Economics (Business), B.S.B.A. (p. 139)
 - Comprehensive Economics
 - Global Economics
- Education, Elementary, B.A. (p. 147)
 - Elementary Education Certification
- Education, (p. 166) Exceptional Student, (p. 166) B.A. (p. 166)
 - Exceptional Student Education Certification
- Education, Music, B.M.E. (p. 235)
- Electrical Engineering, B.S.E.E. (p. 143)
- Engineering Technology, B.S. (p. 151)
 - Building Construction
 - Information Engineering Technology
- English, B.A. (p. 156)
 - English/Liberal Arts
 - English/Writing
- Environmental Science, B.S. (p. 160)
 - Environmental Management
 - Natural Science
- Finance, B.S.B.A. (p. 170)
- Health, Leisure & Exercise Science, B.S. (p. 179)
 - Exercise Science
 - Fitness and Conditioning
 - Physical Education/Teacher Education
 - Sport Management
- Health Sciences, B.S. (p. 189)
 - Allied Health
 - Health Care Administration
 - Health Care Professional
 - Public Health
- History, B.A. (p. 193)
 - History
- Hospitality, Recreation, & Resort Management, B.S. (p. 196)
- Humanities, Interdisciplinary, B.A. (p. 199)
 - Arts Administration
 - Women's and Gender Studies
- Information Technology, B.S. (p. 202)
 - Digital Enterprise
 - Information Technology
 - Network Systems Operations

- International Studies, B.A. (p. 205)
- Legal Studies, B.A. (p. 208)
- Management, B.S.B.A. (p. 211)
- Management Information Systems, B.S.B.A. (p. 215)
- Marine Biology, B.S. (p. 219)
- Maritime Studies, B.A. (p. 222)
- Marketing, B.S.B.A. (p. 225)
 - Comprehensive Marketing
 - Global Marketing
 - Sales Management
- Mathematics, B.S. (p. 229)
- Music, B.M. (p. 232)
 - Music Performance
- Nursing, B.S.N.*
 - B.S.N. (p. 238)
 - R.N./B.S.N. (p. 241)
- Philosophy, B.A. (p. 244)
- Physics, B.S. (p. 247)
 - Engineering Physics
 - Physics
- Political Science, B.A. (p. 250)
 - Political Science
 - Pre-Law
- Psychology, B.A. (p. 255)
- Sciences, Interdisciplinary, B.S. (p. 263)
 - Pre-Pharmacy
 - Zoo Science
- Social Sciences, Interdisciplinary, B.A. (p. 269)
 - Children and Society
 - Teaching and Learning
- Social Work, B.S.W. (p. 272)
- Supply Chain Logistics Management, B.S.B.A. (p. 276)
- Theatre, B.A. & (p. 280) Theatre, B.F.A. (p. 283)
- Chemistry (p. 97)
- Child Welfare (p. 272)
- Community Health Promotion (p. 116)
- Computer Engineering (p. 119)
- Computer Information Systems (p. 123)
- Computer Science (p. 123)
- Criminal Justice (p. 133)
- e-Business (p. 215)
- Economic Policy (p. 136)
- Education, Early Childhood (p. 147)
- Education, Professional (p. 254)
- Electrical Engineering (p. 143)
- English (p. 156)
- Environmental Science (p. 160)
- Exceptional Student Education (p. 166)
- Finance (p. 170)
- Forensic Studies (p. 133)
- General Communication (p. 111)
- Geography (p. 160)
- History (p. 193)
- Hospitality, Recreation, & Resort Management (p. 196)
- International Studies (p. 205)
- Information Technology (p. 123)
- Juvenile Justice (p. 133)
- Latin American Studies (p. 74)
- Leadership Communication (p. 111)
- Management (p. 211)
- Management Information Systems (p. 215)
- Maritime Studies (p. 222)
- Marketing (p. 225)
- Marketing Applications (p. 225)
- Mathematics (p. 229)
- Military Science (ROTC students only) (p. 260)
- Music (p. 232)
- Philosophy (p. 244)
- Physics (p. 247)
- Political Science (p. 250)
- Pre-Law/History (p. 193)
- Pre-Law/Legal Studies (p. 208)
- Pre-Law/Political Science (p. 250)
- Psychology (p. 255)
- Public Administration (p. 259)
- Quantitative Economics (p. 136)
- Social Welfare (p. 272)
- Sociology (p. 74)
- Spanish (p. 156)
- Sport and Exercise Psychology (p. 255)
- Substance Abuse (p. 272)
- Theatre (p. 280)
- Women's Studies (p. 199)

* Limited Access programs

** Accelerated Bachelor to Master's program option available

Special Programs

- Teacher Education Programs (p. 279)
- Reserve Officers Training Corps (ROTC)
 - Air Force (p. 262)
 - Army (p. 260)

Minors

- Accounting (p. 73)
- Africana Studies (p. 77)
- Aging Studies Interdisciplinary (p. 272)
- Anthropology (p. 74)
- Art (p. 80)
- Biology (p. 86)
- Building Construction (p. 151)
- Business (p. 225)
- Business Economics (p. 139)
- Business Intelligence (p. 215)

Majors Available at the Emerald Coast Campuses

BACHELOR'S DEGREES

- Accounting, B.S.B.A.*
- Business, General, B.S.B.A
- Computer Engineering, B.S.C.E.
- Criminal Justice, B.A.
- Electrical Engineering, B.S.E.E
- Hospitality, Recreation, & Resort Management, B.S.*
- Management, B.S.B.A.
- Social Sciences, Interdisciplinary, B.A.
 - Children and Society

**Students who wish to pursue their degree full time will have to take classes periodically in Pensacola.*

Majors Available at the UWF Online Campus

BACHELOR'S DEGREES**

- Career & Technical Education, B.S.
 - Workforce and Program Development
- Engineering Technology, B.S.
 - Information Engineering Technology
- Exceptional Student Education, B.A.
- Health Sciences, B.S.
- Information Technology, Interdisciplinary, B.S.
 - Network Systems Operations
- Maritime Studies, B.A.
- Nursing, R.N. to B.S.N.

*** Required upper division courses available online. Students may need to complete some lower division courses at another regionally accredited institution.*

Undergraduate Certificate Programs

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

- Arabic Language and Culture (p. 79)
- Business Intelligence (p. 215)
- Career and Technical Education Program (p. 96)
- Children's Services (p. 275)
- Cybersecurity (p. 131)
- Database Systems (p. 131)
- Financial Institutions Certificate Level 1 (p. 172)
- Financial Institutions Certificate Level 2 (p. 172)
- Geographic Information Science (p. 164)
- Geospatial Computing (p. 165)
- Human Resources (p. 257)
- Human Resources Management (p. 213)
- Information Security Management (p. 217)
- Intelligence Analysis Certificate (p. 154)
- Leadership Communication (p. 115)
- Management Development (p. 213)
- Marketing Technology (p. 228)
- Microsoft Certified Systems Administration (p. 231)
- Public Health: Occupational Safety and Health (p.)
- Public, Technical and Workplace Writing (p. 156)
- Sales Management (p. 228)
- Small Business Management/Entrepreneurship (p. 213)
- Supply Chain Logistics (p. 276)
- Technology Systems Support (p. 155)
- Web Development Technologies (p. 132)

Accounting

The B.S.B.A. in Accounting is an included program in the University's accreditation by AACSB International.

The B.S.B.A. in Accounting is designed to provide students with basic conceptual accounting and business knowledge as a foundation for career development. The Accounting Specialization also provides the traditional background in accounting and is the first step towards state designation as a Certified Public Accountant (CPA).

Program Requirements

In addition to the university's general requirements, students seeking the B.S.B.A. in Accounting must meet the requirements listed below.

Students should consult their academic advisors for courses which may satisfy both the General Education requirements and Common Prerequisites.

A minimum course grade of "C" is required in all COB prerequisites and courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 71)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 71)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 71)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 71)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 71)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 71)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Accounting majors should take the following courses to satisfy components of the General Education curriculum:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social Sciences		3
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	3-12
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Upper Division

College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Accounting Specialization

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
TAX 4001	Tax Accounting +	3
ACG 4501	Governmental and Non-Profit Accounting +	3
or TAX 4012	Corporate Income Tax	
	3000/4000 level advisor-approved elective +	3
ACG 3180	Financial Statement Analysis	
ACG 4174	Special Topics in Accounting	
ACG 4682	Forensic Accounting	
ACG 4941	Accounting Internship	
TAX 4012	Corporate Income Tax	
Total Hours		30

+ Courses included in the major GPA

Minors

A grade of "C" or higher is required for all courses in the minors.

Accounting

The Minor in Accounting exposes students to all functional areas of accounting and is primarily designed for COB students in majors other than Accounting.

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 4651	Auditing	3
TAX 4001	Tax Accounting	3
or TAX 3021	Tax For Decision Makers	
Students who have not completed the COB core will need to complete the following prerequisite courses:		0-21
ACG 2021	Principles of Financial Accounting	
ACG 2071	Principles of Managerial Accounting	
CGS 2570	Personal Computer Applications	
ECO 3003	Principles of Economic Theory and Public Policy	
FIN 3403	Managerial Finance	
MAC 1105	College Algebra	
STA 2023	Elements of Statistics	
Total Hours		18-39

Anthropology

The B.A. in Anthropology provides a broad base of information about human culture and what makes humans unique. Culture is the totality of what humans learn and the basis for how humans define the world. Anthropologists study all kinds of individual cultures, both living and dead and simple and complex, in order to gain an understanding of culture as a human phenomenon. The very nature of anthropology is multicultural and historical. This program is hands-on, and students regularly participate in faculty-directed research projects in the Pensacola area. Senior internships and cooperative programs with private firms and government agencies also provide on-the-job training and can lead to employment. The B.A. in Anthropology is a springboard to a wide range of jobs in the private or government sectors, as well as continuing one's academic career after graduation.

Program Requirements

In addition to the university's general requirements and General Education requirements, students seeking the B.A. in Anthropology must meet the requirements listed below.

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

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 74)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 74)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 74)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 74)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 74)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 74)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

The department recommends that specific General Education requirements be met as follows:

Behavioral component

ANT 2000	Introduction to Anthropology
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Science component

ANT 2511+L	Biological Anthropology (+Lab)
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One of the following:

BSC 1005+L	General Biology for Non-Majors (+Lab)
BOT 2010+L	General Botany (+Lab)

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

Lower Division Anthropology (ANT) Courses *	6
Total Hours	6

* The department recommends that the requirement be met with ANT 2000 Introduction to Anthropology and ANT 2511 Biological Anthropology/ANT 2511L Biological Anthropology Lab (excess one hour may be used as elective).

Lower Division Electives

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	18-24
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Recommend that these courses be taken as electives:

Foreign language courses	8-14
Total Hours	8-14

General Anthropology Specialization

Major

ANT 3101	Principles of Archaeology +	3
ANT 3212	Peoples and Cultures of the World +	3
ANT 3610	Language and Culture +	3
ANT 4191C	Archaeological Data Analysis +	3
3000/4000 level Anthropology course in Biological Anthropology +		3
Two 3000/4000 level courses in Anthropology +		6
Choose one of the following:		3
ANT 4034	History of Anthropology +	
ANT 4115	Method and Theory in Archaeology +	
Choose one of the following:		3-4
ANT 4182C	Conservation of Archaeological Materials +	
ANT 4808	Applied Anthropology +	
ANT 4824	Terrestrial Archaeological Field Methods +	
ANT 4835	Maritime Archaeological Field Methods +	
Choose one of the following:		3
ANT 3153	North American Archaeology +	
ANT 3158	Florida Archaeology +	
ANT 3312	North American Indians +	
ANT 3363	Japanese Culture +	
ANT 4155	Archaeology of the Southeastern United States	
If not completed at the lower division:		0-7
ANT 2000	Introduction to Anthropology	
ANT 2511+L	Biological Anthropology (+Lab)	
Total Hours		30-38

+ Courses included in the major GPA

Major-Related

Choose one of the following:		3
ENC 3240	Technical Writing	
ENC 3250	Professional Writing	
CGS 3853	Web Page Design	3
If not completed at the lower division:		0-3

CGS 2570	Personal Computer Applications	
Total Hours		6-9

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.		13-24
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Total Hours		13-24
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Archaeology Specialization

The Archaeology Specialization prepares students for graduate study in anthropology-archaeology and employment in cultural resource management in both the private sector and government agencies. The program includes both terrestrial and shipwreck archaeology. There are several archaeologists in the department and at the Archaeology Institute who teach and do research with students. There are almost continuously active faculty-directed archaeology research projects and contracts in which students get hands-on experience in the Pensacola area and surrounding regions. Senior internships with regional and national employers and research institutes provide valuable and practical on-the-job training.

Major

ANT 3101	Principles of Archaeology ⁺	3
ANT 3212	Peoples and Cultures of the World ⁺	3
ANT 4034	History of Anthropology ⁺	3
ANT 4115	Method and Theory in Archaeology ⁺	3
ANT 4172	Historical Archaeology ⁺	3
ANT 4180L	Laboratory Methods in Archaeology ⁺	3
ANT 4190	Historic Preservation in Archaeology ⁺	3
ANT 4191C	Archaeological Data Analysis ⁺	3
ANT 4525	Human Osteology ⁺	4
ANT 4525L	Human Osteology Lab ⁺	0
3000/4000 level Anthropology courses ⁺		3-10
Choose one of the following:		3
ANT 3153	North American Archaeology ⁺	
ANT 3158	Florida Archaeology ⁺	
ANT 4155	Archaeology of the Southeastern United States ⁺	
Choose one of the following:		9
ANT 4121	Combined Archaeological Field Methods ⁺	
ANT 4824	Terrestrial Archaeological Field Methods ⁺	
ANT 4835	Maritime Archaeological Field Methods ⁺	
If not completed at the lower division:		0-7
ANT 2000	Introduction to Anthropology	
ANT 2511+L	Biological Anthropology (+Lab)	
Total Hours		43-57

⁺ Courses included in the major GPA

Major-Related

ENC 3240	Technical Writing	3
If not completed at the lower division:		0-3
STA 2023	Elements of Statistics	
Total Hours		3-6

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 sh in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours		0-14
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Biological Anthropology Specialization

The Biological Anthropology Specialization prepares students for graduate study in Biological and/or Forensic Anthropology and employment in law enforcement and cultural resource management in both the private sector and government agencies. The program offers students the opportunity to gain hands-on experience analyzing human skeletal remains from both archaeological and forensic contexts through faculty-directed research projects and consultations with Escambia County Medical Examiner's Office and Florida Department of Law Enforcement. Senior internships with regional and national employers and research institutes provide valuable and practical on-the-job training.

Major

ANT 3101	Principles of Archaeology ⁺	3
ANT 3212	Peoples and Cultures of the World ⁺	3
ANT 4525	Human Osteology ⁺	4
ANT 4525L	Human Osteology Lab ⁺	0
ANT 4516	Modern Human Physical Variation ⁺	3
ANT 4550	Primateology ⁺	3
ANT 4586	Human Origins ⁺	3
3000/4000 level advisor-approved Anthropology courses ⁺		6-9
Choose one of the following:		3
ANT 4034	History of Anthropology ⁺	
ANT 4115	Method and Theory in Archaeology ⁺	
Choose one of the following:		3-9
ANT 4523	Field Methods in Forensic Anthropology ⁺	
ANT 4824	Terrestrial Archaeological Field Methods ⁺	
Advisor approved field methods course		
If not completed at the lower division:		0-7
ANT 2000	Introduction to Anthropology	
ANT 2511	Biological Anthropology	
ANT 2511L	Biological Anthropology Lab	
Total Hours		31-47

Major-Related

ENC 3240	Technical Writing	3
STA 4173	Biostatistics ⁺	3
Total Hours		6

⁺ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater. Focus through minors and advanced language work are encouraged.

Total Hours		7-25
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Cultural Anthropology Specialization

Major

ANT 3101	Principles of Archaeology ⁺	3
ANT 3212	Peoples and Cultures of the World ⁺	3
ANT 3403	Cultural Ecology ⁺	3
ANT 3610	Language and Culture ⁺	3
ANT 4034	History of Anthropology ⁺	3
ANT 4651	Aesthetics & Critical Theory ⁺	3
ANT 4808	Applied Anthropology ⁺	3
3000/4000 level advisor-approved Anthropology course in Archeology ⁺		3
3000/4000 level advisor-approved Anthropology course in Biological Anthropology ⁺		3
Choose one of the following:		3
ANT 4944	Anthropology Internship ⁺	
Other approved field work course		
Choose one of the following:		3
ANT 3312	North American Indians ⁺	
Other approved area course		
If not completed at the lower division:		0-7
ANT 2000	Introduction to Anthropology	
ANT 2511+L	Biological Anthropology (+Lab)	
Total Hours		33-40

⁺ Courses included in the major GPA

Major-Related

3000/4000 level advisor approved electives outside Anthropology		9
Choose one of the following:		3
CRW 4211	Creative Non-Fiction	
ENC 3240	Technical Writing	
JOU 4308	Magazine Writing	
Total Hours		12

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	8-15
Total Hours	8-15

Students with upper division flexibility are encouraged to pursue additional focus through advanced language study, including language courses taught outside the United States; acquisition of statistical tools; directed, individual field work, or international study.

Minors

Africana Studies

The Africana Studies minor is an interdisciplinary program. This minor is available to all students.

Choose four of the following:		12
AMH 4575	Civil Rights	
AML 3624	Black Women Writers	
ANT 3352	African Cultures	
ANT 3610	Language and Culture	
ANT 4451	Race, Ethnicity, and Culture	
ANT 4535	Race in Biological Anthropology	
INP 4224	Psychology of Workforce Diversity	
PLA 3020	Law and Society	

SYO 4530	Inequality in America	
Total Hours		12

Anthropology

A grade of "C" or higher is required in all Anthropology courses. Anthropology majors may not earn this minor.

ANT 2511+L	Biological Anthropology (+Lab)	4
ANT 3101	Principles of Archaeology	3
ANT 3212	Peoples and Cultures of the World	3
3000/4000 level Anthropology courses		9
Total Hours		19

Latin American Studies

The Latin American Studies minor is designed to provide students with a multidisciplinary background in the themes and topics of most concern in Latin American Studies. All courses in the minor must be completed with a grade of "C" or better. This minor is available to all students.

Students must demonstrate competence in Spanish language skills by completing one of the following courses or equivalent.

Choose one of the following:		3
SPN 2200	Intermediate Reading and Translation	
SPN 2210	Intermediate Composition & Conversation	

Students must take one course from five of the six disciplines listed below. One course may be substituted with an approved relevant field experience taken for 3 sh credit.

Anthropology	
ANT 4332	Cultures of Latin America
ANT 4321	Cultures of Mexico
ANT 4322	Mesoamerican Cultural Traditions
Fine and Performing Arts	
ARH 4652	Art and Archaeology of the Ancient Andes
ARH 4653	Art and Archaeology of Mesoamerica
Geography	
GEA 4405	Geography of Latin America
History	
LAH 3100	Colonial and Revolutionary Latin America
LAH 3200	Latin America since Independence
Literature	
SPN 4520	Latin American Culture and Civilization
Political Science	
CPO 4303	Politics of Spain, Portugal, and Latin America
Total Hours	18

Sociology

The Sociology minor provides students with knowledge of basic theoretical concepts in the discipline and applies the major theoretical perspectives to contemporary society. The program emphasizes cultivating the sociological imagination by developing students' awareness of the social component of all dimensions of human experience and how people's lived experiences and views are shaped by social forces.

Students must demonstrate their command of and competence in sociology by successfully completing four 2000/4000 level courses from the approved list and one advisor approved Social Science course from a related discipline.

ANT 3212	Peoples and Cultures of the World	3
CCJ 3014	Criminology	3
SYD 3810	Introduction to Women's Studies	3
SYD 4800	Sociology of Sex Roles	3

SYG 2000	Introduction to Sociology	3
or SYG 2010	Current Social Problems	
SYO 3100	The Family	3
SYO 4530	Inequality in America	3
SYP 3630	Popular Culture	3

Arabic Language and Culture Certificate

College: Arts and Sciences

Department: Continuing Education

Method of Instruction: Online

Semester Hours: 12

This innovative certificate in Arabic language and Culture is designed for beginning students to develop language and culture skills through listening, speaking, reading and writing, and emphasizes cultural understanding of the Arab world.

The certificate consists of three courses in Arabic Language and Culture – each course is 4 semester hours. The first course starts at the introductory level, there is no prerequisite knowledge of Arabic Language or Culture required – and offers a mix of culture with basic language component development through drill and practice and interaction with the instructor using web collaboration software. The second and third courses are also tied to culture and sometimes include other Arabic language software to assist students in sentence structure and conversational Arabic development.

The Arabic Language and Culture program provides the opportunity to gain an excellent grasp of the Arabic Language and Culture. The program is designed so participants will learn to read and write the Arabic alphabet, to speak words and phrases, and to enter into conversations. While this program is not designed to reach the fluency level of the Arabic language, students will develop the language skills necessary to communicate with Arab speaking people throughout the world. Each course is 1 full semester in length – completing the certificate will take a minimum of 3 consecutive semesters. This course is fully online and regular internet connectivity is required.

ARA 1120C	Beginning Arabic and Language Culture I	4
ARA 1121C	Beginning Arabic and Language Culture II	4
ARA 2200C	Intermediate Arabic Language and Culture I	4
Total Hours		12

* Successful completion of the first two courses (ARA 1120C (p. 79) Beginning Arabic and Language Culture I and ARA 1121C (p. 79) Beginning Arabic and Language Culture II) satisfies Florida's foreign language admission requirements.

Art

The B.A. in Art is awarded to students in two areas of specialization: Studio Art and Art History. Within the Studio Art Specialization, students can elect concentrations in Painting, Drawing, Sculpture, Printmaking, Photography, and Ceramics, as well as New and Mixed Media. For students in Art History, there are two avenues of study: one is a traditional liberal arts approach, while the other is designed to prepare future museum professionals. Students planning to teach art in the public schools should elect the Studio Art Specialization and must also declare a minor in Professional Education.

Program Requirements

In addition to the University's general requirements, students seeking the B.A. in Art must meet the requirements listed below.

A grade of "C" or better must be earned in all courses that are identified as common prerequisites, major, or major-related.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 80)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 80)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 80)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 80)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 80)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 80)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Studio Art Specialization

Common Prerequisites

ARH 2050	Western Survey I: Greek to Renaissance *	3
ARH 2051	Western Survey II: Baroque to Contemporary *	3
ART 1300C	Drawing I - Fundamentals	3
ART 1301C	Drawing II - Fundamentals	3

ART 2201C	Two-Dimensional Design	3
ART 2203C	Three-Dimensional Design	3
The following are recommended Introductory Media Courses:		6
ART 2500C	Painting I - Fundamentals	
ART 2701C	Fundamentals of Sculpture	
Total Hours		24

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 0-3

Total Hours	0-3
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Major

ARH 3590	Perspectives in Ancient and World Art +	3
ART 3213C	Advanced Ideas and Concepts +	3
ART 3312C	Drawing III: The Figure +	3
3000/4000 level Art History (ARH) electives +		6
3000/4000 level Studio Art (ART) electives +		18
Personal Directions Course in concentration +		3
Choose one of the following:		3
ARH 4450	Modern Art 1900-1950 +	
ARH 4470	Art After 1950 +	
If not completed at the lower division:		0-6
ART 2500C	Painting I - Fundamentals	
ART 2701C	Fundamentals of Sculpture	
Total Hours		39-45

Major-Related

3000/4000 Level Art, Humanities, or Advisor Approved Elective Courses		12
Choose one of the following:		3
ANT 4651	Aesthetics & Critical Theory +	
ARH 4930	History of Art History Seminar +	
PHI 3800	Philosophy of Art +	
Total Hours		15

+ Courses included in the major GPA

Upper Division Electives

The remainder of the program will be comprised of electives that students can select without limitation. However, students must select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses at UWF. 0-6

Total Hours	0-6
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Art History Specialization

Common Prerequisites

ARH 2050	Western Survey I: Greek to Renaissance *	3
ARH 2051	Western Survey II: Baroque to Contemporary *	3
ART 1300C	Drawing I - Fundamentals	3
ART 1301C	Drawing II - Fundamentals	3
ART 2201C	Two-Dimensional Design	3
ART 2203C	Three-Dimensional Design	3
ART 2XXX	(Foreign Language Suggested - See Advisor)	6
Total Hours		24

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	0-3
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Major

ARH 3590	Perspectives in Ancient and World Art ⁺	3
ARH 4830C	Museum and Gallery Studies ⁺	3
ARH 4930	History of Art History Seminar ⁺	3
ART 3507C	Painting for Non-Majors ^{*, +}	3
3000/4000 level Art History (ARH) courses ^{**} , ⁺		15
3000/4000 level Studio Art (ART) electives ⁺		9
Choose one of the following:		3
ARH 4450	Modern Art 1900-1950 ⁺	
ARH 4470	Art After 1950 ⁺	
Capstone course (choose one):		3
ARH 4835	Museum and Gallery Studies Practicum ⁺	
ARH 4911	Research in Art History ⁺	
Total Hours		42

* If no credit earned in [ART 2500C](#)

** May not include [ARH 4835](#)

+ Courses included in the major GPA

Major-Related

3000/4000 level Art, Humanities, or advisor-approved courses - may include one third year level foreign language (may be 2000 level)	12
Choose one of the following:	3
ANT 4651	Aesthetics & Critical Theory ⁺
PHI 3800	Philosophy of Art ⁺
Total Hours	15

Upper Division Electives

The remainder of the program will be comprised of electives that students can select without limitation. However, students must select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level if necessary. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses at UWF.

Total Hours	3
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Minors

Art

Students may earn a Minor in Art by completing art and/or art history courses with permission of an assigned art advisor (see Art Department advisor for details). Of the 18 semester hours required for this minor, at least 12 sh must be taken at UWF. No fewer than 12 sh must be at the 3000/4000 level. Art majors may not earn this minor.

Professional Education:

See Professional Education Minor (p. 254) page for information.

Athletic Training

The Athletic Training major is designed to prepare students for an entry-level allied healthcare career in the athletic training profession (high school athletics, college/university athletics, professional sport teams, industrial, or sports medicine clinic/outreach settings). This program, specifically designed to meet national and state licensure requirements, includes a three-year comprehensive plan of study starting in the sophomore year that combines classroom and clinical education components. Students graduating from this program may be eligible to sit for the National Athletic Trainers' Association (NATA) Board of Certification (BOC) examination and athletic training state licensure/certification in Florida (as well as other states). BOC exam eligibility requirements are defined in the ATP Retention and Program Progression Guidelines. Contact the Program Director for this information. The Athletic Training major is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). This is a limited access program and acceptance to the University does not constitute admission to the upper division portion of the Athletic Training major. A separate application must be made to the department during spring semester of the sophomore year.

Program Requirements

Students may declare a preliminary major in Athletic Training, but may not enroll in the initial clinical course (ATR 3812 Athletic Training Clinical I) until the fall semester of each year after being formally admitted to this limited access program. Acceptance into the program is competitive. Minimum application requirements are based on the prerequisites for entry into ATR 3812. After meeting admission requirements, the student must earn a grade of "B-" or better in all major courses and a grade of "C" or better in all major-related courses to graduate. Additionally, students admitted into the athletic training major must adhere to the program retention policies as outlined in the Athletic Training Student Handbook. BOC certification exam eligibility requirements are defined in the program retention policies. For more information, contact the Director of Athletic Training Education.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 83)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 83)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 83)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 83)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 83)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 83)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Athletic Training majors should take BSC 1085/BSC 1085L and BSC 1086/BSC 1086L to satisfy the natural science component, PSY 2012 to meet the behavioral perspectives component, and STA 2023 to partially meet the mathematics component of General Studies.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1005+L	General Biology for Non-Majors (+Lab) *	3
BSC 1085+L	Anatomy and Physiology I (+Lab) *	4
BSC 1086+L	Anatomy and Physiology II (+Lab) *	4

PHY 2053+L	General Physics I (+Lab) *	4
PSY 2012	General Psychology *	3
STA 2023	Elements of Statistics *	3
Choose one:		3
HSC 2577	Principles of Nutrition	
APK 4163	Sport Nutrition and Weight Control	

* Indicates common prerequisite which can be used to satisfy General Studies requirements

Lower Division Electives

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Total Hours 0-13

Major

Students with an interest in the Athletic Training major should contact the Director of Athletic Training to discuss this rigorous program before declaring this as a preliminary major. Students must be accepted into this limited access program before beginning upper division course work.

Graduation requirements for the program are:

- Complete application documents to the Athletic Training Education Program
- Fulfill admission requirements for the Athletic Training Education Program
- Grade of "C" or better in all major and major-related courses
- Adhere to ATP Retention and Progression Guidelines.

ATR 4933	Senior Seminar in Athletic Training	3
ATR 3212	Evaluation Techniques of Athletic Injuries I +	3
ATR 4420	Pharmacology Application in Athletic Training +	3
ATR 2000	Basic Care and Prevention Principles of Athletic Training	3
ATR 2010	Advanced Prevention and Care of Injuries in Health, Leisure, and Sports	3
ATR 3132	Functional Kinesiology +	3
ATR 3512	Management Strategies in Athletic Training +	3
ATR 3812	Athletic Training Clinical I +	3
ATR 3822	Athletic Training Clinical II +	3
ATR 3104	Protective Methods in Sports Medicine +	3
ATR 4432	General Medical Conditions	2
ATR 4213	Evaluation Techniques of Athletic Injuries II +	3
ATR 4314+L	Rehabilitation of Athletic Injuries (+Lab) +	4
ATR 3302+L	Therapeutic Modalities in Athletic Training (+Lab) +	4
ATR 4832	Athletic Training Clinical III +	3
ATR 4842	Athletic Training Clinical IV +	3
Total Hours		49

Major-Related

APK 3110+L	Exercise Physiology (+Lab) +	4
PET 4310C	Mechanics of Human Motion +	4
APK 4114C	Physiological Basis of Strength Development +	3
Total Hours		11

+ Courses included in the major GPA

Biology

Technological breakthroughs in areas such as biochemistry, botany, ecology, genetics, microbiology, molecular biology, and physiology are being used to solve problems in agriculture, environmental toxicology, forestry, medicine, public health, and the pharmaceutical industry. The Department of Biology focuses on areas of modern biology and biotechnology offering the degree in two specializations: General Biology and Pre-Professional Biology. The specializations include a series of seven core courses fundamental to all areas of biology.

Graduates are prepared to gain employment in industry, government, health professions, and research laboratories or to pursue advanced degrees in the biological sciences, professional schools (medicine, dentistry, optometry, pharmacy, veterinary), and public health. Prospective students need to be aware that some biology lab courses involve the use of live animals. Students may wish to seek details from course instructors before enrolling.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Biology must meet the requirements listed below.

A grade of "C" or better is required in each of the seven biology core courses. Consult with your academic advisor for courses that may satisfy both the General Education requirements and common prerequisites.

General Education

Biology majors should satisfy the mathematics (6 sh) and science (7 sh) components of General Education with course work taken from the common prerequisites shown below.

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 86)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 86)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 86)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 86)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 86)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 86)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Graduation requirements for the B.S. degree in Biology include the successful completion of the common prerequisites. Because it will be difficult to incorporate all prerequisites into the 60 sh Lower Division Curriculum, students are advised to complete the following common prerequisites.

BSC 2010+L	Biology I (+Lab)	4
BSC 2011+L	Biology II (+Lab)	4

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
STA 2023	Elements of Statistics *	3
Choose one option from the following:		8
Option 1		
CHM 2210+L	Organic Chemistry I (+Lab)	
CHM 2211+L	Organic Chemistry II (+Lab)	
Option 2 (Preferred Option)		
PHY 2053+L	General Physics I (+Lab) *	
PHY 2054+L	General Physics II (+Lab) *	
Total Hours		31

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 0-6

Biology Core

BCH 3033+L	Biochemistry I (+Lab)	4
BSC 2844	Biology Skills	1
MCB 3020+L	Microbiology (+Lab)	4
PCB 3063+L	Genetics (+Lab)	4
PCB 4043+L	Ecology (+Lab)	4
PCB 4673	Principles of Evolution	3
PCB 4922	Biology Seminar	1
Total Hours		21

General Biology Specialization

The General Biology Specialization includes a grounding in the basic areas of biology from molecular to ecological processes. Electives allow students to concentrate in areas of interest, such as microbiology, ecology, etc., at a more advanced level. Directed study hours may be included as elective to increase "hands-on" learning in an area of interest.

Minimum grade of "C" or better required in all courses in the program to include all Core, Specialization, Subcore, Major-Related and Common Prerequisites.

Major-Related

STA 4173	Biostatistics	3
Students must take one of the following that are not completed as part of the Common Prerequisites in the lower division:		4
CHM 2210+L	Organic Chemistry I (+Lab)	
PHY 2053+L	General Physics I (+Lab)	
Total Hours		7

Biology Core - 21 sh

See Program Requirements

General Biology Specialization

PCB 3103+L	Cell Biology (+Lab)	4
Choose one of the following:		4
BOT 4503+L	Plant Physiology (+Lab)	
PCB 4098+L	Concepts in Human Physiology (+Lab)	
PCB 4723+L	Comparative Animal Physiology (+Lab)	

Choose one of the following:	4
BOT 4374+L Plant Developmental Biology (+Lab)	
PCB 3253+L Developmental Biology (+Lab)	
Choose one of the following:	4
BOT 4734+L Plant Biotechnology (+Lab)	
PCB 4524+L Molecular Biology (+Lab)	
Total Hours	16

General Biology Sub-core

3000/4000 level Biology electives with the following course prefixes (BCH, BOT, BSC, GEY, MCB, PCB, ZOO) with the exception of PCB 4703 and ZOO 3558	16
or any of the following:	
HSC 3535 Introduction to Medical Terminology	
HSC 3555 Pathophysiology	
MLS 4305+L Hematology I (+Lab)	
MLS 4462+L Medical Microbiology (+Lab)	
MLS 4625+L Clinical Chemistry I (+Lab)	
MLS 4630+L Clinical Chemistry II (+Lab)	
OCB 4104 Marine Field Ecology	
OCE 3XXX Concepts of Oceanography and Marine Biology	
Total Hours	16

The upper-division courses (3000-4000 level) with the following prefixes will be used in calculating the major grade point average: BCH, BOT, BSC, PCB, MCB, ZOO, and HSC.

Up to 2 sh of directed study credit may be applied to electives. Students must confer with advisor when selecting electives.

The sub-core may include any upper division course in biology, except ZOO 3733. At least two upper division botany courses must be included in the program.

Pre-Professional Biology Specialization

Program Contacts

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The number of students applying for professional training in fields such as medicine, osteopathic medicine, dentistry, veterinary medicine, optometry, podiatry, pharmacy, and physical therapy always exceeds the number of positions available. Therefore, competition for these positions is very intensive. Students from Florida primarily apply to in-state professional schools. They must have outstanding credentials to receive serious consideration at public institutions out-of-state. Private out-of-state institutions are somewhat more receptive. Foreign professional schools should be considered with extreme caution.

Health Advisory Program

Professional schools are interested in a student's academic training and accomplishments as measured by the student's transcripts. The most successful applicants are full-time students (minimum of 12 sh per semester) with a minimum cumulative GPA above 3.5 during the three or four semesters immediately preceding application. It makes little difference as to the student's major, although most pre-professional students at UWF select a specialization in biology or chemistry. Criteria to be considered in selecting a major are as follows:

1. A field within which the student can meet the prerequisites for admission to professional school and for graduation from UWF at a very high performance level
2. A major that provides viable career alternatives
3. A major which is enjoyable to the student

Professional schools require at the minimum:

- Biology w/laboratory (1 year)
- Mathematics (calculus required or recommended)
- Physics w/laboratory (1 year)
- Chemistry w/laboratory through organic (physical therapy requires only one year of chemistry)

Most schools have additional requirements. Courses in anatomy, analytical chemistry, biochemistry, cell biology, computer techniques, developmental biology, genetics, microbiology, physical chemistry, physiology, psychology, and statistics are also useful and often required. However, a student could major in history, for example, and use electives as a means to complete the entrance requirements. The exact program for each student will depend upon background and interests.

A speech course and two courses in animal science are required for admission to veterinary medicine. UWF students generally meet these requirements by registering at the University of Florida as transient students during a summer semester.

Pharmacy and physical therapy schools require at least two years of college which include the above required courses. The other professional schools prefer a bachelor's degree.

Admission Requirements to the Upper-Division Pre-professional Program for Transfer Students

Professional training is essentially advanced training in biology. The emphasis on mathematics, physics, and chemistry, as much as

biology, facilitates understanding of advanced work. Transfer students should have backgrounds in these four science areas. They also should have 12 sh in the humanities, including English composition, and 12 sh in social sciences, such as psychology and history. College algebra with trigonometry, general chemistry, elementary biology, and zoology or botany are prerequisites for the upper-division science courses.

Application to Professional Schools

The formal process of applying for admission to professional schools generally begins in the spring of the calendar year prior to the anticipated enrollment. As appropriate, a student takes the Medical College Admission Test (MCAT); the Dental Aptitude Test (DAT); the Optometry Aptitude Test (OAT); the Graduate Record Examination (GRE); or other pre-professional examination. It is necessary to have completed almost all prerequisites by that time. The examinations may be taken at other times, but the decision should be discussed with an advisor.

Applications are completed and submitted to the schools or to application services such as the American Medical College Application Service (AMCAS) or the Association of American Dental Schools Application Service (AADSAS) during the summer and early fall. Evaluations are submitted by the faculty at that time and students seek interviews from the professional schools which require them. Decisions generally are announced during the January-to-March period.

Health Advisory Committee

Students enrolled at UWF who intend to apply for admission to professional schools such as medical, dental, optometry, pediatric medicine or schools of veterinary medicine generally utilize the services of the Health Advisory Committee.

The Health Advisory Committee provides on-going advice (regardless of the student's major), direct contact with the professional schools, brochures, applications, and other materials of interest to such students. The committee arranges visits of admissions officers from various schools and provides a means of introducing students to local practitioners.

During the application process, candidates for admission to professional schools usually are asked to provide a letter of recommendation from a faculty committee. The Health Advisory Committee serves this function. On request, the Committee will schedule an interview with the candidate. This interview serves three purposes:

1. Information is gathered for the preparation of the letter of recommendation.
2. The student's performance at the interview is critiqued.
3. The candidate is given some pointers on presentation.

Minimum grade of "C" or better required in all Common Prerequisites

Biology Core - 21 sh (Minimum grade of "C" or better required)

See Program Requirements

Pre-Professional Biology Specialization

PCB 3103+L	Cell Biology (+Lab)	4
PCB 3097+L	Introduction to Human Anatomy (+Lab)	4
PCB 4233+L	Immunology (+Lab)	4
Choose one of the following:		4
PCB 4098+L	Concepts in Human Physiology (+Lab)	

PCB 4723+L	Comparative Animal Physiology (+Lab)	
Total Hours		16

Pre-Professional Biology Sub-core (Minimum grade of "C" or better required)

Electives chosen with advisor (the following are recommended):		19
BOT 4734+L	Plant Biotechnology (+Lab)	
BCH 3034	Biochemistry II	
BSC 4941	Clinical Experience in Health Care	
GEY 4001	Gerontology	
HSC 3535	Introduction to Medical Terminology	
HSC 3555	Pathophysiology	
MCB 4276	Epidemiology of Infectious Disease	
MLS 4305+L	Hematology I (+Lab)	
MLS 4462+L	Medical Microbiology (+Lab)	
MLS 4625+L	Clinical Chemistry I (+Lab)	
MLS 4630+L	Clinical Chemistry II (+Lab)	
PCB 3930	Biology Seminar Series	
PCB 4098+L	Concepts in Human Physiology (+Lab)	
PCB 3253+L	Developmental Biology (+Lab)	
PCB 4524+L	Molecular Biology (+Lab)	
PCB 4723+L	Comparative Animal Physiology (+Lab)	
ZOO 4513	Animal Behavior	
Directed Study (2 hours max)		
Total Hours		19

Pre-Professional Major-Related (Minimum grade of "C" or better required)

Students must take one of the following that was not completed as part of the Common Prerequisites in the lower division		4
CHM 2210+L	Organic Chemistry I (+Lab)	
PHY 2053+L	General Physics I (+Lab)	

Minors

Biology

A 20 sh Minor in Biology is available for students in a wide variety of majors.

It provides the opportunity to add value to the major degree and to expand their opportunities for employment. It is especially appropriate for students who plan to work in administrative or other nonresearch-related areas of the biomedical, environmental, pharmaceutical, and other biological science-related industries.

A minimum of 14 sh must be taken at UWF, including at least 9 sh of 3000/4000

course work taken in residence at UWF. A minimum grade of "C" is required in all

courses used to satisfy the minor. Neither directed study nor credit by exam (AP, CLEP, etc.) may be applied toward the minor. Contact the Department of Biology Academic Advisor for assistance in choosing courses to meet specific needs.

Biology, Marine Biology, Medical Technology, and Zoo Science majors may not earn this minor.

BSC 2010+L	Biology I (+Lab)	4
BSC 2011+L	Biology II (+Lab)	4

Students should assess the prerequisites for upper division courses they wish to take to complete the minor.

3000/4000 level Biology (BCH, BOT, BSC, MCB, MLS, OCE, PCB, and ZOO) courses which includes at least one 4 sh lab courses	12
Total Hours	20

Business, General

The B.S.B.A. in General Business is an included program in the University's accreditation by AACSB International.

The Bachelor of Science in Business Administration (B.S.B.A.) degree with a major in General Business prepares students for the world of business, which increasingly demands that business graduates have cross functional abilities. The General Business major builds abilities across multiple business disciplines, including Management, Marketing, and Finance/Economics, thus providing broad abilities in the context of managing modern businesses. The orientation of the major is towards effective management of resources, adoption of market orientation, and understanding of financial and/or economic implications of management decisions.

Program Requirements

In addition to the university's general requirements, students seeking the B.S.B.A. in General Business must meet the requirements listed below. A minimum course grade of "C" is required in all College of Business prerequisites and courses.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 91)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 91)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 91)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology
Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 91)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 91)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 91)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

General Business majors should take the following courses to satisfy components of the General Education curriculum courses:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social Sciences		3
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	3-12
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Major

Students must complete courses from both the C.O.B core (30 sh) and from the specialization (30 sh).

College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

General Business Specialization

MAN 3240	Behavior in Organizations ⁺	3
MAN 3301	Human Resources Management ⁺	3
MAN 4750	The Future: Projecting, Planning and Managing ⁺	3
Two 3000/4000 level advisor approved Management (MAN) courses ^{*,+}		6
Two 3000/4000 level advisor approved Marketing (MAR) courses ⁺		6
Two 3000/4000 level advisor approved Finance/Economics courses ⁺		6
3000/4000 level College of Business elective ⁺		3
<hr/> Total Hours		<hr/> 30

* May include ISM 3323 Information Security Management and/or HSA 4110 Health Care Policy and Administration

+ Courses included in the major GPA

Career and Technical Education

The program in Workforce and Professional Studies is designed to prepare individuals to work in a variety of settings, depending on completed coursework. Individuals may develop and implement training and educational materials to support employers, employees, as well as individuals who are underemployed and unemployed. In addition, students can acquire valuable technical skills that can be immediately used in the workforce. From trainers to counselors to curriculum developers, graduates work in a variety of organizations to support career and technical education and training and to promote overall organizational success. The program is designed to prepare graduates to plan, supervise, conduct, and evaluate workforce and training programs in business, industry, and government. Individuals who desire to work in PK-12 environments will gain an excellent foundation. However, Florida certification in career and technical education is granted by local school districts. Contact the program advisor for information about teaching in PK-12 organizations.

Individuals who are interested in teaching in the public schools can pursue a Minor in Professional Education which is designed to provide non-education majors with the Professional Education component requisite to becoming a certified teacher in Florida. Career and Technical educators are certified by individual school districts. For information on the process and required courses, contact the program advisor.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Career and Technical Studies must meet the requirements listed below. Consult with your academic advisor for courses which may satisfy both the General Education requirements and common prerequisites. In addition to general University requirements, students seeking the B.S. in Career and Technical Education: Workforce and Program Development must earn a grade of "C" or higher in all major courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 94)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 94)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 94)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 94)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 94)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 94)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
In addition, 15 semester hours from the area of specialization.		15

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 24

Major

ECT 3004	Principles of Career and Technical Studies +	4
ECT 3183	Course Construction for Career and Technical Training +	3
ECT 3367	Career and Technical Instructional Evaluation +	3
ECT 3945	Supervised Field Problems +	3
ECT 4380	Special Methods in Career and Technical Studies +	4
ECT 4560	Selection and Guidance of Career and Technical Studies Students +	3
ECT 4562	Introduction to Career and Technical Special Needs Education +	3
ECT 4930	Seminar +	3
Total Hours		26

Major-Related

MAN 3025	Management Fundamentals +	3
EME 4313	Digital Media Services Operations +	3
Total Hours		6

+ Courses included in the major GPA

Upper Division Electives

Sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or completion of all departmental requirements at the 3000/4000 level, whichever is greater. Coursework should include content relevant to the student's career goals, related to business, psychology, communication, science, or technology. Students who wish to pursue Teacher Certification for CTE (awarded by individual school districts) should consult with the CTE advisor for appropriate coursework.

Total Hours 28

Certificates

Career and Technical Education Program Certificate

Department: Instructional, Workforce and Applied Technology

Method of Instruction: Online

Semester Hours: 14

Individuals who teach in Career and Technical education (CTE) content areas complete initial certification courses to receive permanent teaching credentials. The State of Florida requires all individuals who teach to complete courses designed to enhance skills in developing teaching and learning strategies for the CTE classroom.

ECT 3004	Principles of Career and Technical Studies	4
ECT 4562	Introduction to Career and Technical Special Needs Education	3
One of the following:		3
ECT 3183	Course Construction for Career and Technical Training (One of the following:)	
ECT 3367	Career and Technical Instructional Evaluation	
One of the following:		4
ECT 4380	Special Methods in Career and Technical Studies	
BTE 4401	Special Methods of Teaching Business Education	

ECW 4310	Strategies for Planning and Operating Health Occupations Education	
DEC 4401	Special Teaching Methods: Distributive Education	
Total Hours		14

OPTIONAL

Students wishing to pursue additional CTE endorsements can include these additional courses:

Vocational Director

ECT 5295	Curriculum and Staff Development for Career and Technical Education Programs	3
ECW 6695	School Involvement and Community Relations	3
ECT 5266	Administration and Supervision of Career and Technical Education Programs	3
Total Hours		9

Cooperative Education Endorsement

ECW 5265	Coordination and Management of Cooperative Career and Technical Education Program	3
ECW 6561	Selection and Guidance of Career and Technical Studies	3
Total Hours		6

Chemistry, Bachelor of Arts

The B.A. in Chemistry is available in two specializations: Chemistry and Chemistry/Biochemistry. Both specializations are designed for students who need a strong background in chemistry for application in other fields such as business, education, forensic science, pre-medical, pre-dental, pre-law, and some environmental fields.

The program is designed for students who need a strong background in chemistry for application in other fields. The tracks within this program are business, pre-law, and education, and chemical hygiene. Each track has the same core of chemistry courses and a set of required courses which depends on the area of concentration. The education track meets the American Chemical Society (ACS) recommendations for a Chemistry/Education degree.

Students may also complete an advisor approved minor or its 15-18 sh equivalent in a field related to the student's career objectives.

Program Requirements

In addition to the university's general requirements, students seeking the B.A. in Chemistry must meet the requirements listed below.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

A grade of "C-" or better is required in all common prerequisites. No grade below a "C-" in a major course may be applied toward graduation.

B.A. Chemistry Specialization

The program is designed for students who need a strong background in chemistry for application in other fields. The tracks within this program are business, pre-law, and education, and chemical hygiene. Each track has the same core of chemistry courses and a set of required courses which depends on the area of concentration.

The education track meets the American Chemical Society (ACS) recommendations for a Chemistry/Education degree.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

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MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 97)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 97)

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Group A

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LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

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ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 97)

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CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 97)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
CHM 2210+L	Organic Chemistry I (+Lab)	4
CHM 2211+L	Organic Chemistry II (+Lab)	4
Choose one option from the following:		8

Option 1	
PHY 2048+L	University Physics I (+Lab) *
PHY 2049+L	University Physics II (+Lab) *
Option 2	
PHY 2053+L	General Physics I (+Lab) *
PHY 2054+L	General Physics II (+Lab) *
Total Hours	32

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 0-13

Major

CHM 3120+L	Analytical Chemistry (+Lab) +	4
CHM 3400C	Basic Physical Chemistry +	4
CHM 4611	Inorganic Chemistry +	4
CHM 4931	Seminars in Chemistry +	1
Choose 12 semester hours (with approval from department advisor):		12
CHM 3230	Organic Chemistry III +	
CHM 3740L	Advanced Laboratory Techniques +	
CHM 3940	Chemistry Internship +	
CHM 4130+L	Instrumental Analysis (+Lab) +	
CHM 4455+L	Introduction to Polymer Science (+Lab) +	
CHM 4610L	Inorganic Synthesis +	
CHM 4912	Undergraduate Chemistry Research +	
CHM 4930	Seminar: Special Topics in Advanced Chemistry +	
Total Hours		25

+ Courses included in the major GPA

Major-Related

Students must choose one of the following tracks:

Business Track*

GEB 3032	Business Foundations for Non-Business Majors	3
MAR 4403	Sales Management	3
MAR 4412	Professional Selling Methods	3
Choose one of the following:		3
STA 2023	Elements of Statistics	
STA 3162C	Applied Statistics	
Choose two of the following:		6
ACG 3082	Accounting for Non-Majors	
ECO 3003	Principles of Economic Theory and Public Policy	
MAN 3025	Management Fundamentals	
Total Hours		18

* No more than 24% of the program requirements for this degree may be in traditional business subjects.

Pre-Law Track

CJL 3510	Judicial Process	3
PLA 4263	Evidence	3
PLA 4309	Criminal Procedure	3
Choose two of the following:		6
EVR 4035	Environmental Law	

PLA 3103	Legal Research and Writing	
PLA 4277	Tort Law	
PLA 4306	Criminal Law	
Total Hours		15

Education Track

EDF 3234	Applied Foundations of Education	3
EDG 3323	General Methods of K-12 Reading Instruction	3
ESE 4322	Instruction, Management, and Assessment: Secondary Education	3
ESE 4940	Field Experience 1	3
SCE 4320	Teaching Science in the Middle and Secondary Schools	3
Total Hours		15

Chemical Hygiene Track

Advisor Approved Elective		3
PHC 4341	Fundamentals of Occupational Safety and Health	3
PHC 4340	Fundamentals of Industrial Hygiene	3
HSC 4404	Medical Disaster Management	3
EVR 4035	Environmental Law	3
One additional advisor elective course		3-4
Total Hours		18-19

Minor Track

Students must complete an advisor approved minor or its 15-18 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside chemistry.

Total Hours 15-18

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours 8-20

B.A. Chemistry/Biochemistry Specialization

The program is designed for students who need a strong background in chemistry/biochemistry for application in other fields. The tracks within this program are: Environmental, Forensics, Pre-medical, and Medicinal Chemistry. Each track has the same core of chemistry courses and a set of required courses which depends on the area of concentration. The pre-medical track prepares students for admission to medical, dental, and pharmacy schools while providing the broad-based education preferred by these institutions.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 97)		
ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 97)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 97)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 97)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 97)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 97)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
CHM 2210+L	Organic Chemistry I (+Lab)	4
CHM 2211+L	Organic Chemistry II (+Lab)	4
Choose one option from the following:		8

Option 1		
PHY 2048+L	University Physics I (+Lab) *	
PHY 2049+L	University Physics II (+Lab) *	
Option 2		
PHY 2053+L	General Physics I (+Lab) *	
PHY 2054+L	General Physics II (+Lab) *	

Total Hours 32

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 0-5

Major

CHM 3120+L	Analytical Chemistry (+Lab) +	4
CHM 3400C	Basic Physical Chemistry +	4
CHM 4611	Inorganic Chemistry +	4
CHM 4931	Seminars in Chemistry +	1
Choose 12 semester hours (with approval from departmental advisor):		12
CHM 3230	Organic Chemistry III +	
CHM 3740L	Advanced Laboratory Techniques +	
CHM 3940	Chemistry Internship +	
CHM 4130+L	Instrumental Analysis (+Lab) +	
CHM 4455+L	Introduction to Polymer Science (+Lab) +	
CHM 4610L	Inorganic Synthesis +	
CHM 4912	Undergraduate Chemistry Research +	
CHM 4930	Seminar: Special Topics in Advanced Chemistry +	

Total Hours 25

+ Courses included in the major GPA

Major-Related

BSC 2010	Biology I	3
BSC 2010L	Biology I Laboratory	1
BSC 2011	Biology II	3
BSC 2011L	Biology II Laboratory	1

Total Hours 8

Students must choose one of the following tracks:

Environmental Track

GLY 2010+L	Physical Geology (+Lab)	4
GEO 3260+L	Geography of Soils (+Lab)	4
GEO 4280+L	Basic Hydrology (+Lab)	4
Choose one of the following:		3
GLY 4244	Biogeochemistry	
GLY 4240	Geochemistry	
Choose one of the following:		3
GLY 3031C	Environmental Geology	
GEO 3372	Conservation of Natural Resources	
EVR 4823	Environmental Impact Assessment	

Total Hours 18

Pre-Medical Track

PHI 4633	Biomedical Ethics	3
ENC 3250	Professional Writing	3

Choose three of the following:	11-12
PCB 3063+L Genetics (+Lab)	
PCB 4703 Human Physiology	
MCB 3020+L Microbiology (+Lab)	
BCH 3033+L Biochemistry I (+Lab)	
Total Hours	17-18

Forensic Sciences Track

CCJ 3024 American Justice System	3
CJE 3674 Introduction to the Forensic Sciences	3
CCJ 3654 Drugs, Crime, and Criminal Justice	3
Advisor Approved Elective	3
Choose two of the following:	6
CJE 4610 Criminal Investigation	
PLA 4263 Evidence	
ANT 3520 Forensic Anthropology	
PLA 4309 Criminal Procedure	
CCJ 3014 Criminology	
Total Hours	18

Medicinal Chemistry Track

PCB 3063+L Genetics (+Lab)	4
BCH 3033 Biochemistry I	3
BCH 3033L Biochemistry I Laboratory	1
BCH 3034 Biochemistry II	3
PCB 4233+L Immunology (+Lab)	4
Advisor-approved electives courses	3-4
Total Hours	18-19

Minor Track

Students complete an advisor approved minor or its 15-18 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside chemistry.	15-18
Total Hours	15-18

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	20
Total Hours	20

Minors**Chemistry**

The Minor in Chemistry is designed for students majoring in other science disciplines. Chemistry majors may not earn this minor. The following requirements must be completed.

CHM 2045+L General Chemistry I (+Lab)	4
CHM 2046+L General Chemistry II (+Lab)	4
CHM 2210+L Organic Chemistry I (+Lab)	4
CHM 2211+L Organic Chemistry II (+Lab)	4
CHM 3120+L Analytical Chemistry (+Lab)	4
CHM 3400C Basic Physical Chemistry	4
CHM 4611 Inorganic Chemistry	4
MAC 2311 Analytic Geometry and Calculus I	4
MAC 2312 Analytic Geometry and Calculus II	4
Advisor-approved 3000/4000 level course	3-4
Choose one option from the following:	8
Option 1	
PHY 2048+L University Physics I (+Lab)	
PHY 2049+L University Physics II (+Lab)	
Option 2	
PHY 2053+L General Physics I (+Lab)	

PHY 2054+L	General Physics II (+Lab)	
Total Hours		47-48

Chemistry, Bachelor of Science

The B.S. specializations in Chemistry and Chemistry/Biochemistry have been approved by the Committee on Professional Training of the American Chemical Society (ACS) and consist of courses designed to offer training in the fundamentals of chemistry. Opportunities exist for the student to take courses to prepare for a wide variety of careers in chemistry and related fields. The B.S. program is recommended for students wishing to enter graduate programs in chemistry or to find employment as professional chemists.

Students interested in obtaining certification to teach this subject area in secondary education need to contact an advisor in this department to carefully plan the course work to satisfy degree and some teacher certification requirements. A degree in this major is required for participation in teacher education certification options.

Program Requirements

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

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

A grade of "C-" or better is required in all common prerequisites. No grade below a "C-" in a major course may be applied toward graduation.

Chemistry B.S. and Chemistry/Biochemistry B.S. specialization majors must complete the following for ACS certification:

PHY 2048	University Physics I	3
PHY 2049	University Physics II	3
BCH 3033+L	Biochemistry I (+Lab)	4

Chemistry/Biochemistry, B.S. Specialization majors must also take the following for ACS certification:

One of the following:		4
PCB 3063+L	Genetics (+Lab)	
MCB 3020+L	Microbiology (+Lab)	
Plus one additional course in biochemistry		3

B.S. Chemistry Specialization

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 103)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 103)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 103)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 103)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 103)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 103)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
CHM 2210+L	Organic Chemistry I (+Lab)	4
CHM 2211+L	Organic Chemistry II (+Lab)	4
PHY 2048+L	University Physics I (+Lab) *	4

PHY 2049+L	University Physics II (+Lab) *	4
Total Hours		32

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.	0-5
Total Hours	0-5

Major

CHM 3120+L	Analytical Chemistry (+Lab) +	4
CHM 3230	Organic Chemistry III +	3
CHM 3410	Physical Chemistry I +	5
CHM 3411	Physical Chemistry II +	4
CHM 3740L	Advanced Laboratory Techniques +	2
CHM 3741L	Physical Chemistry Laboratory +	2
CHM 4130+L	Instrumental Analysis (+Lab) +	4
CHM 4610L	Inorganic Synthesis +	1
CHM 4611	Inorganic Chemistry +	4
CHM 4931	Seminars in Chemistry +	1
Choose 10-11 sh (with approval from departmental advisor):		10-11
BCH 3033+L	Biochemistry I (+Lab)	
CHM 4455+L	Introduction to Polymer Science (+Lab) +	
CHM 4912	Undergraduate Chemistry Research +	
CHM 3940	Chemistry Internship * +	
CHM 4930	Seminar: Special Topics in Advanced Chemistry * +	
Total Hours		40-41

* Courses offered for a variable number of semester hours.

+ Courses included in the major GPA

Honors Research Track

CHM 2XXX	Research Experience	2
CHM 4931	Seminars in Chemistry +	1
CHM 3740L	Advanced Laboratory Techniques +	2
CHM 3410	Physical Chemistry I +	5
CHM 3230	Organic Chemistry III +	3
CHM 3411	Physical Chemistry II +	4
CHM 3741L	Physical Chemistry Laboratory +	2
CHM 3120+L	Analytical Chemistry (+Lab) +	4
CHM 4130+L	Instrumental Analysis (+Lab) +	4
Chemistry Elective		3-4
CHM 4611	Inorganic Chemistry +	4
CHM 4610L	Inorganic Synthesis +	1
CHM 4912	Undergraduate Chemistry Research +	8

This specialization is only for students in the Honors Program, and requires completion of an Honors thesis.

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	19-20
	19-20

B.S. Chemistry/Biochemistry Specialization

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 103)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 103)

Choose one course from Group A and one Additional course from either Group A or Group B

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 103)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 103)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 103)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 103)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
CHM 2210+L	Organic Chemistry I (+Lab)	4
CHM 2211+L	Organic Chemistry II (+Lab)	4
PHY 2048+L	University Physics I (+Lab) *	4

PHY 2049+L	University Physics II (+Lab) *	4
Total Hours		32

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. Majors should complete the Physics or Organic Chemistry sequence not completed in the Common Prerequisites.

Total Hours		0-5
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Major

CHM 3120+L	Analytical Chemistry (+Lab) +	4
CHM 3230	Organic Chemistry III +	3
CHM 3410	Physical Chemistry I +	5
CHM 3411	Physical Chemistry II +	4
CHM 3740L	Advanced Laboratory Techniques +	2
CHM 3741L	Physical Chemistry Laboratory +	2
CHM 4931	Seminars in Chemistry +	1
CHM 4610L	Inorganic Synthesis +	1
CHM 4611	Inorganic Chemistry +	4
Choose two of the following (advisor approved):		8
BCH 3033+L	Biochemistry I (+Lab)	
BCH 3034	Biochemistry II	
MCB 3020+L	Microbiology (+Lab)	
PCB 3063+L	Genetics (+Lab)	
PCB 4524	Molecular Biology	
Choose 3-4 from the following (advisor approved):		6-8
CHM 4130+L	Instrumental Analysis (+Lab) +	
CHM 4455+L	Introduction to Polymer Science (+Lab) +	
CHM 3940	Chemistry Internship +	
CHM 4912	Undergraduate Chemistry Research +	
CHM 4930	Seminar: Special Topics in Advanced Chemistry +	
Total Hours		40-42

+ Courses included in the major GPA

Major Related

BSC 2010+L	Biology I (+Lab)	4
BSC 2011+L	Biology II (+Lab)	4
Total Hours		8

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours		18-20
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Clinical Laboratory Sciences

The B.S. in Clinical Laboratory Sciences (formerly Medical Technology) is a degree accredited by:
The National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
5600 N. River Rd, Suite 720, Rosemont, IL 60018-5119
Telephone (773) 714-8880 or at <http://www.naacls.org/>

Building upon a foundation of biology and chemistry courses, the Clinical Laboratory Sciences (CLS) Program prepares students to enter the CLS profession through advanced hands-on training in the clinical laboratory sciences.

Upon completion of the program and the achievement of certification and license, clinical laboratory scientists are employed in a variety of health-care settings as laboratory technologists, progressing to supervisory and management positions. A majority of students graduating with this degree work in clinical laboratories. Others work in research labs, reference labs, public-health labs, blood banks, crime labs, physicians' office labs, and so on.

Program Requirements

Upon completion of the prerequisite courses listed below and other graduation requirements, the student is eligible to apply for selection into the clinical year. It should be noted that admission into the Clinical Laboratory Sciences Program's clinical year (19 months) is on a competitive basis, is limited to 40 students per class. The clinical year begins in spring or summer semester of the student's junior year. Note that meeting minimum standards does not guarantee admission into the program. Students who completed the prerequisite course work at another university may apply and be admitted to UWF-based clinical training, provided they meet the selection criteria given above. The selection into the clinical year is based on the following:

- Completion of all the prerequisite course work
- A minimum GPA of 2.5 in the completed course work
- Personal interview with the selection committee
- Recommendation letters

The accelerated nature of this program makes it desirable that students entering UWF as juniors have completed the prerequisites or equivalents listed below. Students with deficiencies may need two years to complete the lower division and junior-year prerequisites in order to be eligible for selection into the clinical year.

Students who are selected for clinical training will spend summer and fall semesters at UWF's main campus, followed by seven months of advanced clinical laboratory training at one of the affiliate hospitals. Students should contact the department for information about finishing the required clinical training after completing the B.S. degree and for a list of affiliated clinical training sites.

In addition to the university's general requirements, students seeking the B.S. degree in Clinical Laboratory Sciences must meet the requirements listed below. A grade of "C" or higher is required in each major course (clinical courses with a MLS prefix).

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements

through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 108)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 108)

Choose one course from Group A and one Additional course from either Group A or Group B		6
Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 108)

Choose one course from Group A and one additional course from either Group A or Group B		6
Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 108)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 108)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 108)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1085+L	Anatomy and Physiology I (+Lab) *	4
BSC 1086+L	Anatomy and Physiology II (+Lab)	4
CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
CHM 2210+L	Organic Chemistry I (+Lab) *	4
CHM 2211+L	Organic Chemistry II (+Lab) *	4

MCB 3020+L	Microbiology (+Lab) *	4
STA 2023	Elements of Statistics *	3
BSC 2010+L	Biology I (+Lab)	4
<hr/>		
Total Hours		35

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Major

MLS 4191+L	Molecular Diagnostics (+Lab) +	2
MLS 4220+L	Urinalysis/Body Fluids I (+Lab) +	2
MLS 4305+L	Hematology I (+Lab) +	4
MLS 4334+L	Hemostasis and Thrombosis (+Lab) +	2
MLS 4460+L	Diagnostic Microbiology I (+Lab) +	4
MLS 4462+L	Medical Microbiology (+Lab) +	4
MLS 4505+L	Serology (+Lab) +	2
MLS 4550+L	Immunohematology I (+Lab) +	4
MLS 4625+L	Clinical Chemistry I (+Lab) +	3
MLS 4630+L	Clinical Chemistry II (+Lab) +	3
MLS 4705	Special Clinical Topics +	1
MLS 4820L	Clinical Chemistry III +	4
MLS 4821L	Diagnostic Microbiology II +	4
MLS 4822L	Hematology II +	4
MLS 4823L	Immunohematology II +	4
MLS 4824L	Special Clinical Methods +	2
MLS 4825L	Urinalysis/Body Fluids II +	2
<hr/>		
Total Hours		51

+ Courses included in the major GPA

Major-Related

BCH 3033+L	Biochemistry I (+Lab)	4
HSC 3555	Pathophysiology	3
PCB 3063+L	Genetics (+Lab)	4
PCB 4233+L	Immunology (+Lab)	4
<hr/>		
Total Hours		15

Communication Arts

The B.A. in Communication Arts is grounded in the notion that effective communication is vital to the success of any organization in the 21st century, and the Department of Communication Arts empowers students to creatively manage professional communication challenges. Graduates learn to use technology, speak effectively, write clearly, question, communicate persuasively, explain, critique, edit, solve problems, innovate, lead, reason, practice ethics, and exceed expectations.

The department prepares students for careers in five areas of specialization: Advertising, Communication, Journalism, Public Relations, and Telecommunications and Film. Communication Arts students have been recognized in a resolution by the State of Florida House of Representatives, won the State Advertising Championship seven times, won more than 100 ADDY Awards for Creative Excellence, won a National Forensic Association National Championship, received numerous accolades from the Southeast Journalism Conference, and been recognized with the Florida Public Relations Association's Golden Image Award multiple times. The department provides students opportunities to extend their classroom education with hands-on skill-building with positions in *Nautilus News*, *The Voyager*, *UWF Forensics*, and a multitude of projects, practica, and community engagement opportunities.

Program Requirements

In addition to the university's general requirements, students seeking the B.A. in Communication Arts must meet the requirements listed below.

A maximum of 6 sh of lower division course work in Communications may be applied to degree requirements. No grade below a "C-" in a Communication Arts course may be applied toward graduation. Internships for a maximum of 3 sh are available in a variety of settings.

No more than 24% of the program requirements for an undergraduate degree in Communication Arts may be in traditional business subjects.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements.

With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 111)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 111)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 111)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 111)

Choose one course from Group A and one additional course from either Group A or Group B	6
Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 111)

Choose one course from Group A and one additional course from either Group A or Group B	6
Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 111)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Students should take SPC 2608 Basic Communication Skills to meet the contemporary values and expression component and MMC 2000 Principles of Mass Communication to meet the socio-political perspectives component.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Total Hours	6
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It is recommended that these courses be taken at the lower division because they are required for the degree.

Advertising majors:

ADV 2214	Advertising Graphics I
JOU 2100	Newspaper Reporting
MMC 2000	Principles of Mass Communication

Communication majors:

SPC 2608	Basic Communication Skills
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Journalism majors:

JOU 2100	Newspaper Reporting
MMC 2000	Principles of Mass Communication

Public Relations majors:

ADV 2214	Advertising Graphics I
JOU 2100	Newspaper Reporting
STA 2023	Elements of Statistics

Telecommunication and Film majors:

MMC 2000	Principles of Mass Communication
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Advertising Specialization

The Advertising Specialization at UWF prepares students to pursue careers with advertising agencies, advertisers, and the media in marketing, account management, media, sales, promotion, and creative design.

Major

ADV 3000	Introduction to Advertising ⁺	3
ADV 3101	Creative Strategy & Tactics I ⁺	3
ADV 3213	Advertising Graphics II ⁺	3
ADV 3300	Advertising Media ⁺	3
ADV 4202	Creative Strategy and Tactics II ⁺	3
ADV 4802	Integrated Communication-Campaigns ⁺	3
PUR 3100	Writing for Public Relations ⁺	3
3000/4000 level Communication Arts electives		12
If not completed at the lower division:		
ADV 2214	Advertising Graphics I	3
JOU 2100	Newspaper Reporting	3
MMC 2000	Principles of Mass Communication	3
Total Hours		42

⁺ Courses included in the major GPA

Recommended electives:

ADV 4801	National Student Advertising Competition [*]	3
SPC 4540	Propaganda and Persuasion [*]	3
COM 4940	Internship in Communication [*]	3
PUR 3000	Principles of Public Relations	3

^{*} Requires one or more prerequisites

Major-Related

Students must complete a minor or its 15 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside communication arts.

Total Hours	18-27
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Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	0-6
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Communication Specialization

The Communication program prepares students to fulfill leadership roles in human resources, event planning, management, and media relations. All Communication graduates earn Leadership Skills Certification.

Required Communication Core

COM 4620	Communication Ethics ⁺	3
SPC 2608	Basic Communication Skills	3
SPC 3605	Speech Writing, Analysis, and Delivery ⁺	3
SPC 3301	Interpersonal Communication ⁺	3
PUR 4800	Communication Research ⁺	3
Total Hours		15

Advanced Communication Courses

Choose 18 hours from course list below		18
Total Hours		18
COM 4014	Gender and Communication ⁺	3
COM 4022	Health Communication ⁺	3
COM 4120	Organizational Communication ⁺	3
COM 4465	Conflict Management ⁺	3
SPC 4540	Propaganda and Persuasion ⁺	3
SPC 4680	Rhetorical Criticism ⁺	3
SPC 4710	Intercultural Communication ⁺	3

Integrated Capstone Experiences

Choose three semester hours from the following:

COM 4103	Leadership Communication	3
COM 4940	Internship in Communication	3
SPC 3593	Practicum in Forensics	3

⁺ Courses included in the major GPA

3000/4000 Level Communication Arts electives

3000/4000 level Communication Arts electives	3-6
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Major-Related

Students must complete a minor or its 15 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside Communication Arts.

Total Hours	18-21
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Journalism Specialization

The Journalism specialization prepares students for responsibilities in contemporary news media.

Major

JOU 2100	Newspaper Reporting	3
JOU 3314	Environmental Reporting ⁺	3
JOU 3342	Media Convergence ⁺	3
JOU 4201	Newspaper Editing ⁺	3
MMC 4201	The Constitution and the Press ⁺	3
If not completed at the lower division:		
MMC 2000	Principles of Mass Communication	
Journalism Track		15
Total Hours		30

Journalism Options

Students must choose one of the following options:

Electronic Media Option

RTV 3533	Television Production ⁺	3
RTV 3301	Broadcast Journalism ⁺	3
RTV 3511	Electronic Field Production ⁺	3
RTV 3942	Practicum: Television News ⁺	3
3000/4000 level Communication Arts elective		3
Total Hours		15

Print Media Option

JOU 3940	Practicum: Voyager ⁺	3
Choose three of the following:		
JOU 3300	Feature Writing ⁺	
JOU 4181	Public Affairs Reporting ⁺	
JOU 4213	Newspaper Design ⁺	
JOU 4306	Writing Critical Reviews ⁺	
JOU 4308	Magazine Writing ⁺	
MMC 3261	Computer Mediated Communication ⁺	
Choose one of the following:		
COM 4940	Internship in Communication ⁺	3
JOU 3940	Practicum: Voyager ⁺	
Total Hours		15

+ Courses included in the major GPA

Major-Related

Students must complete a minor or its 15 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside communication arts.	18-24
Total Hours	18-24

Public Relations Specialization

The Public Relations Specialization at UWF ranked one of the "Top 100 PR Programs in the U.S." This specialization prepares students for communication careers in corporate and organizational settings including health, education, entertainment, sports, and travel. Graduates assume many different roles, including communication director, media specialist, and sports promoter.

Major

ADV 2214	Advertising Graphics I	3
ADV 3213	Advertising Graphics II ⁺	3
PUR 3000	Principles of Public Relations	3
PUR 3100	Writing for Public Relations ⁺	3

PUR 4203	Public Relations Law and Ethics ⁺	3
PUR 4600	Communication Management ⁺	3
PUR 4930	Current Issues and Trends in Public Relations ⁺	3
Choose either one		3
PUR 4400	Crisis Public Relations ⁺	
PUR 4407	Managing Media Relations ⁺	
3000/4000 level Communication Arts elective		9
Choose one of the following		
COM 3948	Service Learning Field Study II ⁺	
COM 4940	Internship in Communication ⁺	
If not completed at the lower division:		0-3
JOU 2100	Newspaper Reporting	
Total Hours		36-39

Major-Related

In addition to the courses listed below, students must complete a minor or its 15 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside communication arts.

PUR 4800	Communication Research ⁺	3
or MAR 4613	Marketing Research	
Students must complete a minor or its 15 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside communication arts.		15
If not completed at the lower division:		
STA 2023	Elements of Statistics	0-3
Total Hours		18-21

+ Courses included in the major GPA

Upper Division Electives

Course List Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	0-6
Total Hours	0-6

Telecommunication and Film Specialization

The Telecommunications and Film program teaches students management and production of the art and craft of television, radio, and film. Future positions for graduates range from news anchor to station manager to filmmaker.

Major

FIL 4102	Writing for Film-Television-Radio	3
MMC 4203	Media Ethics	3
Choose three of the following:		
COM 4940	Internship in Communication	
RTV 3533	Television Production	
RTV 3210	Radio Production	
RTV 3511	Electronic Field Production	
Choose three of the following:		
COM 4620	Communication Ethics	
FIL 4036	History of Motion Pictures I	
FIL 4037	History of Motion Pictures II	
FIL 4364	Documentary Film and Television	
MMC 4201	The Constitution and the Press	
MMC 4300	Global Communication	
RTV 3700	Broadcast Management and Regulation	
Complete the following:		
		3

RTV 3942	Practicum: Television News	
If not completed at the lower division:		0-3
MMC 2000	Principles of Mass Communication	
Total Hours		27-30

SPC 3301	Interpersonal Communication	
If not taken at the lower level:		0-3
SPC 2608	Basic Communication Skills	
Total Hours		12-15

Major-Related

Students must complete a minor or its 15 sh equivalent in a field related to the student's career objectives and additional approved 3000/4000 level electives outside communication arts.	30-33	
Total Hours		30-33

Minors

General Communication

The department offers a Minor in Communication for students from other disciplines in which communication plays a vital role. The minor consists of at least 15 sh of communication arts courses. Communication Arts majors may not earn this minor.

To fulfill the requirements for the minor, a student must complete 15 sh of the required courses in a program of study (advertising, journalism, communication, public relations, telecommunication and film).	15	
Total Hours		15

Leadership Communication

The Leadership Communication program promotes leadership communication competencies, self-confidence, ethical character, and service to others. The program involves hands-on learning activities that empower students to apply and to develop leadership skills in a range of university, community, and professional environments. Students completing the Leadership Communication Minor will also earn a Leadership Certificate, which will be noted on their transcripts. Communication Arts majors may earn the certificate, but not the minor.

Choose one of the following:	3	
SPC 3605	Speech Writing, Analysis, and Delivery	
COM 4103	Leadership Communication	
SPC 4540	Propaganda and Persuasion	
Choose three of the following:	9	
COM 4120	Organizational Communication	
COM 4014	Gender and Communication	
COM 4022	Health Communication	
SPC 3301	Interpersonal Communication	
If not taken at the lower division:	0-3	
SPC 2608	Basic Communication Skills	
Total Hours		12-15

Certificates

Leadership Communication Certificate

The Leadership Communication program promotes leadership communication competencies, self-confidence, ethical character, and service to others. The program involves hands-on learning activities that empower students to apply and to develop leadership skills in a range of university, community, and professional environments.

Choose one of the following:	3
SPC 3605	Speech Writing, Analysis, and Delivery
COM 4103	Leadership Communication
SPC 4540	Propaganda and Persuasion
Choose three of the following:	9
COM 4120	Organizational Communication
COM 4014	Gender and Communication
COM 4022	Health Communication

Community Health Education

This degree program is for students who wish to pursue health careers in public or private health agencies. Health educators are professionals who design, conduct, and evaluate activities to help improve the health of people. These activities take place in a variety of settings: schools, communities, health care facilities, government agencies, businesses, and colleges. Health educators are employed under a range of job titles such as patient educators, health education teachers, trainers, public health/community health educators, community organizers, and health program managers or coordinators. Professional certification to be a Certified Health Education Specialist (CHES) is available through the National Commission for Health Education Credentialing, Inc.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Community Health Education must meet the requirements listed below.

Students should take PSY 2012 General Psychology to satisfy the social science/behavioral perspective component, MAC 1105 College Algebra and STA 2023 Elements of Statistics to satisfy the mathematics component, and BSC 1085 Anatomy and Physiology I with Lab and BSC 1086 Anatomy and Physiology II with Lab to satisfy the natural science component of General Education. For additional information see the General Education section of this Catalog.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 116)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 116)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 116)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology
Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 116)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 116)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 116)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1085+L	Anatomy and Physiology I (+Lab) *	4
BSC 1086+L	Anatomy and Physiology II (+Lab) *	4
PSY 2012	General Psychology *	3
SYG 2000	Introduction to Sociology *	3
STA 2023	Elements of Statistics *	3
SPC 2608	Basic Communication Skills *	3

HSC 2100	Personal Health	3
HSC 2577	Principles of Nutrition	3
Total Hours		26

* Indicates common prerequisites which can be used to satisfy General Education requirements

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		0-18
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Recommend HSC 2100 Personal Health be taken at the lower division.

Major

HSC 3032	Foundations in Health Education +	3
HSC 3535	Introduction to Medical Terminology +	3
HSC 4104	Health Aspects of Stress Management +	3
HSC 4120	Consumer Health Education +	3
HSC 4133	Health Aspects of Human Sexuality +	3
HSC 4143	Drugs in Society +	3
HSC 4211	Human Environmental Health +	3
HSC 4300	Changing Health Behaviors +	3
HSC 4500	Epidemiology +	3
HSC 4551	Communicable and Degenerative Diseases +	3
HSC 4572	Nutrition and Health +	3
HSC 4581	Health Promotion and Planning +	3
HSC 4583	Theoretical Foundations of Health Promotion and Planning +	3
HSC 4633	Current Issues in School-Community Health +	3
Choose one:		6
HSC 4910	Senior Capstone Experience in Community Health Education +	
HSC 4940	Internship +	
Total Hours		48

+ Courses included in the major GPA

Major-Related

PHC 4101	Public Health	3
Choose one:		3-4
APK 3110+L	Exercise Physiology (+Lab)	
COM 4022	Health Communication	
STA 4173	Biostatistics	
Total Hours		6-7

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours		5-6
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Minors

Community Health Promotion

Students earning the Minor in Community Health Promotion will be able to assess individual and community/worksites needs for community health services, develop analytical skills to examine needs assessment

data and determine priority area(s) of community health services, compare and contrast health promotion program planning models and theories for application in a health promotion and wellness setting, and plan and implement effective community health promotion programs. Community Health Education majors may not earn this minor.

HSC 4120	Consumer Health Education	3
Choose one of the following Health Foundations courses:		3
HSC 4133	Health Aspects of Human Sexuality	
HSC 4143	Drugs in Society	
HSC 4551	Communicable and Degenerative Diseases	
Choose one of the following Community Health and Environment courses:		3
HSC 4104	Health Aspects of Stress Management	
HSC 4211	Human Environmental Health	
HSC 4500	Epidemiology	
HSC 4633	Current Issues in School-Community Health	
Choose one of the following Health Care courses:		3
CLP 4314	Health Psychology	
HSC 4300	Changing Health Behaviors	
HSC 4572	Nutrition and Health	
<hr/>		
Total Hours		12

Computer Engineering

The Computer Engineering program at UWF is accredited by the Engineering Accreditation Commission of ABET, Inc. The B.S.C.E prepares students to embark upon a professional career in computer engineering or to begin a graduate program.

Graduates will be known for their accomplishments in the early stage of their careers, and they should be able to do the following:

- Develop computer engineering solutions individually and through interdisciplinary teams within a global and societal context
- Professionally and ethically engage in technical or business activity through engineering ability, communication skills, and knowledge
- Continue professional growth through post-graduate education, continuing education, or professional activity
- Contribute to the Northwest Florida regional economic development

The objective of the program is to provide students with a strong theoretical and practical background in computer hardware and software, along with the engineering analysis, design, and implementation skills necessary to work between the two. A computer engineer is someone with the ability to design a complete computer system—from its circuits to its operating system to the algorithms that run on it. Although it is valid to look at software and hardware separately, a computer engineer must take a more holistic approach. If an electronic device can be called a computer, it must produce mathematically meaningful results. Similarly, any useful theory of computing must be physically realizable. The synthesis of theory and algorithms, which must take place before any useful computing can be achieved, is the job of the computer engineer. To produce such engineers is the mission of this program.

Computer engineering deals with the body of knowledge that forms the theoretical and practical basis for the storage, retrieval, processing, analysis, recognition, and display of information. This area also includes the design and implementation of computer systems and peripheral devices for information handling and engineering applications. The computer engineering curriculum provides a balance of hardware, software, and computer theory and applications with a basic background in electrical engineering. Nine credits of electives are included to permit a student to delve deeply into selected subject matter. Computer engineers find career opportunities in a wide variety of companies or organizations involving the design, development, building, testing, and operation of computer systems. Computer engineers deal with both hardware and software (programming) problems. In designing a computer system, computer engineers must decide how much of the computer logic to put into hardware and how much to put into software. The work of computer engineers and computer scientists overlap and the two are often confused. Computer engineers tend to be more involved with the computer hardware, whereas computer scientists tend to be more involved with the computer software, with less emphasis on hardware.

Program Requirements

Students are required to have a laptop or tablet PC. Students should check with the department for minimum hardware configurations (<http://uwf.edu/ece/undergraduate/Laptop%20or%20Tablet%20PC.doc>). Please visit our website (<http://uwf.edu/ece>) for more information about our program, including a list of department scholarships (<http://uwf.edu/ece/scholarships>) and answers to some frequently asked questions (<http://uwf.edu/ece/faq>).

In addition to the university's general requirements, students seeking the B.S. in Computer Engineering must meet the requirements listed below:

A minimum course grade of "C" or better is required in the Computer Engineering core courses and all computer science courses (COT, CNT, COP prefix), which is all of the following courses:

COP 3014	Algorithm and Program Design	3
COP 3530	Data Structures and Algorithms I	3
COP 4534	Data Structures and Algorithms II	3
COP 4634	Systems & Networks I	3
COP 4635	Systems & Networks II	3
or CNT 4403	Computer and Network Security	
COT 3100	Discrete Structures	3
EEE 3308	Electronic Circuits I	3
EEL 3111	Circuits I	3
EEL 3112	Circuits II	3
EEL 3135	Discrete-Time Signals and Systems	3
EEL 3701+L	Digital Logic and Computer Systems (+Lab)	4
EEL 4744+L	Microprocessor Applications (+Lab)	4

In addition, any courses that are prerequisites to an engineering or computer science course must also be completed with a minimum grade of a "C" prior to taking the course. This includes the following engineering courses and labs:

EGM 4313	Intermediate Engineering Analysis	3
EGN 3204	Engineering Software Tools	1
EEL 4712+L	Digital Design (+Lab)	4
EEE 4308L	Electronics Laboratory	1
EEL 3117L	Electrical Circuits Laboratory	1

Finally, the following 3 courses also require a minimum C grade:

EGN 4950	Capstone Design I	1
EGN 4952L	Capstone Design II	2
STA 4321	Introduction to Mathematical Statistics I	3

Other engineering courses may require a "C" grade if they are prerequisites to the EEL/EEE electives.

Corequisites to a course may be taken the same semester as the course or successfully completed prior to taking the course.

Students should consult with their academic advisor for courses that may satisfy both the General Education requirements and common prerequisites.

The Computer Engineering curriculum is designed to yield a set of outcomes. Each upper division course within the curriculum contributes to at least one of these outcomes. A list of our current outcomes and how they map to our program can be found here (http://uwf.edu/cutla/curriculum_maps--undergraduates/Computer_Engineering_UG.pdf).

All seniors must complete an exit interview and submit a copy of their senior design report before graduating.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 119)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 119)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 119)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 119)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 119)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 119)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

In order to minimize the number of courses required, students should consult with their academic advisor for courses which will satisfy both the General Education requirements and common prerequisites. For example, students can take MAC 2311 Analytic Geometry and Calculus I or MAC 2312 Analytic Geometry and Calculus II to complete the Mathematics requirement. The sciences listed in the Common Prerequisites section will also fulfill the General Education Natural Science requirement. To maximize the overlap, one of the two General Education Electives should be taken in the Natural Sciences, specifically CHM 2045 General Chemistry I CHM 2045L General Chemistry I Laboratory PHY 2048 University Physics I PHY 2048L University Physics I Laboratory PHY 2049 University Physics II PHY 2049L University Physics II LAB.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Students who have not completed the math and science prerequisites will be admitted to Pre-Computer Engineering, then changed to Computer Engineering once they have successfully completed the courses. A minimum of a "C" grade is required in the math and science courses below. In addition, a technical GPA will be calculated using the grades achieved in the latest attempt of each of the 7 courses. This GPA must be a minimum 2.3 average for admission to the program. Note that the labs are required for Physics and Chemistry, but a "C" is not required (although a passing grade is required), nor are they used in the calculation of the technical GPA.

CHM 2045+L	General Chemistry I (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
MAC 2313	Analytic Geometry and Calculus III	4
MAP 2302	Differential Equations	3
PHY 2048+L	University Physics I (+Lab) *	4
PHY 2049+L	University Physics II (+Lab)	4
Total Hours		27

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Note that students may begin taking engineering courses prior to completing all of these math and science prerequisites, but they must complete those math and science courses (with a minimum of a "C" grade) listed as prerequisites to any engineering classes they wish to take.

Major

COP 3014	Algorithm and Program Design *	3
COP 3530	Data Structures and Algorithms I *	3
COP 4534	Data Structures and Algorithms II *	3
COP 4634	Systems & Networks I *	3
COT 3100	Discrete Structures *	3
EEE 3308	Electronic Circuits I *	3
EEE 4308L	Electronics Laboratory *	1
EEL 3111	Circuits I *	3
EEL 3112	Circuits II *	3
EEL 3117L	Electrical Circuits Laboratory	1
EEL 3135	Discrete-Time Signals and Systems *	3
EEL 3701+L	Digital Logic and Computer Systems (+Lab) *	4
EEL 4712+L	Digital Design (+Lab) *	4
EEL 4713	Digital Computer Architecture *	3
EEL 4744+L	Microprocessor Applications (+Lab) *	4
EGM 4313	Intermediate Engineering Analysis *	3
EGN 3204	Engineering Software Tools *	1
EGS 4032	Professional Ethics *	3
EGN 4950	Capstone Design I ^{2, +}	1
EGN 4952L	Capstone Design II ^{2, +}	2

Advisor approved EEL/EEE electives ^{1, +}	12
Choose one of the following	3
EEE 3396 Solid-State Electronic Devices ⁺	
or EEE 4310 VLSI Circuit Design	
Choose one of the following	3
COP 4635 Systems & Networks II ⁺	
or CNT 4403 Computer and Network Security	
Total Hours	72

¹EEL/EEE Elective restrictions: These electives must begin with the EEL or EEE prefix and cannot be otherwise required for the program. Please see your department advisor about current limits for the number of credits of certain repeatable, variable credit courses that will apply to these electives (eg, EEL 4905, EEL 4949, and EEL 4940).

²Note that EGN 4950 Capstone Design I and EGN 4952L Capstone Design II is the senior design project. This final project is the culmination of the engineering education. As such, this sequence of courses must be taken in the last 2 semesters of a student's program. Seniors must see the academic advisor in order to register for them. Note that even though they aren't prerequisites, we highly recommend that our students complete both EEL 4744 (p. 143) Microprocessor Applications and EEE 3308 (p. 143) Electronic Circuits I prior to taking EGN 4950 Capstone Design I.

Major-Related

STA 4321 Introduction to Mathematical Statistics I	3
Advisor-approved Engineering or Computer Science Elective ^{3, +}	3
EGS 1006 Introduction to Engineering ⁴	1
Total Hours	7

³ It is recommended that students who have no programming experience take EEL 4834 or a lower division programming course prior to taking COP 3014 to fulfill this requirement

⁴ Students may take an advisor approved elective in place of introduction to engineering.

+ Courses included in the major GPA

Minors

Computer Engineering

A computer engineering minor provides an opportunity for students majoring in other areas to take a limited number of computer engineering courses to complement their majors. The minor in computer engineering is open to all UWF students with the exception of computer and electrical engineering majors. Students applying for the minor must have a declared major.

Students may not take a course and its prerequisite during the same semester.

Students must complete the common prerequisite courses with a grade of "C" or better in each.

Students seeking the Minor in computer engineering must have a minimum course grade of "C" or better in the required engineering courses and their prerequisites.

Prerequisites

MAC 2311 Analytic Geometry and Calculus I	4
Choose one of the following:	
COP 3014 Algorithm and Program Design	3
or EEL 4834 Programming for Engineers	

Requirements

EEL 3701 Digital Logic and Computer Systems	3
EEL 3701L Digital Logic and Computer Systems Laboratory	1
EEL 4744 Microprocessor Applications	3
EEL 4744L Microprocessor Applications Laboratory	1
EEL 4712 Digital Design	3
EEL 4712L Digital Design Laboratory	1
EEL 4713 Digital Computer Architecture	3
Total Hours	15

Computing and Information Sciences

The B.S. in Computing and Information Sciences is composed of four specializations: Computer Information Systems, Computer Science, Cybersecurity, and Software Engineering. See each specialization for a detailed description.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Computing and Information Sciences must meet the requirements listed below.

A minimum grade of "C-" is required for all major and major-related courses with a cumulative major GPA of 2.5 or higher. Students should consult with their academic advisor for courses which may satisfy both the General Studies requirements and common prerequisites.

Computer Information Systems Specialization

The Computer Information Systems (CIS) specialization integrates the foundation of information systems principles with concepts in modern programming languages, database systems, software engineering principles, and net-centric applications. The focus of this specialization is on problem solving in applications development.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 123)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 123)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 123)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

The following courses are recommended to complete general studies requirements:

Lecture Science	
CGS 2060	Excursions in Computing 3
Humanities/Contemporary Values	
PHI 2603	Ethics in Contemporary Society 3
Mathematics	
STA 2023	Elements of Statistics 3
MAC 2233	Calculus with Business Applications 3
Social Science: Socio-political	
ECO 2013	Principles of Economics Macro 3

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See

the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
COP 2253	Programming Using Java	3
COP 2334	Programming Using C++	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		27

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 0-6

Major

CEN 3031	Software Engineering I +	3
CEN 3032	Software Engineering II +	3
CEN 4400	Introduction to Operations Research +	3
CEN 4721	Human-Computer Interaction +	3
CIS 3512	Software Documentation +	3
CIS 4595C	Capstone Systems Project +	3
CNT 4007C	Theory and Fundamentals of Networks +	3
COP 3022	Intermediate Computer Programming +	3
COP 3813	Internet Programming +	3
COP 4027	Advanced Computer Programming +	3
COP 4610	Theory and Fundamentals of Operating Systems +	3
COP 4710	Database Systems +	3
COP 4856	Distributed Software Architecture I +	3
COT 3100	Discrete Structures +	3
CAP 4770	Data Mining +	3
COP 4723	Database Administration +	3
Total Hours		48

Major-Related

Four 3000/4000 level advisor approved electives + 12
Total Hours 12

+ Courses included in the major GPA

Computer Science Specialization

The Computer Science (CS) specialization emphasizes analytical thinking and problem solving using scientific applications. The degree includes the theoretical foundations of computer science in the study of algorithms, data structures, computer architecture, programming languages, and net-centric computing.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements.

With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 123)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 123)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 123)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

The following courses are recommended to complete general studies requirements:

Humanities/Contemporary Values		
PHI 2603	Ethics in Contemporary Society	3
Mathematics		
MAC 2311	Analytic Geometry and Calculus I	4
MAC 2312	Analytic Geometry and Calculus II	4
Natural Science		
PHY 2048+L	University Physics I (+Lab)	4
PHY 2049+L	University Physics II (+Lab)	4
Social Science: Socio-political		
ECO 2013	Principles of Economics Macro	3

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

COP XXXX	- Introductory programming in Ada, C, C++, Pascal, or equivalent language	3
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
PHY 2048+L	University Physics I (+Lab) *	4
PHY 2049+L	University Physics II (+Lab) *	4
Two science courses for science majors		6
Total Hours		25

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	0-12
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If not taken as a general studies course, CGS 2060 Excursions in Computing is recommended as a lower-division elective.

Major

CDA 3101	Introduction to Computer Organization +	3
COT 3100	Discrete Structures +	3
CIS 4590	Capstone Project I +	3
CIS 4592	Capstone Project II +	3
COP 4710	Database Systems +	3
COP 3014	Algorithm and Program Design +	3
COP 3530	Data Structures and Algorithms I +	3
COP 4020	Programming Languages +	3
COP 4331	Object Oriented Programming +	3
COP 4534	Data Structures and Algorithms II +	3
COP 4634	Systems & Networks I +	3
COP 4635	Systems & Networks II +	3
COT 4420	Theory of Computation +	3
List of pre-approved concentration courses available in the department * , +		12
Total Hours		51

+ Courses included in the major GPA

Major-Related

MAS 3105	Linear Algebra	3
MHF 3202	Set Theory and Mathematical Logic	3
STA 4321	Introduction to Mathematical Statistics I	3
Total Hours		9

* Four courses must be selected from any Computer Science concentration. Students should consult with the CS academic advisor, or their assigned CS faculty advisor, for the courses that satisfy the concentration areas.

Cybersecurity Specialization

The Cybersecurity specialization prepares graduates to be leaders in the protection of data assets and analysis of potential threats to system 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, in local as well as more broadly based domains. The major helps prepare students for careers as information systems security professionals, senior system managers, and system administrators responsible for information systems and security of those systems.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 123)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 123)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 123)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

The following courses are recommended to complete general studies requirements:

Humanities/Contemporary Values		
PHI 2603	Ethics in Contemporary Society	3
Mathematics		
MAC 2311	Analytic Geometry and Calculus I	4
MAC 2312	Analytic Geometry and Calculus II	4
Natural Science		
PHY 2048+L	University Physics I (+Lab)	4
CIS 2530	Introduction to Cyber Security	3
Social Science: Socio-political		
ECO 2013	Principles of Economics Macro	3

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

COP XXXX	- Introductory programming in Java, C, C++ or equivalent language	3
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
PHY 2048+L	University Physics I (+Lab) *	4
CIS 2530	Introduction to Cyber Security	3
STA 2023	Elements of Statistics *	3
One science courses for science majors		3
Total Hours		24

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 0-12

If not taken as a general studies course, the following courses are recommended as lower division electives:

ACG 2021	Principles of Financial Accounting	3
CGS 2060	Excursions in Computing	3
ECO 2023	Principles of Economics Micro	3
SPC 2608	Basic Communication Skills	3

Major

CDA 3101	Introduction to Computer Organization +	3
CEN 4078	Secure Software Development +	3
CIS 4368	Introduction to Database Security +	3
CIS 4385	Ethical Hacking and Penetration Testing +	3
CIS 4595C	Capstone Systems Project +	3
CNT 4403	Computer and Network Security +	3
CNT 4416	Cyber War Gaming +	3
COP 3014	Algorithm and Program Design +	3
COP 3022	Intermediate Computer Programming +	3
COP 3530	Data Structures and Algorithms I +	3
COP 4710	Database Systems +	3
COP 4723	Database Administration +	3
ISM 3323	Information Security Management	3
Choose one group of courses from the following groupings		6

COP 4610	Theory and Fundamentals of Operating Systems +	
CNT 4007C	Theory and Fundamentals of Networks (or) +	
or		
COP 4634	Systems & Networks I +	
COP 4635	Systems & Networks II +	
CTS 4348	Linux System Administration +	3
Total Hours		48

+ Courses included in the major GPA

Major-Related

Four 3000/4000 level advisor approved electives including courses in computer science, electrical and computer engineering, management information systems, criminal justice, applied sciences and industry certification courses. List of approved major-related courses available in the department.

Total Hours 12

Software Engineering Specialization

The Software Engineering (SE) specialization incorporates theoretical foundations of computer science with the study of principles and practices regarding the development of high-quality software systems that meet client needs. This track places emphasis on the development of complex, large-scale software systems, software processes, and project management.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 123)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 123)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 123)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 123)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

The following courses are recommended to complete general studies requirements:

Humanities/Contemporary Values		
PHI 2603	Ethics in Contemporary Society	3
Mathematics		
MAC 2311	Analytic Geometry and Calculus I	4
MAC 2312	Analytic Geometry and Calculus II	4
Natural Science		
PHY 2048+L	University Physics I (+Lab)	4
PHY 2049+L	University Physics II (+Lab)	4
Social Science: Socio-political		
ECO 2013	Principles of Economics Macro	3

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

COP XXXX	- Introductory programming in Ada, C, C++, Pascal, or equivalent language	3
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
PHY 2048+L	University Physics I (+Lab) *	4
PHY 2049+L	University Physics II (+Lab) *	4
Two science courses for science majors		6
Total Hours		25

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives (0-12 sh)

Students must complete sufficient 1000/2000 level electives to complete at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 0-12

If not taken as a general studies course, the following courses are recommended as lower division electives:

ACG 2021	Principles of Financial Accounting	
CGS 2060	Excursions in Computing	
SPC 2608	Basic Communication Skills	
ECO 2023	Principles of Economics Micro	
Total Hours		0-12

If not taken as a general studies course, the following courses are recommended as lower division electives:

ACG 2021	Principles of Financial Accounting	3
CGS 2060	Excursions in Computing	3
ECO 2023	Principles of Economics Micro	3
SPC 2608	Basic Communication Skills	3

Major

CDA 3101	Introduction to Computer Organization *	3
CEN 3031	Software Engineering I *	3
CEN 3032	Software Engineering II *	3
CEN 4053	Software Engineering Management *	3
CEN 4721	Human-Computer Interaction *	3
CEN 4400	Introduction to Operations Research *	3
CIS 4595C	Capstone Systems Project *	3
CIS 4385	Ethical Hacking and Penetration Testing *	3
CNT 4007C	Theory and Fundamentals of Networks *	3
COP 3014	Algorithm and Program Design *	3
COP 3022	Intermediate Computer Programming *	3
COP 3530	Data Structures and Algorithms I *	3
COP 4027	Advanced Computer Programming *	3
COP 4610	Theory and Fundamentals of Operating Systems *	3
COP 4710	Database Systems *	3
COT 3100	Discrete Structures *	3
STA 4321	Introduction to Mathematical Statistics I	3
Total Hours		51

+ Courses included in the major GPA

Major-Related

COM 4110	Business and Professional Communication	3
Total Hours		3

Upper Division Electives

One Departmental Approved Math course or a Science course for science majors	3	
Choose one of the following	3	
COP 4020	Programming Languages	
Computer Science 3000/4000 level course in programming approved by advisor.		
Total Hours		6

Minors

The Department of Computer Science offers three minors: Computer Science, Computer Information Systems, and Information Technology. Students must complete all course work for the minor with a grade of "C-" or higher. See below for specific minor requirements for each.

Computer Science

The Computer Science Minor provides students with knowledge of basic software aspects of computer systems. Fundamentals of programming experience utilizing procedural and object-oriented paradigms prepare students in this minor for software development on a variety of computing platforms. CS, CIS, and SE majors may not earn this minor.

COP 3014	Algorithm and Program Design	3
COP 3530	Data Structures and Algorithms I	3
COP 4634	Systems & Networks I	3
Advisor approved Computer Science elective		3
Choose one of the following:		3
CDA 3101	Introduction to Computer Organization	
COP 4331	Object Oriented Programming	
COP 4534	Data Structures and Algorithms II	
COT 4420	Theory of Computation	
EEL 3701	Digital Logic and Computer Systems	
Total Hours		15

Computer Information Systems

The Computer Information Systems Minor provides students with basic knowledge of the software aspects of computer systems. Students will utilize various software packages and gain programming, database, and web experience that facilitate managing information in net-centric business environments. CS, CIS, and SE majors may not earn this minor.

CEN 4721	Human-Computer Interaction	3
COP 2253	Programming Using Java	3
COP 3022	Intermediate Computer Programming	3
COP 4710	Database Systems	3
COP 4856	Distributed Software Architecture I	3
Choose one of the following:		3-4
MAC 2233	Calculus with Business Applications	
MAC 2311	Analytic Geometry and Calculus I	
Total Hours		18-19

Information Technology

The Information Technology Minor will enable students from all majors to acquire basic knowledge and skills in IT and computer applications. Students will learn the nature and source of electronically stored data, will have the opportunity to learn and apply a variety of software

programs, and will enhance computer skills appropriate to their fields of study. IT, CS, CIS, and SE majors may not earn this minor.

Choose one of the following:		3
CGS 3464	Programming Using Visual Basic for Non-Majors	
COP 2253	Programming Using Java	
COP 2334	Programming Using C++	
Required courses:		
COP 2830	Script Programming	3
CGS 3604	Applications of Information Technology	3
CNT 4014C	IT Administration	3
COP 4710	Database Systems	3
CTS 4817	Web Server Administration	3
Total Hours		18

Certificates

Cybersecurity Certificate

Department: [Computer Science](#)

Method of Instruction: [Classroom](#)

Semester Hours: [15](#)

This certificate program is focused on networking and security, prepares professionals to become Cybersecurity Specialists. In this certificate students develop technical and problem-solving skills to help organizations defend their network systems. The departmental certificate application, available on the Computer Science website, should be submitted before the drop/add period of the semester of completion. All courses must have been completed within 5 years of receipt of application with a grade of "C-" or higher. Cybersecurity majors may not earn this certificate.

CNT 4007C	Theory and Fundamentals of Networks	3
or COP 4634	Systems & Networks I	
COP 4610	Theory and Fundamentals of Operating Systems	3
or COP 4635	Systems & Networks II	
COP 3022	Intermediate Computer Programming	3
Choose two:		6
CNT 4403	Computer and Network Security	
CIS 4368	Introduction to Database Security	
CEN 4078	Secure Software Development	
Total Hours		15

Database Systems Certificate

Department: [Computer Science](#)

Method of Instruction: [Online](#)

Semester Hours: [12](#)

This certificate program is designed to provide both theory and practical knowledge in database design, development and implementation, advanced database concepts, database administration, as well as data mining. In-depth practice in the use of Structure Query Language (SQL) will also be provided. It will prepare one to be a database professional, or work in any other information system career in which knowledge of capturing, storing, retrieving, organizing, and analyzing information is important. The departmental certificate application, available on the Computer Science website, should be submitted before the drop/add period of the semester of completion. All courses must have been completed within 5 years of receipt of application with a grade of "C-" or higher. CIS majors may not earn this certificate.

Choose one of the following Programming prerequisites:	3
CGS 3464 Programming Using Visual Basic for Non-Majors	
COP 2253 Programming Using Java	
COP 2334 Programming Using C++	
Required courses:	
COP 4710 Database Systems	3
CAP 4770 Data Mining	3
COP 4723 Database Administration	3
Total Hours	12

Geospatial Computing Certificate

Department: Environmental Science

Semester Hours: 22

The Certificate in Geospatial Computing combines foundation computer programming, database and web programming concepts with the specialized study of geographic information systems.

This program is designed to address the need for customized GIS desktop and web-based applications related to business, geospatial intelligence, education, healthcare, and numerous other employment fields.

As part of the coursework, students will be provided with the opportunity to become technically proficient in a variety of geospatial technologies and applications through hands-on instruction.

The program focuses on Geographic Information Science, data mining, programming, database concepts, computational modeling, automation, and implementation of customized GIS applications. The proposed courses have been carefully combined to reflect the real-world requirements needed for careers in the geospatial sciences. With 100 percent of the coursework offered online, this program is designed to meet the needs of recent graduates looking to enter the workforce and those working professionals who did not acquire a computational GIS background as part of their primary academic training while they continue to hold their position in their chosen field.

Program Requirements

In addition to meeting general UWF requirements, participants must successfully complete the prescribe courses earning a grade of "C" or better in each course, and secure a combined grade point average of 2.5 or higher for the courses required by the certificate.

GIS 4048 Applications in Geographic Information Systems	3
GIS 4043+L Geographic Information Systems (+Lab)	4
GIS 4930 Special Topics in Geographic Information Science	3
COP 4710 Database Systems	3
Select one of the four programming courses:	3
COP 2253 Programming Using Java	
CGS 3464 Programming Using Visual Basic for Non-Majors	
COP 2334 Programming Using C++	
COP 3990C Programming in Python	
Select one of the following three courses:	3
COP 3813 Internet Programming	
CAP 4770 Data Mining	
CNT 4007C Theory and Fundamentals of Networks	
Select one of the following three courses:	3
GIS 4XXX Advanced GIS Programming	
GIS 4944 GIS Internship	
GIS 4102 GIS Programming	
Total Hours	22

Method of Instruction: [Online](#)

Semester Hours: 12

This certificate program is designed to prepare students, as well as professionals, for promising new careers as webmasters, application developers, designers, and managers of Internet and web technologies. Students will learn basic programming and database skills, how to program the web using PERL/CGI, ASP.NET and ColdFusion, fundamentals and infrastructures of ecommerce applications, how to create and implement applications, how to create dynamic web pages, and about web-database connectivity and SQL basics. The departmental certificate application, available on the Computer Science website, should be submitted before the drop/add period of the semester of completion. All courses must have been completed within 5 years of receipt of application with a grade of "C-" or higher.

Choose one of the following Programming prerequisites:	3
CGS 3464 Programming Using Visual Basic for Non-Majors	
COP 2253 Programming Using Java	
COP 2830 Script Programming	
Required course:	
COP 4710 Database Systems	3
Choose two of the following electives:	6
CIS 4340 Web Server Technologies	
COP 3813 Internet Programming	
CTS 4817 Web Server Administration	
Total Hours	12

Web Development Technologies Certificate

Department: [Computer Science](#)

Criminal Justice

The Criminal Justice program focuses on the issues of law, crime, law enforcement, corrections, and the criminal justice system. The program's primary purpose is to prepare students to assume entry level positions in various criminal justice occupations and to eventually assume administrative responsibilities, to conduct research in the field, or to pursue advanced degrees.

An accelerated bachelors to masters program is available for exceptionally well qualified students. Please see the requirements for this program at the end of the courses requirements section.

Program Requirements

In addition to the university's general requirements, students seeking the B.A. in Criminal Justice must meet the requirements listed below. A minimum grade of "C" is required for all core courses. A minimum GPA of 2.25 is required for admission into the major. CCJ 3024 American Justice System should be taken as the first course in the major. STA 2023 Elements of Statistics is recommended for all majors.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 133)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 133)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 133)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 133)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 133)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

- * May be taken with or without lab.
- ** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.
- *** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives (p. 133)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 24

Total Hours 24

Criminal Justice Major

Criminal Justice Core:		21
CCJ 3014	Criminology +	
CCJ 3024	American Justice System +	
CCJ 4700	Research Design in Criminal Justice +	
CJC 4010	Punishment and Society	
CJE 4110	Police in a Free Society +	

CJL 3510	Judicial Process +	
Choose one:		
CCJ 4939	Criminal Justice Seminar +	
CCJ 4940	Criminal Justice Internship +	
Criminal Justice Major: 21 semester hours of criminal justice (CCJ, CJC, CJE, CJL, CJJ, DSC) 3000/4000 level elective course work beyond the Core Requirements are required. Students can satisfy up to 6 hours of this requirement with service learning, internship, and/or directed study courses (combination of these shall not exceed 6 hours; criminal justice internship taken as part of core requirements shall not count in this category). +		21
Total Hours		42

* 21 semester hours of justice studies 3000/4000 level elective course work beyond the Core Requirements are required. Students can satisfy up to 6 hours of this requirement with service learning, internship, and/or directed study courses (combination of these shall not exceed 6 hours).

+ Courses included in the major GPA

Major-Related

Major-Related Electives **	12
Total Hours	12

** Students are required to complete 12 semester hours of supporting course work, to include a minimum of 6 semester hours of 3000/4000 level courses, to be selected with and approved by the student's advisor. These courses may vary from student to student depending on individual needs and objectives.

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	6
Total Hours	6

The upper-division courses (3000-4000 level) with the following prefixes will be used in calculating the major grade point average: CCJ, CJC, CJE, CJJ, CJL and DSC.

Accelerated Bachelors(B.A.)/Masters (M.S.) in Criminal Justice Option

Minimum Requirements for admission include:

- Overall undergraduate GPA of 3.25 or better
- Completion of 75 undergraduate credit hours
- Undergraduate Major GPA of 3.5 or better
- Completion of all Bachelor of Arts Criminal Justice major core requirements
- A grade of B (3.0) or higher in all BACJ major core classes
- One letter of recommendation from a Criminal Justice or Legal Studies faculty member

Process:

A prospective student who meets the minimum requirements for admission for the Accelerated BA/MSCJ program must schedule a meeting with his/her undergraduate advisor and graduate advisor to discuss and develop a degree plan for his/her Accelerated BA/MSCJ program. The student must then submit an Accelerated BA/MSCJ program application and letter of recommendation to the graduate advisor.

Eligibility and Restrictions:

Students must have completed 75 undergraduate credit hours, including credits earned from advanced placement, prior to applying to the Accelerated BA/MSCJ program. Transfer students must have

completed a minimum of two semesters and at least 24 credit hours at the University of West Florida prior to application to the Accelerated BA/MSCJ program. For admission into the Accelerated BA/MSCJ program in the summer semester, application materials must be submitted by March 15. For admission into the Accelerated BA/MSCJ program in the fall semester, application materials must be submitted by June 15. For admission into the Accelerated BA/MSCJ program in the spring semester, application materials must be submitted by October 15.

Admission into the Accelerated BA/MSCJ program does not guarantee admission into the MSCJ program upon completion of the BACJ. Students must still take the GRE or Miller Analogies Test (MAT) and submit an Express Admission application for the MSCJ program. Students who are a part of the BA/MSCJ program cannot be provisionally or conditionally admitted into the MSCJ program.

Program Requirements:

Upon admission into the MSCJ, the 12 graduate credit hours completed as an undergraduate student will count for 12 of the 24 hours in Criminal Justice coursework for the MSCJ. Students in the Accelerated BA/MSCJ program must earn a grade of B (3.0/4.0) or better in each of the graduate level courses that are being applied to both degrees. Courses completed with a grade of B- or below cannot be applied to the MSCJ degree. Students accepted into the MSCJ program must complete all MSCJ requirements within 18 months of completing the BACJ degree. If the MSCJ program requirements are not completed within 18 months, the student is no longer eligible to apply the graduate credit hours toward both degrees (i.e., the student can only apply the graduate credit hours either toward completion of the BACJ degree or toward a future master's degree) and is automatically terminated from the Accelerated BA/MSCJ program.

If a student in the Accelerated BA/MSCJ program completes the BACJ degree requirements with an overall GPA of less than 3.25/4.0, he/she is no longer eligible to apply the graduate credit hours to both degrees (i.e., the student can only apply the credit hours towards completion of the BACJ degree or toward a future master's degree) and is automatically terminated from the Accelerated BA/MSCJ program.

A student who becomes ineligible to continue participating in or withdraws from the Accelerated BA/MSCJ program cannot apply any graduate credit hours toward both degrees (i.e., the student can only apply the credit hours towards completion of the BA degree or toward a future master's degree).

Students who are enrolled in the Accelerated BA/MSCJ program are eligible for graduate assistantship positions only after completing the BACJ degree.

Minors

CCJ 3024 American Justice System should be taken as the first course in any Criminal Justice minor. Courses must be completed at UWF with a grade of "C" or higher. Requirements may not be met with directed studies courses.

Criminal Justice

The Criminal Justice Minor provides an overview of the criminal justice system. Criminal Justice majors may not earn this minor.

CCJ 3014	Criminology	3
CCJ 3024	American Justice System	3
CJC 4010	Punishment and Society	3
CJE 4110	Police in a Free Society	3

CJL 3510	Judicial Process	3
Total Hours		15

Forensic Studies

The Forensic Studies Minor supplements course work in majors related to criminal justice. It prepares students for careers in investigation as well as graduate study. Criminal Justice majors may not earn this minor.

CCJ 3024	American Justice System	3
CCJ 3654	Drugs, Crime, and Criminal Justice	3
CJE 3674	Introduction to the Forensic Sciences	3
CJE 4610	Criminal Investigation	3
Choose one of the following:		3
CJE 4613	Homicide	
PLA 4309	Criminal Procedure	
Total Hours		15

Juvenile Justice

This is an interdisciplinary minor for students seeking job opportunities in juvenile justice. The minor introduces students to the juvenile justice system, explores issues related to juvenile delinquency, examines alternative programs available for treating delinquency, and teaches students case management skills. The minor is especially compatible with those in social science disciplines and social science-related professional fields. Criminal Justice majors may not earn this minor.

CCJ 3024	American Justice System	3
CJC 4167	Alternative Punishments	3
CJJ 4010	Juvenile Justice	3
SOW 3314	Case Management	3
SOW 4111	Adolescents At Risk	3
Total Hours		15

Economics

The B.A. in Economics is typically of interest to students with strong academic credentials and a desire to make a difference by helping to shape policy in a wide range of areas in society. Economics majors will develop conceptual and analytical skills for making policy-oriented decisions based on analysis of fundamental resource allocation issues. Economists work in a broad range of policy areas and address questions such as the following: What is the best way to fight environmental pollution? What is the appropriate role of government in economy? What rules should govern trade among nations? What is the appropriate economic policy for developing and increasing immigration? What are the effects of tax cuts, budget deficits, and welfare policies on the overall economy? Economists may address fundamental policy issues such as these and others within narrower fields such as health care, agriculture, education, crime, politics, urban and regional development, law, history, energy, and the environment, among many others. The B.A. in Economics is structured to provide the opportunity for students to earn minor degrees in many of these specialized fields.

Most economists are concerned with practical applications of economic policy and work for a wide variety of public, private, and governmental organizations. The job market for individuals with both undergraduate and graduate degrees in economics is robust and tends to be less cyclical than the market for students with many other degrees. The B.A. in Economics provides a comprehensive foundation for students who wish to obtain a graduate degree in economics and is also recognized as excellent preparation for graduate programs such as Law or the MBA.

Students are urged to consult with faculty members associated with the Economics program and its recommended minors for detailed information about the program's academic learning outcomes and to develop an appropriate course of study for their intended career path.

Program Requirements

In addition to the university's general requirements, students seeking the B.A. in Economics must meet the requirements listed below.

A grade of "C" or higher is required for all courses in the Economics core and Economics electives.

No more than 24 percent of the B.A. in Economics may be in traditional business subjects, excluding economics courses. Students who wish to include extensive business coursework in their program should declare the B.S.B.A. Economics (Business) degree program (See Economics, Business (p. 139) section).

Students should consult their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 136)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 136)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 136)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 136)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 136)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 136)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Economics BA majors should take the following courses to satisfy components of the General Education curriculum:

Mathematics

STA 2023	Elements of Statistics	3
MAC 2233	Calculus with Business Applications	3-4
or MAC 2311	Analytic Geometry and Calculus I	

Humanities/Contemporary Values and Expressions

PHI 2010	Introduction to Philosophy	3
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Social Sciences/Socio-political

ECO 2013	Principles of Economics Macro	3
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Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
Total Hours		6

* Indicates common prerequisites which can be used to satisfy General Education requirement.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. Economics majors should include electives that will help to prepare them for potential minor programs of study. Students should consult their academic advisor for guidance in course selection.

Total Hours		18-21
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Major

ECO 3101	Intermediate Microeconomics +	3
ECO 3203	Intermediate Macroeconomics +	3
Choose one of the following:		3
ECO 4431	Business and Economic Forecasting +	
ECO 4704	International Trade and Commercial Policy +	
Six 3000/4000 level ECO or ECP electives *, +		18
ECO 3223	Money and Banking	
ECO 4401	Introduction to Mathematical Economics	
ECO 4431	Business and Economic Forecasting	
ECO 4704	International Trade and Commercial Policy	
ECO 4941	Economics Internship	
ECP 4302	Environmental Economics and Policy	
ECP 4314	Natural Resources Economics	
ECP 4413	Industrial Economics	
ECP 4613	Urban and Regional Economic Development	
ECP 4703	Managerial Economics	
MAR 3714	Sports Markets	
Total Hours		27

+ Courses included in the major GPA

* or ECO 4704 International Trade and Commercial Policy may be used to partially fulfill this requirement if not used to fulfill the Core Requirement. ECO 3003 Principles of Economic Theory and Public Policy may not be used to partially fulfill this requirement.

Upper Division Electives

Students are strongly encouraged to declare minor(s) in one or more of the following fields after consultation with their academic and career advisors: Biology, English, Environmental Studies, Geography, History, International Studies, Mathematics, Philosophy, Political Science, Political Science Pre-Law, and Psychology. Students who plan to pursue a graduate degree in economics should minor in mathematics or take a large number of quantitative/ statistics courses.

Total Hours		33
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Minors

Economic Policy

The Minor in Economic Policy is designed for and only available to non-business majors. It gives students in a wide variety of majors the opportunity to add value to their major degree. It is especially appropriate for students who plan to enter law school or work in political or public policy-oriented career fields. The Economic Policy

Minor requires completion of 15 sh with a grade of "C" or higher. Nine hours of 3000/4000 level economics courses must be taken at UWF.

Four 3000/4000 level economics (ECO or ECP) electives		12
Choose one of the following:		3
ECO 2013	Principles of Economics Macro	
ECO 3003	Principles of Economic Theory and Public Policy	
Total Hours		15

Quantitative Economics

The Minor in Quantitative Economics is available for all students and is designed for those who wish to learn about math-oriented applications of economic theory. It provides students in a wide variety of majors the opportunity to add value to the major degree. It is especially appropriate for students with strong mathematics interests who plan to build a career as an analyst in financial organizations.

The Quantitative Economics Minor requires completion of 18 sh with a grade of "C" or greater in each course. Nine hours of 3000/4000-level economic courses must be taken at UWF.

ECO 2013	Principles of Economics Macro	3
ECO 2023	Principles of Economics Micro	3
ECO 3101	Intermediate Microeconomics	3
ECO 4401	Introduction to Mathematical Economics	3
ECO 4431	Business and Economic Forecasting	3
Choose one of the following:		3
ACG 3082	Accounting for Non-Majors	
FIN 3403	Managerial Finance	
Total Hours		18

Economics, Business

The B.S.B.A. in Business Economics is an included program in the University's accreditation by AACSB International.

The B.S.B.A. in Business Economics is for students interested in economics as it applies to business and government organizations. The program provides students with a comprehensive view of the area of economics in business, allowing them to apply a set of analytical tools to understand the interrelations between the economy and the business environment under different market conditions.

Economics majors develop technical and analytical skills needed for policy oriented decisions in local and global markets, often based on analysis of fundamental resource allocations issues. Economists work in a broad range of areas that include in-depth inquiries, including the following: business strategy (Should we expand into a new market?); societal policies (What is the best way to fight environmental pollution?); and global issues (What rules should govern trade among nations?). Further inquiries are conducted into how trade is affected by the elimination of tariffs and quotas. Students in the B.S.B.A. in Economics actively participate in small projects, such as data analysis and forecasting, intended to provide them with hands-on experience in managerial decision making. Specific topics include healthcare, crime, finance, production, international trade, labor, taxation, politics, the environment, pricing strategies, regulation and deregulation, data analysis and forecasting, and many others.

Many Economics graduates choose to attend graduate school, thereby enhancing their career opportunities. A major in Economics provides outstanding preparation for the M.B.A. degree, and an Economics degree is regarded as an excellent background to study Law or to pursue a Master's in Economics.

Economics students may choose from the following specializations: Comprehensive Economics and Global Economics.

Program Requirements

In addition to general University requirements, students seeking the B.S.B.A. in Economics must meet the requirements listed below. A minimum course grade of "C" is required in all College of Business prerequisites, major, and major-related courses.

Students should consult their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 139)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 139)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 139)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 139)

Choose one course from Group A and one additional course from either Group A or Group B	6
Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 139)

Choose one course from Group A and one additional course from either Group A or Group B	6
Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 139)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Economics BSBA majors should take the following courses to satisfy components of the General Education curriculum courses:

Humanities	3
SPC 2608	Basic Communication Skills
Mathematics	6
STA 2023	Elements of Statistics
MAC 2233	Calculus with Business Applications
Social Sciences	3
ECO 2013	Principles of Economics Macro

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		3-12
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College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Comprehensive Economics Specialization

This specialization prepares students for a broad range of career positions in economics. Students have a great deal of flexibility in structuring their program, subject to advisor approval.

Major

Comprehensive Economics Specialization

ECO 3101	Intermediate Microeconomics +	3
ECO 3203	Intermediate Macroeconomics +	3
Four 3000/4000 Economics (ECO or ECP) level electives +		12
ECO 3223	Money and Banking	
ECO 4401	Introduction to Mathematical Economics	
ECO 4431	Business and Economic Forecasting	
ECO 4704	International Trade and Commercial Policy	
ECO 4941	Economics Internship	
ECP 4302	Environmental Economics and Policy	
ECP 4314	Natural Resources Economics	
ECP 4413	Industrial Economics	
ECP 4613	Urban and Regional Economic Development	
ECP 4703	Managerial Economics	
MAR 3714	Sports Markets	
Total Hours		18

Major-Related

Four 3000/4000 level advisor-approved electives +		12
Total Hours		12

+ Courses included in the major GPA

Global Economics Specialization

This specialization focuses on economic issues in an increasingly globalized market. Students are required to spend at least one semester at one of UWF's partner universities abroad studying economics. This cultural, as well as educational, experience prepares students for positions in international economics and business. Students must complete a specific sequence of courses in this specialization, designed in conjunction with their advisor, at a partner university abroad. To participate in this required part of the specialization, students must have a minimum 2.50 cumulative GPA. It is recommended, but not required, that during their lower division studies, students complete two additional courses in a foreign language beyond the university's foreign language admission requirement.

Major

Global Economics Specialization

ECO 3101	Intermediate Microeconomics +	3
ECO 3203	Intermediate Macroeconomics +	3
ECO 4704	International Trade and Commercial Policy +	3
3000/4000 level economics elective +		3
Three advisor-approved Economic courses taken at a UWF partner university abroad +		9
ECO 3223	Money and Banking	
ECO 4401	Introduction to Mathematical Economics	
ECO 4431	Business and Economic Forecasting	
ECO 4941	Economics Internship	
ECP 4302	Environmental Economics and Policy	

ECP 4314	Natural Resources Economics	
ECP 4413	Industrial Economics	
ECP 4613	Urban and Regional Economic Development	
ECP 4703	Managerial Economics	
MAR 3714	Sports Markets	
Total Hours		21

Major-Related

3000/4000 level Economics (ECO or ECP) electives ⁺ 9

+ Courses included in the major GPA

Minors

Business Economics

The Business Economics Minor, although accessible to any student, is designed for students with a business major other than Economics. The Business Economics Minor requires completion of 18 sh with a grade in each course of "C" or higher. Nine hours of 3000/4000 level economics courses must be taken at UWF.

ACG 2021	Principles of Financial Accounting	3
ECO 2013	Principles of Economics Macro	3
Four 3000/4000 level economics (ECO or ECP) electives		12
Total Hours		18

Electrical Engineering

The Electrical Engineering Program at UWF is accredited by the Engineering Accreditation Commission of ABET, Inc. The B.S.E.E is provided by the Department of Electrical and Computer Engineering (ECE), whose mission statement is to offer baccalaureate degree programs in electrical and computer engineering which serve the needs of the West Florida region, the State, and the nation.

The goal of the baccalaureate degree program is to prepare students to embark upon a professional career in electrical engineering or to begin a graduate study. Graduates will be known for their accomplishments in the early stage of their careers and they should:

- Develop electrical engineering solutions individually and through interdisciplinary teams within a global and societal context.
- Professionally and ethically engage in technical or business activity through engineering ability, communication skills, and knowledge.
- Continue professional growth through post-graduate education, continuing education, or professional activity.
- Contribute to the Northwest Florida regional economic development.

Electrical Engineering is science-oriented and primarily concerned with all phases and development of the transmission and utilization of electric energy and intelligence. Because of the extremely rapid growth and changes relating to the application of electrical engineering principles, the curriculum is designed to concentrate on a solid core of foundation courses. Twelve hours of electives are included to permit a student to delve deeply into selected subject matter.

Electrical Engineers find career opportunities in a wide area of settings such as aerospace contractors, manufacturers of consumer electronics, telecommunications, energy distribution, and public-sector positions with federal, state, and local governments.

Program Requirements

Students are required to have a laptop or tablet PC. Students should check with the department for minimum hardware configurations (<http://uwf.edu/ece/undergraduate/Laptop%20or%20Tablet%20PC.doc>). Please visit our website (<http://uwf.edu/ece>) for more information about our program, including a list of department scholarships (<http://uwf.edu/ece/scholarships>) and answers to some frequently asked questions (<http://uwf.edu/ece/faq>).

In addition to the university's general requirements, students seeking the B.S.E.E. must meet the requirements listed below.

A minimum course grade of "C" or better is required in all math, science, and engineering courses that serve as prerequisites to EGN, EGM, EEL, and EEE prefixed courses and labs. In addition, a minimum "C" grade is required for the following electrical engineering core courses:

EEE 3308	Electronic Circuits I	3
EEL 3111	Circuits I	3
EEL 3112	Circuits II	3
EEL 3135	Discrete-Time Signals and Systems	3
EEL 3472	Electromagnetic Fields and Applications I	3
EEL 3701	Digital Logic and Computer Systems	3

Due to their status as prerequisites to EGN, EEL, or EEE courses and labs, the following engineering courses also require a minimum grade of a "C":

EEE 4308L	Electronics Laboratory	1
EEL 3117L	Electrical Circuits Laboratory	1
EEL 3701L	Digital Logic and Computer Systems Laboratory	1
EEL 4834	Programming for Engineers	3
EGM 4313	Intermediate Engineering Analysis	3
EGN 3204	Engineering Software Tools	1

Finally, a minimum grade of "C" is also required in:

STA 4321	Introduction to Mathematical Statistics I	3
EGN 4950	Capstone Design I	1
EGN 4952L	Capstone Design II	2

Other engineering courses may require a "C" grade if they are prerequisites to the EEL/EEE electives that you choose to take.

The electrical engineering curriculum is designed to yield a set of outcomes. Each upper division course in the program contributes to at least one of these outcomes. A current list of our program outcomes and the courses that map to them can be found here (http://uwf.edu/cutla/curriculum_maps--undergraduates/Electrical_Engineering_UG.pdf).

All students must complete an exit interview with their advisor and submit a copy of their senior design report before graduating.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 143)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 143)

Choose one course from Group A and one Additional course from either Group A or Group B		6
Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 143)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 143)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 143)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 143)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

In order to minimize the number of courses required, students should consult with their academic advisor for courses which will satisfy both the General Education requirements and common prerequisites. For example, students can take MAC 2311 Analytic Geometry and Calculus I or MAC 2312 Analytic Geometry and Calculus II to complete the Mathematics requirement. The sciences listed in the Common Prerequisites section will also fulfill the General Education Natural Science requirement. To maximize the overlap, one of the two General Education Electives should be taken in the Natural Sciences, specifically CHM 2045 General Chemistry I CHM 2045L General Chemistry I Laboratory PHY 2048 University Physics I PHY 2048L University Physics I Labor PHY 2049 University Physics II PHY 2049L University Physics II LAB.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Students who have not completed the math and science prerequisites will be admitted to Pre-Electrical Engineering, then changed to Electrical Engineering once they have successfully completed the courses. A minimum of a "C" grade is required in the math and science courses below. In addition, a technical GPA will be calculated using the grades achieved in the latest attempt of each of the 7 courses. This GPA must be a minimum 2.3 average for admission to the program. Note that the labs are required for Physics and Chemistry, but a "C" is not required (although a passing grade is required), nor are they used in the calculation of the technical GPA.

CHM 2045+L	General Chemistry I (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
MAC 2313	Analytic Geometry and Calculus III	4
MAP 2302	Differential Equations	3
PHY 2048+L	University Physics I (+Lab) *	4
PHY 2049+L	University Physics II (+Lab)	4
Total Hours		27

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Note that students may begin taking engineering courses prior to completing all of these math and science prerequisites, but they must complete those math and science courses (with a minimum of a "C" grade) listed as prerequisites to any engineering classes they wish to take.

Major

EEE 3308+L	Electronic Circuits I (+Lab) +	4
EEE 4306+L	Electronic Circuits II (+Lab) +	4
EEL 3111+L	Circuits I (+Lab) +	4
EEL 3112	Circuits II +	3
EEL 3135	Discrete-Time Signals and Systems +	3
EEL 3211	Basic Electric Energy Engineering +	3
EEL 3472	Electromagnetic Fields and Applications I +	3
EEL 3701+L	Digital Logic and Computer Systems (+Lab) +	4
EEL 4514+L	Communication Systems and Components (+Lab) +	4
EEL 4657+L	Linear Control Systems (+Lab) +	4
EEL 4744+L	Microprocessor Applications (+Lab) +	4
EEL 4834	Programming for Engineers +	3
EGM 2500	Engineering Mechanics-Statics +	2
EGM 4313	Intermediate Engineering Analysis +	3
EGN 3204	Engineering Software Tools +	1
EGN 4950	Capstone Design I +	1
EGN 4952L	Capstone Design II +	2
EGS 4032	Professional Ethics +	3
EEL/EEE Electives ^{1, +}		12
Choose one of the following		3

EEE 3396	Solid-State Electronic Devices +
or EEE 4310	VLSI Circuit Design

Total Hours 70

¹EEL/EEE Elective restrictions: These electives must begin with the EEL or EEE prefix and cannot be otherwise required for the program. A maximum of 3 sh in EEL 4949, 3 sh in EEL 4905, and 2 sh of EEL 4940 Engineering Internship will be accepted as EEL/EEE elective credits. In addition, combined experiential learning credits (EEL 4940 Engineering Internship and EEL 4949) are limited to a maximum of 3 credits toward electives. Consult the department for the current list of approved EEL/EEE Elective courses.

²Note that EGN 4950 Capstone Design I and EGN 4952L Capstone Design II is the senior design project. This final project is the culmination of the engineering education. As such, this sequence of courses must be taken in the last 2 semesters of a student's program. Seniors must see the academic advisor in order to register for them. Note that even though they aren't prerequisites, we highly recommend that our students complete both EEL 4744 (p. 143) Microprocessor Applications and EEE 3308 (p. 143) Electronic Circuits I prior to taking EGN 4950 Capstone Design I.

Major-Related

Consult the department for the current list of approved professional development elective courses.

STA 4321	Introduction to Mathematical Statistics I	3
Advisor-approved professional development elective ³		3
General Engineering elective, choose one of the following: ⁴		3
EGM 3401	Engineering Mechanics-Dynamics +	
or EIN 4354	Engineering Economy	
Total Hours		9

³Work with your academic advisor to choose an elective that will aid you in your career objectives. Typical courses for this elective include, but are not limited to, CIS 3512 Software Documentation, PHY 4513 Thermodynamics and Kinetic Theory, ENC 3250 Professional Writing, ENC 3240 Technical Writing, EGS 1006 Introduction to Engineering, and additional EEL/EEE elective credits beyond that 12 required above. Students who take both EGM 3401 Engineering Mechanics-Dynamics and EIN 4354 Engineering Economy can use one as their general engineering elective and the other as their professional development elective.

⁴ Other courses from ABET accredited engineering programs may also be acceptable. See the department advisor for course evaluation.

+ Courses included in the major GPA

Minors

Electrical Engineering

The Minor in Electrical Engineering provides an opportunity for students majoring in other areas to take a limited number of electrical engineering courses to complement their majors. The Minor in Electrical Engineering is open to all UWF students with the exception of computer and electrical engineering majors. Students applying for the minor must have a declared major. Students may not take a course and its prerequisite during the same semester. Students must complete all seven common prerequisite courses with a grade of "C" or better in each technical course with an overall GPA of 2.3 (4.0 scale)

by the term they are admitted. Laboratories are required for chemistry and both physics courses, but the grades are not considered in the technical GPA. Only the last attempt will be considered in computing the technical GPA for admission.

Students seeking the Minor in Electrical Engineering must have a minimum course grade of "C" or better in all electrical engineering courses and prerequisites to other EEL/EEE prefixed courses and labs.

Students in the minor may take MAS 3105 Linear Algebra or its equivalent or PHZ 4113 Mathematical Physics I instead of EGM 4313 Intermediate Engineering Analysis as a prerequisite or corequisite for EEL 3112 Circuits II

EEL 3111+L	Circuits I (+Lab)	4
EEL 3112	Circuits II	3
EEE 3308+L	Electronic Circuits I (+Lab)	4
EGN 3204	Engineering Software Tools	1
3000/4000 EEL/EEE elective		3
<hr/>		
Total Hours		15

Elementary Education

The B.A. in Elementary Education leads directly to Florida teacher certification in Elementary Education for Kindergarten through Grade 6 with ESOL and Reading Endorsements. All Elementary Education students are initially assigned to an Elementary Education pending major until they complete the requirements listed in Admission to Teacher Education. Students interested in certification in Elementary Education and Exceptional Student Education should review the Exceptional Student Education major in this catalog (<http://catalog.uwf.edu/undergraduate/exceptionalstudenteducation>).

Students interested in teaching at the middle or secondary level will complete their baccalaureate degrees in the discipline and are encouraged to review the Teacher Education Programs section of this catalog (<http://catalog.uwf.edu/undergraduate/teachereducation>) for additional information. Prospective middle and secondary education teachers will complete Florida certification requirements through alternative certification.

Responsibility for the teacher education programs at The University rests with the Dean of the College of Education and Professional Studies, who is the head of the Professional Education Unit.

Requirements for teacher education programs may change due to legislative mandates. Therefore, the actual program requirements may differ from those listed in the catalog. Candidates must inquire with the Chair or an advisor in the Department of Teacher Education and Education Leadership to obtain the most current program requirements. Students seeking initial certification must be degree-seeking.

Fingerprinting is required for any placement in a school (including the field experience associated with EDF 1005). The Student Affidavit and Fingerprinting Application are required before any student can be placed in a school for Field Experiences or Student Teaching. Forms are available from the local school districts.

Admission to Teacher Education

Students entering UWF or declaring a major in Teacher Education will automatically be placed in a pending status until they meet the requirements for admission to teacher education. This pending status allows the unit to carefully monitor student progress through teacher education programs. Careful monitoring will ensure that knowledge, skills and/or dispositional deficits of pre-service teachers can be identified in a timely manner so that students can be provided additional support through the Culture of Achievement through a System of Tiered support (CAST) Process.

Students must successfully complete the following requirements:

- Have a cumulative GPA of 2.50 in all previously attempted college work;
- Pass the General Knowledge Test of the Florida Teacher Certification Exam;
- Complete an Application for Admission to Teacher Education which includes a self-rating scale of their disposition towards teaching;
- Complete the orientation requirement; and
- Review of the items above by one of the faculty members in the Department of Teacher Education and Education Leadership and approval by the Chair.

Those who do not complete these requirements in that period may be denied further registration, and an enrollment hold may be placed preventing any future enrollment in education courses.

Prospective teachers 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. Teacher candidates who are struggling to meet content and/or disposition standards and/or competencies may be referred to the CAST process. Any student who is referred to the CAST process and does not successfully complete the support/intervention process may be denied continued enrollment in any professional education program.

All approvals for admission to teacher candidacy are provisional and 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.

Readmission to Teacher Education

Readmission into a teacher education program requires the student to meet standards for Council for the Accreditation of Educator Preparation (CAEP) , the Florida Department of Education (FDOE) and the University. Readmitted students will be required to complete the degree plan in effect at the time of readmission and to meet the requirements for admission to teacher education in effect at the time of readmission.

Course work completed prior to readmission will be reviewed for compliance with current CAEP, FDOE, and University requirements. Students will be required to retake courses not in compliance with these requirements.

Admission to Student Teaching

The student teaching program, administered through the Department of Teacher Education and Education Leadership, consists of one semester of student teaching or two semesters of internship supervised by a highly qualified teacher who has completed Clinical Educator Training. The student teaching/internship experience is scheduled during the student's senior year.

Requirements for admission to student teaching/internship include the following:

- Full admission to teacher education;
- A minimum GPA of 2.5 in teacher education (major) courses. A grade below "C-" cannot be used to satisfy a program requirement;
- Completion of specialization courses required in the major, if applicable, (see the section of this catalog related to the appropriate specialization for specific course requirements);
- Pass the general knowledge, professional, and subject area tests of the Florida Teacher Certification Examination;
- Successful completion of the State of Florida Educator Accomplished Practices; and
- Recommendation of the student's academic advisor and approval of the Chair of the Department of Teacher Education and Education Leadership

During the time a student is engaged in student teaching, any outside employment or additional academic work except senior seminar must be approved by the Chair of the Department of Teacher Education and Education Leadership.

Title II Reports

In compliance with the Higher Education Act, annual reports about teacher preparation in the state are available online (<https://title2.ed.gov/View.asp>). Select the appropriate year from the left column of the webpage and then click on Florida.

Program Requirements

Candidates for admission to the NCATE/DOE approved teacher education specialization must meet and complete admission requirements detailed above. In addition to general University requirements, students seeking the B.A. in Elementary Education must meet the following requirements.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 147)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 147)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 147)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 147)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
ARH 1000	Art Appreciation	
LIT 2000	Introduction to Literature	
MUL 2010	Music Appreciation	
PHI 2010	Introduction to Philosophy	
THE 2000	The Theatre Experience	
Group B		
AML 2072	Sex, Money, and Power in American Literature	
ARH 2050	Western Survey I: Greek to Renaissance	
ARH 2051	Western Survey II: Baroque to Contemporary	
ART 1015C	Exploring Artistic Vision	
ART 2821	Art and Visual Culture Today	
IDH 1040	Honors Core 1	
MUH 2930	The Music Experience: Special Topics	
PHI 2103	Critical Thinking	
PHI 2603	Ethics in Contemporary Society	
REL 1300	World Religions	
THE 2300	Survey of Dramatic Literature	
SPC 2608	Basic Communication Skills	

Natural Sciences (p. 147)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 147)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
Total Hours		9

In addition to EDF 2085 Teaching Diverse Populations, a minimum of 6 sh with an international or diversity focus is required. Eligible courses will be determined by the Florida public college or university where

the student is currently earning the A.A. or B.S. Foreign language courses may be used to meet this requirement. Any course identified as meeting UWF's Multicultural Requirement will fulfill this 6 sh requirement.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 15

Total Hours 15

Elementary Education Certification Specialization

The DOE approved Elementary Education Certification Specialization leads directly to Florida DOE teacher certification in Elementary Education for Kindergarten through Grade 6 with ESOL and Reading Endorsements and is part of the CAEP accredited Professional Education Unit. Students must successfully complete the Florida Teacher Certification Exam in Elementary Education, General Knowledge, and Professional Education.

Major

ARE 3313C	Teaching of Art in the Elementary School	2
EDE 3942	Field Experience I +	3
EDE 4200	Planning and Curriculum I +	3
EDE 4201	Planning and Curriculum II +	3
EDE 4302	Instruction, Management, and Assessment-Elementary +	3
EDE 4421	Educational Assessment +	3
EDE 4944	Field Experience 2 +	3
EDF 3234	Applied Foundations of Education +	3
EEX 3070	Methods in Inclusion and Collaboration +	3
EME 3410	Emerging Technology in the Classroom +	1
HLP 4722	Health/Physical Education for Elementary School Teachers	3
LAE 3314	Literacy for the Emergent Learner +	3
MAE 4310	Teaching Mathematics in the Elementary School +	3
MUE 3210	Music for the Elementary School Teacher	2
RED 3310	Literacy Instruction for the Intermediate Learner +	3
RED 4542C	Assessment and Differentiated Instruction in Reading +	3
SCE 4310	Teaching Science in the Elementary School +	3
SSE 4113	Social Studies for Elementary Teachers +	3
TSL 4080	ESOL Principles and Practices +	3
TSL 4081	Empowering Teachers to Teach English to ESOL Students +	3

Students must choose one of the following student teaching options: 12

Option 1		
EDG 4936	Senior Seminar +	
EDG 4940	Student Teaching +	
Option 2		
EDG 4936	Senior Seminar +	
EDG 4941	Teaching Internship I +	
EDG 4942	Teaching Internship II +	
Total Hours		68

+ Courses included in the major GPA

Minors

Early Childhood Education

The Early Childhood Minor is designed to provide skills and understandings necessary to work with the youngest children we teach, Preschool and primary grades children. As a Minor within the Elementary Education Program, upon completion, the graduate will be prepared to work with very young children in public school, Headstart and early Headstart, prekindergarten and prekindergarten disabilities programs, child care and education centers and various agencies that serve young children. The FDOE approved Elementary education degree results in Florida DOE certification in grades K-6. Completion of this minor and passing of required testing will allow students to add a Prekindergarten/Primary endorsement to the Elementary teaching certificate.

Requirements

A minimum cumulative GPA of 2.50 is required to enroll in the minor. Students must earn a "C-" or higher in each course and a cumulative 2.50 in the minor.

Prospective teachers 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. Teacher candidates who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through a System of Tiered support (CAST) process. Any student who is referred to CAST and does not successfully complete the intervention process may be denied continued enrollment in the minor.

Course Requirements

Advisor Approved Elective	12
<hr/>	
Total Hours	12

Engineering Technology

The B.S. in Engineering Technology prepares graduates for a variety of engineering associated positions with industry.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Engineering Technology must meet the requirements listed below.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites. A minimum grade of "C-" is required in major courses.

Building Construction Specialization

The Building Construction specialization examines construction of all types and prepares the student for career roles such as project manager and estimator. The program teaches methodologies for managing cost control and processes through courses in contracting, scheduling, and business management. A combination of all coursework applies to any graduate who desires to sit for the residential or general contractor's exam.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 151)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 151)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 151)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 151)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 151)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 151)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
MAC 1105	College Algebra	3
MAC 1114	Trigonometry *	3
MAC 1140	Precalculus Algebra *	3
MAC 2311	Analytic Geometry and Calculus I *	4
PHY 2053	General Physics I *	3

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 0-12

Recommended elective include:

CGS 2570	Personal Computer Applications	3
Major		
ETD 2320	Computer Aided Design +	3
BCN 2272	Blueprint Reading +	3
BCN 2405	Statics and Strength of Materials +	3
BCN 3224	Construction Materials and Method +	3
BCN 3281C	Construction Survey and Building Layout +	3
BCN 3561	Construction Mechanics I +	3
BCN 3590	Sustainable Construction +	3
BCN 3731	Construction Safety +	3
BCN 3762	Building Codes +	3
BCN 3767	CDT Prep Course: Construction Documents +	3
BCN 4773	Construction Finance and Controls +	3
BCN 4258C	Project Conceptualization +	3
BCN 4431	Structures +	3
BCN 4461	Soils, Concrete, and Masonry +	3
BCN 4564	Construction Mechanics II +	3
BCN 4701	Construction Administration +	3
BCN 4720C	Scheduling +	3
BCN 4940	Construction Internship/Senior Project +	3
EGR 3613	Principles of Engineering Economy +	3
ETI 3445	Construction Estimating +	3
Total Hours		60

+ Courses included in the major GPA

Information Engineering Technology Specialization

The Information Engineering Technology specialization prepares individuals to assume roles in network, telecommunications, and instructional systems support in a wide variety of organizations, including those with main missions in training, education, and distance learning. These roles include design, development, implementation, maintenance, and adaptation of technologies to meet the organizational goals. The program is designed for delivery at a distance and exploits technology to offer learners opportunity to pursue the degree even when regular attendance is problematic or relocation is necessary.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of

general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 151)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 151)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 151)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 151)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 151)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 151)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 24

Total Hours 24

Major

Engineering Technology Core

EGN 3613	Principles of Engineering Economy +	3
EME 4944	Internship/Practica +	3
ETD 2320	Computer Aided Design	3
Total Hours		9

Information Engineering Technology Specialization

EME 3402	Information Technology Implementation Case Studies +	3
EME 3406	Web Presence Deployment Strategies +	4
EME 4454	Technology Systems Implementation Strategies +	3
EME 4622	Technology Systems Operations 1 +	4
EME 4627	Technology Systems Operations 2 +	4
Total Hours		18

Major-Related

ENC 3250	Professional Writing	3
MAC 2311	Analytic Geometry and Calculus I	4
COP 4710	Database Systems +	3
Choose one of the following:		3

PHI 2603	Ethics in Contemporary Society	
SPC 2608	Basic Communication Skills	

Choose one of the following: 3

ISM 3011	e-Business Systems Fundamentals	
ISM 4300	Systems Planning, Design and Control	
MAN 3025	Management Fundamentals	

Choose one of the following: 3

CGS 3464	Programming Using Visual Basic for Non-Majors	
COP 2253	Programming Using Java	
COP 2334	Programming Using C++	

Total Hours 19

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater. 14

Total Hours 14

Minors

Building Construction

Construction Specialization majors may not earn this minor.

BCN 3224	Construction Materials and Method	3
BCN 3731	Construction Safety	3
BCN 3762	Building Codes	3
BCN 3767	CDT Prep Course: Construction Documents	3
BCN 4701	Construction Administration	3
Total Hours		15

Certificates

Intelligence Analysis Certificate

Department: Instructional, Workforce and Applied Technology

Method of Instruction: Online

Semester Hours: 12-15

This certificate will be used to enhance awareness of Cyber Security to our students and the community. This certificate is a complementary initiative to certificates proposed by the Department of Management and Management Information Systems and Department of Computer Science.

EME 3003	Introduction to Intelligence Analysis	3
EME 3002	Introduction to Intelligence	3
EME 4474	Social Network Analysis	3

EME 4001	Geospatial Analysis	3
Recommended Option:		
GIS 4035	Photo Interpretation and Remote Sensing	3
GIS 4035L	Photo Interpretation and Remote Sensing Lab	1

Technology Systems Support Certificate

Department: Instructional, Workforce and Applied Technology

Method of Instruction: Online

Semester Hours: 18

This certificate, in conjunction with an earned A.A. or A.S. degree, meets the educational requirements for many of the technology-related job classes found in the State of Florida Career Service Classification Plan and the Bureau of Labor Statistics' Standard Occupational Classification.

EME 3402	Information Technology Implementation Case Studies	3
EME 3406	Web Presence Deployment Strategies	4
EME 4454	Technology Systems Implementation Strategies	3
EME 4622	Technology Systems Operations 1	4
EME 4627	Technology Systems Operations 2	4
Total Hours		18

English

The B.A. in English prepares students to be a part of an increasingly diverse population of critically trained readers and writers to be leaders in both the business and academic worlds. As the core of a liberal arts education, the study of language and literature fosters critical thinking, free inquiry, creativity, and clear and candid communication. In addition to its primary benefits to the life of the mind, the English major offers practical preparation for professional careers in teaching, professional writing, law, medicine, business, editing, religious affairs, the nonprofit sector, and all levels of government service. The study of literature includes contemporary texts as well as all the historical periods of British and American literature. The study of writing allows students not only to work in the familiar genres of poetry, fiction, drama, and the essay, but also to study the editorial and publishing process. Courses in the English major contribute to the student's understanding of human culture and of the relationship between literary texts and other bodies of human knowledge such as philosophy, history, religion, psychology, classics, and modern languages. The Department of English offers two areas of specialization within the major: Liberal Arts and Writing.

Students interested in obtaining certification to teach English in secondary education need to contact an advisor in this department to plan course work that will satisfy degree and teacher certification requirements. A degree in this major is required for participation in teacher education certification options in English.

Program Requirements

In addition to the university's general requirements, students seeking the B.A. in English must meet the requirements listed below.

Students should consult their academic advisors for courses which may satisfy both the General Education requirements and common prerequisites. A minimum grade of "C" is required in common prerequisites and major courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 156)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 156)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 156)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 156)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 156)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 156)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Choose one of the following options: 6

Option 1

ENC 1101	English Composition I *
ENC 1102	English Composition II *

Option 2

Six semester hours of English coursework in which the student is required to demonstrate college-level English skills through multiple assignments

Total Hours 6

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 24

English Liberal Arts Specialization

The Liberal Arts Specialization prepares students for graduate-level work in English; provides students with valuable pre-law, pre-medical, and other pre-professional training; and gives students solid preparation for careers in such areas as business, communications, or government service.

Major

ENG 3010	Critical Methods for Literary Study +	3
LIN 3673	Practical Grammar for Pre-Professionals	3
ENC 3350	Advanced Writing Studio	1
ENG 4013	Introduction to Literary Theory +	3
ENG 4934	Capstone Experience (* A one-semester internship (ENC4940) of 3 s.h. approved by the Department may be an alternative avenue for fulfilling the capstone requirement.) +	3
Choose one of the following:		3
AML 2010	American Literature I	
ENL 2010	History of English Literature I	
Choose one of the following:		3
AML 2020	American Literature II	
ENL 2020	History of English Literature II	
Choose one of the following:		3
ENG 4060	HISTORY OF THE ENGLISH LANGUAGE +	
ENL 4203	Old English Language +	
ENL 4210	Topics in Medieval Literature +	
ENL 4224	Topics in Early Modern Literature +	
ENL 4341	Milton	
ENL 4311	Chaucer	
ENL 4333	Shakespeare	
Choose one of the following:		3
ENL 4240	Topics in Romantic Literature +	
ENL 4234	Topics in Eighteenth-Century British Literature +	
ENL 4251	Topics in Victorian Literature +	
ENL 4284	Topics in 20th-Century and Contemporary British Literature +	
ENL 4303	Single Author Seminar, British Literature, 1700 to the Present	
Choose one of the following:		3
AML 4014	Topics in Early American Literature +	
AML 4015	Topics in Nineteenth-Century American Literature +	
AML 4054	Topics in Twentieth-Century and Contemporary American Literature +	
AML 4302	Single Author Seminar, American Literature, 1700 to the Present	
Choose one of the following:		3

AML 3604	African American Literature +	
AML 3624	Black Women Writers +	
LIT 3191	World Literature	
ENG 3843	Theories of Sexuality and Gender +	
LIT 3233	Postcolonial Literature +	
LIT 4385	Feminist Theory +	
AML 4640	Topics in Native American Literature	
Specialization Electives *		12
Total Hours		43

* 12 sh in the field not previously completed consisting of 3000/4000 level courses with AML, CRW, ENC, ENG, ENL, LAE, LIN, or LIT prefixes +

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours 17

English Writing Specialization

The English Writing specialization offers students experience in writing beyond that gained in the core courses in literature. Students who choose to develop their creative writing skills can take courses in poetry, short fiction, and creative nonfiction. The department publishes two literature magazines: *Panhandler*, which features creative work from professional writers throughout the country, and *The Troubadour*, a poetry and short fiction magazine written and edited entirely by students. Students who choose to develop their writing and editing skills can gain the experience needed for jobs in the publishing industry or in writing-intensive careers in business or government. English Writing specialization students may also gain journalistic experience by writing for *The Voyager*, the campus newspaper. Internships on campus or in the community offer additional preparation for careers in writing or editing.

Major

ENG 3010	Critical Methods for Literary Study +	3
LIN 3673	Practical Grammar for Pre-Professionals +	3
ENC 3350	Advanced Writing Studio	1
ENG 4934	Capstone Experience (A one-semester internship (ENC4940) of 3 s.h. approved by the Department may be an alternative avenue for fulfilling the capstone requirement.)	3
Choose one of the following:		3
AML 2010	American Literature I	
ENL 2010	History of English Literature I	
Choose one of the following:		3
AML 2020	American Literature II	
ENL 2020	History of English Literature II	
Choose one of the following:		3
ENL 4203	Old English Language +	
ENG 4060	HISTORY OF THE ENGLISH LANGUAGE +	
ENL 4210	Topics in Medieval Literature +	
ENL 4224	Topics in Early Modern Literature +	
ENL 4311	Chaucer	
ENL 4333	Shakespeare	
ENL 4341	Milton	

Choose one of the following: 3

ENL 4234	Topics in Eighteenth-Century British Literature +	
ENL 4240	Topics in Romantic Literature +	
ENL 4251	Topics in Victorian Literature +	
ENL 4284	Topics in 20th-Century and Contemporary British Literature +	
ENL 4303	Single Author Seminar, British Literature, 1700 to the Present	

Choose one of the following: 3

AML 4014	Topics in Early American Literature +	
AML 4015	Topics in Nineteenth-Century American Literature +	
AML 4054	Topics in Twentieth-Century and Contemporary American Literature +	
AML 4302	Single Author Seminar, American Literature, 1700 to the Present	

Choose one of the following: 3

AML 3604	African American Literature +	
AML 3624	Black Women Writers +	
ENG 3843	Theories of Sexuality and Gender +	
LIT 3191	World Literature	
LIT 3233	Postcolonial Literature +	
LIT 4385	Feminist Theory +	
AML 4640	Topics in Native American Literature	

Choose three of the following: 9

CRW 3110	Fiction Writing +	
CRW 3310	Poetry Writing +	
CRW 3424	Playwriting +	
CRW 4211	Creative Non-Fiction +	

Specialization Electives * 6

Total Hours 43

* Courses in the field not previously completed consisting of 3000/4000 level courses with AML, CRW, ENC, ENG, ENL, LAE, LIN, or LIT prefixes +

+ Courses included in the major GPA

Major-Related

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater. 17

Total Hours 17

Minors

English

To earn a Minor in English, students must complete at least 15 sh of upper-division courses in a planned program which includes those specified below. English majors may not earn this minor.

ENG 3010	Critical Methods for Literary Study	3
ENG 4013	Introduction to Literary Theory	3
ENL 4333	Shakespeare	3
3000/4000 level English Literature (ENL) course		3
3000/4000 level American Literature (AML) course		3
Total Hours		15

Spanish

The Minor in Spanish is designed to build upon the student's skills in speaking, reading, and writing the language; to provide fuller understanding of the structure of the language; and to increase knowledge and appreciation of the history and culture represented by the language. This minor is available to all undergraduate students.

A grade of "C" or better is required in all courses. The minor requires a minimum of 15 sh at the 2000 level or above of Spanish (SPN and SPW) courses of which 12 sh must be at the 3000/4000 level, and 12 sh must be completed at UWF.

Requirements

Of the 15 sh that students must complete, at least 12 sh must be 3000/4000 level courses.

SPN 2200	Intermediate Reading and Translation	3
SPN 2210	Intermediate Composition & Conversation	3
SPN 3400	Advanced Stylistics	3
SPN 3410	Composition and Conversation	3
SPN 4500	Spanish Civilization	3
SPN 4520	Latin American Culture and Civilization	3
SPN 4905	Directed Study	1-3
Total Hours		19-21

Certificates

Public Technical and Workplace Writing

In the Public, Technical, and Workplace and Writing Certificate Program, students gain an intensive experience in communication for professional success. The certificate will provide and opportunity for students from across the University to gain fundamental knowledge regarding 21st century skills in the production of public, technical, and digital texts. Students will write and analyze a range of genres from workplace, public and technical environments. Students will also finish the program with a portfolio of work that they can deliver to prospective employers. Employers in a variety of settings look for students with strong writing skills applicable for the professional environment. This certificate will give our students the background in writing needed to be competitive in today's workplace.

Prerequisites:

ENC 1101	English Composition I	
ENC 1102	English Composition II	
Foundation courses:		9
ENC 2412	Writing in the Digital Age	
ENC 3213	Introduction to Professional and Technical Writing	
ENC 4940	Writing and Editing Internship	
Electives:		3
ENC 3455	Introduction to Writing for Science, Technology, Engineering and Math Majors	
LIN 3673	Practical Grammar for Pre-Professionals	
Total Hours		12

Environmental Science

This interdisciplinary program offers a B.S. degree in Environmental Science. Students learn to analyze physical and socioeconomic environments and to reach decisions concerning environmental use and protection. The major allows students to obtain an interdisciplinary background suitable for environmental monitoring and planning. Graduates are prepared for entry- and middle-level positions in governmental agencies in such areas as regional planning and resource management; for positions in industry and the private sector; or to pursue graduate degrees in urban/regional planning, resource management, coastal studies, Geographic Information Systems (GIS), and the geosciences.

Two specializations are available under this B.S. program: Environmental Management and Natural Science. According to the departmental Academic Learning Compact, assessment of Student Learning Outcomes includes:

1. A written exit exam during a student's last semester of residency.
2. A portfolio of the two best student projects.
3. Good performance in GEO 4332 Senior Seminar.

Contact the department for information concerning the Certificate in Geographic Information Science (GIS).

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Environmental Science must meet the requirements listed below.

Students must consult with their academic advisors for courses that may satisfy both the General Studies requirements and common prerequisites.

Environmental Core

CONTENT		
GEO 3250+L	Weather and Climate (+Lab) ⁺	4
GEO 3260+L	Geography of Soils (+Lab) ⁺	4
GEO 4280+L	Basic Hydrology (+Lab) ⁺	4
GEO 4376+L	Landscape Ecology (+Lab) ⁺	4
TECHNIQUES AND SKILLS		
EVR 3894	Environmental Writing ⁺	3
GEO 4164	Geostatistics ⁺	3
GIS 3015+L	Cartographic Skills (+Lab) ⁺	4
GIS 4043+L	Geographic Information Systems (+Lab) ⁺	4
CAPSTONE		
GEO 4332	Senior Seminar ⁺	1
Choose one:		3
EVR 4941	Practicum in Environmental Studies ⁺	
EVR 4970	Senior Thesis in Environmental Science ⁺	
GIS 4944	GIS Internship ⁺	
Total Hours		34

⁺ Courses included in the major GPA

Environmental Management Specialization

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 160)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 160)

Choose one course from Group A and one Additional course from either Group A or Group B

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 160)

Choose one course from Group A and one additional course from either Group A or Group B

Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 160)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 160)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 160)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Environmental Management specialization Environmental Science majors should take the following to satisfy perspectives of General Education:

Social Science/Behavioral Perspectives (one of the following):	3
ANT 2000	Introduction to Anthropology
PSY 2012	General Psychology
Social Science/Socio-political Perspectives (one of the following):	3
GEA 2000	Nations and Regions of the World
ECO 2013	Principles of Economics Macro
INR 2002	International Politics
POS 2041	American Politics

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See

the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1005+L	General Biology for Non-Majors (+Lab)	3
BOT 2010+L	General Botany (+Lab) *	4
CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 1140	Precalculus Algebra *	3
STA 2023	Elements of Statistics *	3
Choose one of the following:		4
GEO 1200+L	Physical Geography (+Lab) *	
GLY 2010+L	Physical Geology (+Lab) *	
Total Hours		25

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.	0-10
Total Hours	0-10

Environmental Core - 34 sh

See Program Requirements

Major*

Environmental Studies Core		34
GEO 3372	Conservation of Natural Resources +	3
GIS 4035+L	Photo Interpretation and Remote Sensing (+Lab) +	4
Choose one:		3
ECO 3003	Principles of Economic Theory and Public Policy	
ECP 4302	Environmental Economics and Policy	
Choose one:		3-4
GEO 4221+L	Coastal Morphology and Processes (+Lab) +	
GEO 4251	Advanced Climatology and Climate Change +	
PCB 4043+L	Ecology (+Lab)	
Choose one:		3
GIS 4036	Applications in Remote Sensing +	
GIS 4048	Applications in Geographic Information Systems +	
GIS 4071	Methods and Techniques in Environmental Resource Management and Planning +	
Choose one:		3
EVR 4412	Environmental Aspects of Urban Growth +	
EVR 4870	Urban Planning +	
GEO 4801	Global Agricultural Sustainability +	
Choose one:		3
EVR 4035	Environmental Law +	
EVR 4823	Environmental Impact Assessment +	
Any upper-level course with prefix of EVR, EVS, GEA, GEO, GIS, or GLY +		3
Total Hours		59-60

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	0-1
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It is highly recommended that students choose from the following to complete their upper division electives:

ECP 4302	Environmental Economics and Policy	3
PAD 3003	Public Administration in American Society	3
PUP 4004	Public Policy	3

* No more than 24% of the program requirements for this degree may be in traditional business subjects.

Natural Science Specialization

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 160)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 160)

Choose one course from Group A and one Additional course from either Group A or Group B	6	
Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 160)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 160)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 160)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 160)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Natural Science specialization Environmental Science majors should take the following to satisfy perspectives of General Education:

Social Science/Behavioral Perspectives (one of the following):	3
ANT 2000	Introduction to Anthropology
PSY 2012	General Psychology
Social Science/Socio-political Perspectives (one of the following):	3
GEA 2000	Nations and Regions of the World
ECO 2013	Principles of Economics Macro
INR 2002	International Politics
POS 2041	American Politics

Common Prerequisites

BOT 2010+L	General Botany (+Lab) *	4
CHM 2045+L	General Chemistry I (+Lab) *	4

CHM 2046+L	General Chemistry II (+Lab) *	4
GLY 2010+L	Physical Geology (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
PHY 2048+L	University Physics I (+Lab) *	4
STA 2023	Elements of Statistics *	3
Total Hours		27

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Total Hours 0-10

Environmental Core

See Program Requirements

Major (57-60 sh)

Environmental Science Core		34
CHM 3120+L	Analytical Chemistry (+Lab)	4
GEO 4251	Advanced Climatology and Climate Change +	3
PCB 4043+L	Ecology (+Lab)	4
Choose one:		3-4
EVS 4192C	Environmental Soil Science +	
GLY 3031C	Environmental Geology +	
Choose one:		3-4
EVR 4023	Coastal and Marine Environments +	
GEO 4221+L	Coastal Morphology and Processes (+Lab) +	
Choose one:		3
CHM 4930	Seminar: Special Topics in Advanced Chemistry (Environmental Chemistry)	
GLY 4240	Geochemistry +	
GLY 4244	Biogeochemistry +	
Choose one:		3-4
GIS 4035+L	Photo Interpretation and Remote Sensing (+Lab) +	
GIS 4036	Applications in Remote Sensing +	
GIS 4048	Applications in Geographic Information Systems +	
GIS 4071	Methods and Techniques in Environmental Resource Management and Planning +	
Total Hours		57-60

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours 0-3

Minors

Environmental Science

The minor in Environmental Science is offered as a micro-version of the B.S. in Environmental Science degree. The required courses represent a cross section of the departmental offerings.

An Environmental Science Minor consists of 19-20 sh; of the 12-13 upper-level hours, at least 9 of which must be taken at UWF. Directed

studies may not be used. Environmental Science majors may not earn this minor.

EVR 2001	Introduction to Environmental Science	3
GEO 3372	Conservation of Natural Resources	3
Choose one:		4
GEO 1200+L	Physical Geography (+Lab)	
GLY 2010+L	Physical Geology (+Lab)	
Choose one:		3-4
GEO 3260+L	Geography of Soils (+Lab)	
GEO 4280+L	Basic Hydrology (+Lab)	
GEO 4376+L	Landscape Ecology (+Lab)	
GLY 3031C	Environmental Geology	
Choose one:		3
EVR 4035	Environmental Law	
EVR 4823	Environmental Impact Assessment	
EVR 4870	Urban Planning	
Any 3000/4000-level EVR, EVS, GEO, GIS, or GLY course		3
Total Hours		19-20

Geography

A Minor in Geography consists of 20 sh of courses. Of the upper-division (13 sh), a minimum of 9 sh must be taken at UWF. Directed studies may not be used.

GEA 2000	Nations and Regions of the World	3
GEO 1200+L	Physical Geography (+Lab)	4
GEO 3421	Cultural Geography	3
GIS 4043+L	Geographic Information Systems (+Lab)	4
One 3000/4000 level GEA, GEO, or GIS elective		3
Choose one:		3
GEA 4405	Geography of Latin America	
GEA 4635	Geography of the Middle East	
GEA 4730	Geography of Japan	
Total Hours		20

Certificates

Geographic Information Science Certificate

Department: Environmental Science

Veterans Affairs (VA) Certified? Yes

Semester Hours: 24

This certificate program is designed to teach students, from novice to working professionals, both the highly in-demand technical skill of using industry-standard geospatial software as well as a strong conceptual foundation in Geographic Information Science necessary for advanced analyst and manager roles. Geographic Information Systems is a computerized system that allows users to work with, interrelate, and analyze virtually all forms of spatial data for decision making. The program represents the latest technologies that are revolutionizing many disciplines, including geography, environmental sciences, archaeology, business, defense and intelligence, and public health/safety in the information age. Required courses and GIS internship have been carefully combined to reflect the real-world requirements needed for careers in the geospatial sciences. Students may choose between face-to-face (Pensacola campus) and online courses by applying to one of the two program offerings available: GIS Certificate (http://uwf.edu/gis/undergrad_cert) and Online GIS Certificate (<http://uwf.edu/gisonline/CourseOptions/GISCertificate.cfm>) programs.

Two specializations are available under the Online GIS Certificate program: Traditional GIS and Archaeology for GIS. Six semester hours are devoted to each specialization. See the Course Catalog (<http://catalog.uwf.edu/courseinformation/courses/gis>) for course descriptions.

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

Admission Requirements

Those interested in obtaining a GIS Certificate must apply and be approved by the GIS Certificate Committee prior to enrollment. Admission requirements vary slightly between our two program offerings: GIS Certificate program (Pensacola campus) and Online GIS Certificate program (online campus). Admission requirements by program are provided below.

Students may transfer one class (3 or 4 credits) into the program providing the transfer criteria are met. The class must not have counted towards a degree or a certificate at another institution and must be an upper level undergraduate class from a regionally accredited U.S. university.

GIS Certificate Program:

- Submission of Application for Admittance.
- Admission to UWF as a degree or non-degree seeking student.
- UWF undergraduate majors must obtain a C- or better in the following courses.

MAC 1105 College Algebra
(p. 160)

STA 2023 Elements of Statistics
(p. 160)

CGS 2570 Personal Computer Applications
(p. 160)

Students who have equivalent background but did not take the above courses formally may be admitted into the program upon demonstrating equivalent proficiency. Students must also receive formal approval from the proposed GIS Certificate Program committee.

Online GIS Certificate Program:

- Submission of Online GIS Certificate Application.
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the certificate program, including how the certificate relates to career goals.
- Successful completion of the Computer Skills Assessment.
- Admission to UWF as a degree or non-degree seeking student.

Course Requirements

Students accepted into the certificate program of their choice should schedule to meet with a program advisor to receive a detailed course plan.

Students accepted into the Online GIS Certificate program should select, by the end of the first semester, the traditional GIS or archaeology for GIS specialization. Online GIS courses are offered once a year unless otherwise stated.

Required Courses:

GIS 3015+L	Cartographic Skills (+Lab)	4
GIS 4035+L	Photo Interpretation and Remote Sensing (+Lab)	4
GIS 4043+L	Geographic Information Systems (+Lab)	4
GIS 4102	GIS Programming	3

Choose from the following (3hr): 3

GIS 4048	Applications in Geographic Information Systems
GIS 4260	GIS Applications for Archaeology (Offered only with Online GIS Certificate Program)

Choose from the following (3hr) 3

GIS 4930	Special Topics in Geographic Information Science
GIS 5938	Special Topics in GIS for Archaeology

Choose from the following (3 sh): 3

GIS 4905	Directed Study (1-3sh)
GIS 4944	GIS Internship (1-3 sh)

Total Hours 24

Geospatial Computing Certificate

Department: Environmental Science

Semester Hours: 22

The Certificate in Geospatial Computing combines foundation computer programming, database and web programming concepts with the specialized study of geographic information systems. This program is designed to address the need for customized GIS desktop and web-based applications related to business, geospatial intelligence, education, healthcare, and numerous other employment fields.

As part of the coursework, students will be provided with the opportunity to become technically proficient in a variety of geospatial technologies and applications through hands-on instruction. The program focuses on Geographic Information Science, data mining, programming, database concepts, computational modeling, automation, and implementation of customized GIS applications. The proposed courses have been carefully combined to reflect the real-world requirements needed for careers in the geospatial sciences. With 100 percent of the coursework offered online, this program is designed to meet the needs of recent graduates looking to enter the workforce and those working professionals who did not acquire a computational GIS background as part of their primary academic training while they continue to hold their position in their chosen field.

Program Requirements

In addition to meeting general UWF requirements, participants must successfully complete the prescribe courses earning a grade of "C" or better in each course, and secure a combined grade point average of 2.5 or higher for the courses required by the certificate.

GIS 4048	Applications in Geographic Information Systems	3
GIS 4043+L	Geographic Information Systems (+Lab)	4
GIS 4930	Special Topics in Geographic Information Science	3
COP 4710	Database Systems	3
Select one of the four programming courses: 3		
COP 2253	Programming Using Java	
CGS 3464	Programming Using Visual Basic for Non-Majors	
COP 2334	Programming Using C++	
COP 3990C	Programming in Python	
Select one of the following three courses: 3		
COP 3813	Internet Programming	
CAP 4770	Data Mining	
CNT 4007C	Theory and Fundamentals of Networks	
Select one of the following three courses: 3		
GIS 4XXX	Advanced GIS Programming	
GIS 4944	GIS Internship	
GIS 4102	GIS Programming	

Total Hours 22

Exceptional Student Education

The B.A. degree program in Exceptional Student Education is designed to prepare students who plan to teach children and youth with exceptionalities. Many aspects of the program provide the student with opportunities to work with exceptional children. The Exceptional Student and Elementary Certification Specialization is a Florida Department of Education (FDOE) approved specialization that leads directly to FDOE certification in Exceptional Student Education (K-12) and Elementary Education (K-6) with ESOL and Reading Endorsements. Graduates of the Exceptional Student and Elementary Education Certification Specialization will be certified as "highly qualified" based upon the No Child Left Behind Act. Students must successfully complete the Florida Teacher Certification Exam in Exceptional Student Education, Elementary Education, General Knowledge, and Professional Education.

All students in this major are initially assigned to an Exceptional Student Education/Elementary Education pending major until they complete the requirements listed in Admission to Teacher Education.

Students interested in teaching at the middle or secondary level (other than exceptional student education) will complete their baccalaureate degrees in the discipline and are encouraged to review the Teacher Education Programs section of this catalog (<http://catalog.uwf.edu/undergraduate/teachereducation>) for additional information. Prospective middle and secondary education teachers will complete Florida certification requirements through alternative certification.

Responsibility for the teacher education programs at The University rests with the Dean of the College of Education and Professional Studies, who is the head of the Professional Education Unit.

Requirements for teacher education programs may change due to legislative mandates. Therefore, the actual program requirements may differ from those listed in the catalog. Candidates must inquire with the Chair or an advisor in the Department of Teacher Education and Education Leadership (TEEL) to obtain the most current program requirements. Students seeking initial certification must be degree-seeking.

Fingerprinting is required for any placement in a school (including the field experience associated with EDF 1005). The Student Affidavit and Fingerprinting Application are required before any student can be placed in a school for Field Experiences or Student Teaching. Forms are available from the local school districts.

Admission to Teacher Education

Students entering UWF or declaring a major in Teacher Education will automatically be placed in a pending status until they meet the requirements for admission to teacher education. This pending status allows the unit to carefully monitor student progress through teacher education programs. Careful monitoring will ensure that knowledge, skills and/or dispositional deficits of pre-service teachers can be identified in a timely manner so that students can be provided additional support through the Culture of Achievement through a System of Tiered support (CAST) process.

Students must successfully complete the following requirements:

- Have a cumulative GPA of 2.50 in all previously attempted college work;
- Pass the General Knowledge Test of the Florida Teacher Certification Exam;

- Complete an Application for Admission to Teacher Education which includes a self-rating scale of their disposition towards teaching;
- Complete the orientation requirement; and
- Review of the items above by one of the faculty members in the Department of Teacher Education and Education Leadership and approval by the Chair.

Those who do not complete these requirements in that period may be denied further registration, and an enrollment hold may be placed preventing any future enrollment in education courses.

Prospective teachers 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. Teacher candidates who are struggling to meet content and/or disposition standards and/or competencies may be referred to the CAST process. Any student who is referred to the CAST process and does not successfully complete the support/intervention process may be denied continued enrollment in any professional education program.

All approvals for admission to teacher candidacy are provisional and 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 Professional Studies.

[Back To Top](#)

Readmission to Teacher Education

Readmission into a teacher education program requires the student to meet standards for the Council for the Accreditation of Educator Preparation (CAEP), the Florida Department of Education (FDOE) and the University. Readmitted students will be required to complete the degree plan in effect at the time of readmission and to meet the requirements for admission to teacher education in effect at the time of readmission.

Course work completed prior to readmission will be reviewed for compliance with current CAEP, FDOE, and University requirements. Students will be required to retake courses not in compliance with these requirements.

[Back To Top](#)

Admission to Student Teaching

The student teaching program, administered through the Department of Teacher Education and Education Leadership, consists of one semester of student teaching or two semesters of internship supervised by a highly qualified teacher who has completed Clinical Educator Training. The student teaching/internship experience is scheduled during the student's senior year.

Requirements for admission to student teaching/internship include the following:

- Full admission to teacher education;
- A minimum GPA of 2.5 in teacher education (major) courses. A grade below "C-" cannot be used to satisfy a program requirement;
- Completion of specialization courses required in the major, if applicable, (see the section of this catalog related to the appropriate specialization for specific course requirements);
- Pass the general knowledge, professional, and subject area tests of the Florida Teacher Certification Examination;

- Successful completion of the State of Florida Educator Accomplished Practices; and
- Recommendation of the student's academic advisor and approval of the Chair of the Department of Teacher Education and Education Leadership

During the time a student is engaged in student teaching, any outside employment or additional academic work except senior seminar must be approved by the Chair of the Department of Teacher Education and Education Leadership

Back To Top

Title II Reports

In compliance with the Higher Education Act, annual reports about teacher preparation in the state are available online (<https://title2.ed.gov/view.asp>). Select the appropriate year from the left column of the webpage and then click on Florida.

Program Requirements

Candidates for admission to the CAEP/DOE approved teacher education specialization must meet and complete admission requirements detailed above. In addition to general University requirements, students seeking the B.A. in Exceptional Student Education/Elementary Education must meet the following requirements.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 166)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 166)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 166)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 166)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 166)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 166)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
Total Hours		9

In addition to EDF 2085 Teaching Diverse Populations, a minimum of 6sh with an international or diversity focus is required. Eligible courses will be determined by the Florida public college or university where

the student is currently earning the A.A. or B.S. foreign language courses may be used to meet this requirement. Any course identified as meeting UWF's Multicultural Requirement will fulfill this 6 sh requirement.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 15

Total Hours	15
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Exceptional Student Education Certification Specialization

The Exceptional Student Certification Specialization is a Florida DOE approved specialization that leads directly to certification in Exceptional Student Education (K-12) and Elementary Education (K-6) with ESOL and Reading Endorsements and is part of the CAEP accredited Professional Education Unit. Graduates of the Exceptional Student Certification Specialization will be certified as "highly qualified" based upon the No Child Left Behind Act. Students must successfully complete the Florida Teacher Certification Exam in Exceptional Student Education, Elementary Education, General Knowledge, and Professional Education.

Major

EDF 3234	Applied Foundations of Education +	3
EDG 4373	Elementary and Special Education Integrated Arts +	3
EEX 3070	Methods in Inclusion and Collaboration +	3
EEX 4141	Survey of Normal and Abnormal Language and Speech Development +	3
EEX 4221C	Evaluation and Prescriptive Instruction for the Exceptional Child +	3
EEX 4254	Instructional Strategies for Teaching Students with Exceptionalities +	3
EEX 4255	Curriculum for Teaching Students with Exceptionalities +	3
EEX 4261	Educational Management of Exceptional Children +	3
EEX 4474	Curricula for Teaching Students with Severe Disabilities +	3
EEX 4772	Personal, Social and Employment Skills for Exceptional Students +	3
EEX 4832	Field Experience I +	3
EEX 4833	Field Experience 2 +	3
LAE 3314	Literacy for the Emergent Learner +	3
MAE 4310	Teaching Mathematics in the Elementary School +	3
RED 3310	Literacy Instruction for the Intermediate Learner +	3
RED 4542C	Assessment and Differentiated Instruction in Reading +	3
SCE 4310	Teaching Science in the Elementary School +	3
SSE 4113	Social Studies for Elementary Teachers +	3
TSL 4080	ESOL Principles and Practices +	3
TSL 4081	Empowering Teachers to Teach English to ESOL Students +	3
Student Teaching (choose one of the following options):		12
Option 1		
EDG 4936	Senior Seminar +	
EDG 4940	Student Teaching +	
Option 2		
EDG 4936	Senior Seminar +	

EDG 4941	Teaching Internship I ⁺	
EDG 4942	Teaching Internship II ⁺	
Total Hours		72

⁺ Courses included in the major GPA

Minors

Exceptional Student Education

The Minor in Exceptional Student Education consists of 15 sh of special education courses. This minor is not available to Special Education majors.

EEX 3070	Methods in Inclusion and Collaboration	3
EEX 4141	Survey of Normal and Abnormal Language and Speech Development	3
EEX 4261	Educational Management of Exceptional Children	3
EEX 4772	Personal, Social and Employment Skills for Exceptional Students	3
Choose One		3
EEX 4221C	Evaluation and Prescriptive Instruction for the Exceptional Child	
3000/4000 level related course approved by advisor		
Total Hours		15

Finance

The B.S.B.A. in Finance is an included program in the University's accreditation by AACSB International.

The B.S.B.A. in Finance prepares students for professional careers in areas such as corporate financial management, financial institutions management, investments, and financial planning. The program also provides the foundation to pursue the designations of Chartered Financial Analyst (CFA) or Certified Financial Planner (CFP).

Program Requirements

In addition to the university's general requirements, students seeking the B.S.B.A. in Finance must meet the requirements listed below.

Students should consult with their academic advisors for courses which may satisfy both the General Education requirements and common prerequisites.

A minimum course grade of "C" is required in all College of Business prerequisites and courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 170)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 170)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 170)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 170)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 170)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 170)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Finance majors should take the following courses to satisfy components of the General Education curriculum courses:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social Sciences		3
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		3-12
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Major

College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Finance Specialization

FIN 3244	Financial Markets and Institutions ⁺	3
FIN 3461	Financial Statement Analysis ⁺	3
or ACG 3180 ⁺		
or ACG 3101 ⁺		
FIN 4414	Financial Theory and Practice ⁺	3
FIN 4424	Problems in Corporate Finance ⁺	3
FIN 4504	Investments ⁺	3
FIN 4514	Security Analysis and Portfolio Management ⁺	3
3000/4000 level advisor-approved ACG/ECO/FIN/TAX elective ⁺		3
3000/4000 level advisor-approved elective ⁺		3
FIN 3140	only for degree plans 2011 or earlier ⁺	
Total Hours		24

⁺ Courses included in the major GPA

Upper Division Electives

3000/4000 advisor-approved level electives	6
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Minors

Finance

A minor in Finance requires completion of 18-24 hours including at least 12 hours of upper division courses at UWF. Finance majors may not earn this minor. Students should complete MAC 1105 College Algebra, STA 2023 Elements of Statistics, and any computer literacy courses before enrolling in required courses. A minimum grade of "C" is required in all College of Business prerequisites and courses.

ACG 3082	Accounting for Non-Majors	3
ECO 3003	Principles of Economic Theory and Public Policy	3
FIN 3244	Financial Markets and Institutions	3
FIN 3403	Managerial Finance	3
3000/4000 level Finance (FIN) courses		6
Total Hours		18

Certificates

Financial Institutions Certificate Level 1

This certificate is only available through agreement with partner companies.

Department: [Finance](#)

Semester Hours: 9

This certificate will be awarded upon completion of 9 semester hours of prescribed undergraduate courses in finance, economics and accounting.

Program Requirements

In addition to meeting general University requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course.

ECO 3003	Principles of Economic Theory and Public Policy	3
ECO 3223	Money and Banking	3
ACG 3082	Accounting for Non-Majors	3
Total Hours		9

Financial Institutions Certificate Level 2

This certificate is only available through agreement with partner companies.

Department: [Finance](#)

Semester Hours: 9

This certificate will be awarded upon completion of 9 semester hours of prescribed undergraduate courses in finance, economics and accounting.

Program Requirements

In addition to meeting general University requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course.

FIN 3403	Managerial Finance	3
FIN 3244	Financial Markets and Institutions	3
FIN 4324	Commercial Bank Management	3
Total Hours		9

General Education

The General Education curriculum at UWF is designed to provide a coherent program of study that promotes the development of a broadly educated person with the basic knowledge and skills needed to succeed in their university studies and beyond.

The General Education student learning outcomes are clustered in four areas: Critical Thinking, Communication, Values/Integrity, and Project Management. The General Education student learning outcomes align with more sophisticated learning outcomes at a higher level in each major. Thus, the overarching goal of General Studies is to establish the initial stages of student learning that will be reinforced and developed in degree programs.

The General Education curriculum is divided into five areas: Communication, Mathematics, Social Sciences, Humanities and Natural Sciences. The courses that fulfill requirements in those areas are listed below by discipline area.

Communications

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3
Total Hours		6

Mathematics

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	

IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 2010	Biology I
BSC 1085	Anatomy and Physiology I
CHM 1020	Concepts in Chemistry
CHM 2045	General Chemistry I
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics
PHY 2048	University Physics I
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry
CHM 2046	General Chemistry II
GEO 1200	Physical Geography
GLY 2010	Physical Geology
MCB 1000	Fundamentals of Microbiology
PHY 2049	University Physics II
PHY 2054	General Physics II

General Studies Electives

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

6

Fine Arts

The B.F.A. is a professional art degree program that provides a more intensive course of study than the traditional B.A. in Art, with a specialization in Studio Art. The degree prepares students for entry into the professional art world and/or graduate school. In the B.F.A. program, students can concentrate in a number of studio areas, including Drawing, Painting, Sculpture, Printmaking, Photography, and Ceramics, as well as New and Mixed Media. There are separate specialization programs for B.F.A. students studying Digital Art and Graphic Design.

Program Requirements

After acceptance into the program, all students must complete the minimum of 18 semester hours of studio and/or art history courses. Students must participate in two group critiques and two individual critiques each semester of their junior and senior years, observing on the first group review only. The group reviews are scheduled by the faculty in or around the 6th and 11th weeks of the semester; individual reviews are arranged by students with their faculty committees. Students must participate in a B.F.A. Exit Exhibition in their final semester.

A grade of "C" or better must be earned in all courses that are identified as common prerequisites, major, or major-related. Transfer students may satisfy deficiencies in art requirements through course work at UWF. However, none of the art courses in the General Education curriculum may be used to satisfy junior/senior requirements. All course choices must have art faculty approval.

In addition to the University's general requirements, students seeking the B.F.A. must meet the requirements listed below.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 175)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 175)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	

Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 175)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 175)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
ARH 1000	Art Appreciation	
LIT 2000	Introduction to Literature	
MUL 2010	Music Appreciation	
PHI 2010	Introduction to Philosophy	
THE 2000	The Theatre Experience	
Group B		
AML 2072	Sex, Money, and Power in American Literature	
ARH 2050	Western Survey I: Greek to Renaissance	
ARH 2051	Western Survey II: Baroque to Contemporary	
ART 1015C	Exploring Artistic Vision	
ART 2821	Art and Visual Culture Today	
IDH 1040	Honors Core 1	
MUH 2930	The Music Experience: Special Topics	
PHI 2103	Critical Thinking	
PHI 2603	Ethics in Contemporary Society	
REL 1300	World Religions	
THE 2300	Survey of Dramatic Literature	
SPC 2608	Basic Communication Skills	

Natural Sciences (p. 175)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 175)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

ARH 2050	Western Survey I: Greek to Renaissance *	3
ARH 2051	Western Survey II: Baroque to Contemporary *	3
ART 1300C	Drawing I - Fundamentals	3
ART 1301C	Drawing II - Fundamentals	3
ART 2201C	Two-Dimensional Design	3
ART 2203C	Three-Dimensional Design	3

ARTXXXX		6
Total Hours		24

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Recommended for ARTXXXX:

ART 2500C	Painting I - Fundamentals	3
ART 2701C	Fundamentals of Sculpture	3

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 0-6

Total Hours		0-6
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The following courses are recommended:

ART 2500C	Painting I - Fundamentals	3
ART 2701C	Fundamentals of Sculpture	3
ART 2602C	Introduction to Digital Studio Practice	3

Art Specialization

Major

ARH 3590	Perspectives in Ancient and World Art +	3
ART 3213C	Advanced Ideas and Concepts +	3
ART 3312C	Drawing III: The Figure +	3
ART 4800	Portfolio +	3

Three 3000/4000 level art history (ARH) courses + 9

Four 3000/4000 level studio art (ART/PGY) courses + 12

Four 3000/4000 level studio art (ART/PGY) concentration courses + 12

Personal Directions Course in Area of Concentration + 3

Choose one of the following: 3

ARH 4450	Modern Art 1900-1950 +	
ARH 4470	Art After 1950 +	

If not completed at the lower division: 0-9

ART 2500C	Painting I - Fundamentals	
ART 2602C	Introduction to Digital Studio Practice	
ART 2701C	Fundamentals of Sculpture	

Total Hours		51-60
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Major-Related

Choose one of the following: 3

ANT 4651	Aesthetics & Critical Theory +	
PHI 3800	Philosophy of Art +	
ARH 4930	History of Art History Seminar +	

Total Hours		3
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* Number of hours range depends on the completion of recommended courses at the lower level.

+ Courses included in the major GPA

Upper Division Electives

The remainder of the program will be comprised of electives that students can select without limitation. However, students will be advised to select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level if necessary. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses. 2

Total Hours		2
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Digital Art Specialization

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. Courses in brackets indicate substitutes from Florida public community/junior colleges and universities.

ARH 2051	Western Survey II: Baroque to Contemporary	3
ART 1300C	Drawing I - Fundamentals	3
ART 2201C	Two-Dimensional Design	3
ART 2203C	Three-Dimensional Design	3
ART 2602C	Introduction to Digital Studio Practice	3
GRA 2111C	Principles of Graphic Design	3
GRA 2208C	Typography	3

*ARH2051 is a common prerequisite which can also be used to satisfy General Studies requirements.

Total Hours 21

Lower Division Electives (0-6 hours)

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement. Recommend students take GRA2208C, GRA2111C, ART2602C.

Major Courses

ART 1301C	Drawing II - Fundamentals	3
ART 3213C	Advanced Ideas and Concepts ⁺	3
ART 3613C	Digital Multimedia ⁺	3
ART 4800	Portfolio ⁺	3

Choose Two of the Following: 6

ART 2400C	General Printmaking	
PGY 2401C	Photography as Art Form: Basic Camera	
ART 2500C	Painting I - Fundamentals	
ART 2701C	Fundamentals of Sculpture	

Concentration in Digital Media and Graphic Design (Choose 9 courses from list below for 27 semester hours): 27

ART 3618C	Introduction to Web-based Art ⁺	
ART 3630C	Artist's Video ⁺	
GRA 3102C	Graphic Design Studio I ⁺	
GRA 3112C	Graphic Design Studio II ⁺	
ART 4632C	Digital Design Studio Senior Project ⁺	
GRA 4940L	Internship in Graphic Design ⁺	
GRA 4950C	Graphic Design Portfolio ⁺	
ART 4619C	Advanced Digital Multimedia ⁺	
ART 4633C	Interactive Design ⁺	
GRA 4930C	Special Topics in Digital Media Design ⁺	

3000/4000 studio art (ART/PGY) electives. ⁺ 6

3000/4000 art history (ARH) electives and/or (FIL4036) ⁺ 6

Total Hours 57

⁺ Courses included in the major GPA

Major-Related Courses (6 hours)

Students will choose 2 courses from a supporting curriculum specific to student career goals, such as Computer Science or Communication Arts. Must be approved by BFA Faculty Advisor. 6

Total Hours 6

Upper Division Electives

The remainder of the program will be comprised of electives that students can select without limitation. However, students will be advised to select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level if necessary. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses. 0-9

Total Hours 0-9

Graphic Design Specialization

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. Courses in brackets indicate substitutes from Florida public community/junior colleges and universities.

ARH 2051	Western Survey II: Baroque to Contemporary	3
ART 1300C	Drawing I - Fundamentals	3
ART 2201C	Two-Dimensional Design	3
ART 2203C	Three-Dimensional Design	3
ART 2602C	Introduction to Digital Studio Practice	3
GRA 2111C	Principles of Graphic Design	3
GRA 2208C	Typography	3

*ARH2051 is a common prerequisite which can also be used to satisfy General Studies requirements.

Total Hours 21

Lower Division Electives (3 hours)

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement. Recommend students take ART 2602C, GRA 2111C, and/or GRA 2208C. 3

Total Hours 3

Major Courses

ART 1301C	Drawing II - Fundamentals	3
PGY 2401C	Photography as Art Form: Basic Camera	3
ARH 3724	History of Graphic Design ⁺	3
ART 3312C	Drawing III: The Figure ⁺	3
ART 3213C	Advanced Ideas and Concepts ⁺	3
ART 3618C	Introduction to Web-based Art ⁺	3
GRA 3102C	Graphic Design Studio I ⁺	3
GRA 3112C	Graphic Design Studio II ⁺	3
ART 3613C	Digital Multimedia ⁺	3
ART 4632C	Digital Design Studio Senior Project ⁺	6
ART 4633C	Interactive Design ⁺	3
GRA 4950C	Graphic Design Portfolio ⁺	3

3000/4000 level Studio Art (ART) electives ⁺ 6

3000/4000 level Art History (ARH) electives ⁺ 3

Choose Two of the Following: 6

ART 3630C	Artist's Video ⁺	
ART 4619C	Advanced Digital Multimedia ⁺	
GRA 4930C	Special Topics in Digital Media Design ⁺	
GRA 4940L	Internship in Graphic Design ⁺	

Total Hours 54

Major-Related

Introduction to Advertising (ADV 3000) and/or one 2000 level foundational programming course from the Department of Computer Science. Students will choose one additional course from Computer Science or Communication Arts based on advisor conference and approval. Several recommendations are listed below. ⁺

Advertising:	
ADV 3101	Creative Strategy & Tactics I ⁺
ADV 3213	Advertising Graphics II ⁺
ADV 4202	Creative Strategy and Tactics II ⁺
Journalism:	
JOU 4213	Newspaper Design ⁺
JOU 4445	Magazine Publishing ⁺
Computer Science:	
COP 2830	Script Programming
COP 3813	Internet Programming ⁺
CGS 3853	Web Page Design ⁺

Total Hours 6

⁺ Courses included in the major GPA

Upper -Division Elective

The remainder of the program will be comprised of electives that students can select without limitation. However, students will be advised to select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level if necessary. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses at UWF.

Health, Leisure and Exercise Science

HLES - Exercise Science, Physical Education & Physical Education Teacher Ed

Building	Phone	Website	Email
Building 72, Room 241	(850)474-2592	http://uwf.edu/hles	hles@uwf.edu

Legal Studies, Public Administration and Sport Management (CEPS) - Sport Management

Building	Phone	Website	Email
Building 85, Room 114	(850)474-2769	http://uwf.edu/lps	lps@uwf.edu

The B.S. in Health, Leisure, and Exercise Science prepares students for positions in teaching, the health and fitness industry, leisure services and for graduate study.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. degree in Health, Leisure, and Exercise Science must meet the requirements for each specialization listed below.

Students interested in the **Athletic Training** program should check the Athletic Training section of this catalog (<http://catalog.uwf.edu/undergraduate/athletic-training>).

Students in the **Exercise Science** specialization must complete 42 sh of major core courses and have 18 sh of electives related to the field. The major core courses include an internship in the field.

Students in the **Fitness and Conditioning** specialization will complete an internship during their senior year. Requirements for admission to the internship are as follows:

- Grade of "C" or higher in all courses used to fulfill major requirements
- At least a 2.50 cumulative GPA in the major
- Recommendations of academic advisor and chairperson of the Exercise Science and Community Health Department

Students in the **Physical Education Teacher Education** specialization will complete a student teaching experience during their senior year. Requirements for admission to the student teaching program are as follows:

- Grade of "C" or higher in all major related courses
- 2.50 or greater cumulative GPA
- Passing scores on the Professional Education Test, General Knowledge Exam, and the Physical Education Subject Area test of the Florida Teacher Certification Exam
- Completion of 100 service hours approved by the Physical Education Teacher Education Program committee
- Approval by the Physical Education Teacher Education Program Committee

Students in the **Sport Management** specialization need to take SPM 3004 Introduction to Contemporary Sport Management among courses in the first semester in the major. Students will take a capstone experience in the field of sport management no less than 6 sh. Requirements for permission to the capstone experience are as follows:

- Grade of "C-" or higher in all courses used to fulfill major requirements;
- At least a 2.50 cumulative GPA in the major;

- No more than 9 sh remaining to completion of all major courses and major related courses excluding the 6 sh internship
- Completion of SPM 4003 - Sport Management Careers Seminar; and
- Recommendations of academic advisors and chairperson of the Applied Science, Technology & Administration (COPS) Department.

No more than 24% of the program requirements for the degree may be taken in traditional business subjects.

Exercise Science Specialization

The Exercise Science Specialization is designed for students interested in pursuing a career in the fitness industry, cardiac rehabilitation, and other clinical fields, and graduate school. The program has specific courses (PET 4380 Exercise Testing and Prescription, APK 4114C Physiological Basis of Strength Development) that prepare students for certifications such as the ACSM Health and Fitness Specialists and the NSCA Certified Strength and Conditioning Specialists. The course work precedes an internship that allows students to receive valuable work experience just prior to graduating. The American College of Sports Medicine (ACSM) has endorsed the curricula for the University of West Florida's undergraduate Exercise Science specialization. The curriculum covers the knowledge, skills, and abilities expected of an ACSM Health/Fitness Instructor.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 179)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 179)

Choose one course from Group A and one Additional course from either Group A or Group B		6
Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 179)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Exercise Science majors should take the following to satisfy components of General Education:

Social Science/Behavioral Perspectives:	3
PSY 2012	General Psychology
or DEP 2004	Human Development Across the Lifespan
Mathematics:	6
STA 2023	Elements of Statistics
MAC 1105	College Algebra
Humanities/Values and Expressions:	3
SPC 2608	Basic Communication Skills
Natural Sciences:	8
BSC 1085+L	Anatomy and Physiology I (+Lab)
BSC 1086+L	Anatomy and Physiology II (+Lab)

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1085+L	Anatomy and Physiology I (+Lab) *	4
BSC 1086+L	Anatomy and Physiology II (+Lab) *	4
CHM 2045+L	General Chemistry I (+Lab) *	4
HSC 2100	Personal Health	3
MAC 1105	College Algebra *	3
PSY 2012	General Psychology *	3
SPC 2608	Basic Communication Skills *	3
STA 2023	Elements of Statistics *	3
HSC 3406C	Advanced First Aid and Emergency Care	3
Total Hours		30

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	0-23
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Recommend ATR 2010 Advanced Prevention and Care of Injuries in Health, Leisure, and Sports and either PEO 2031 Analysis of Individual Sports or PET 2824 Analysis of Team Sports be taken at the lower division.

Major

APK 3110+L	Exercise Physiology (+Lab) +	4
APK 3220C	Biomechanical Basis of Movement	4
APK 3232	Measurement and Evaluation in Health, Leisure, and Sports +	3
APK 4600	Aging and Physical Performance +	3
ATR 2010	Advanced Prevention and Care of Injuries in Health, Leisure, and Sports +	3
APK 4200	Motor Development and Skill Learning +	3
APK 4409	Success in Sports +	3
APK 4163	Sport Nutrition and Weight Control +	3
PET 4380+L	Exercise Testing and Prescription (+Lab) +	4
APK 4114C	Physiological Basis of Strength Development +	3
APK 4119	Exercise Testing for Special Populations +	3
APK 4234C	Electrocardiogram Interpretation and Graded Exercise Testing	3
APK 4941C	Senior Capstone Experience in Exercise Science +	6
Total Hours		45

+ Courses included in the major GPA

Major-Related

Choose one of the following:	3
COM 4110	Business and Professional Communication
SPC 3301	Interpersonal Communication
Choose a minimum of 12 semester hours:	12
BCH 3033	Biochemistry I (+Lab)

BCH 3034	Biochemistry II (+Lab)
BSC 2010	Biology I (+Lab)
BSC 2011	Biology II (+Lab)
CHM 2046	General Chemistry II (+Lab)
CHM 2210	Organic Chemistry I (+Lab)
CHM 2211	Organic Chemistry II (+Lab)
CLP 3144	Abnormal Psychology
HLP 3300	Organization and Administration of Professional Programs
HSC 3535	Introduction to Medical Terminology
HSC 4104	Health Aspects of Stress Management
HSC 4143	Drugs in Society
HSC 4300	Changing Health Behaviors
HSC 4500	Epidemiology
HSC 4551	Communicable and Degenerative Diseases
HSC 4572	Nutrition and Health
HSC 4581	Health Promotion and Planning
ATR 3132	Functional Kinesiology
PET 3905	Directed Study
APK 4603	Balance and Mobility Training for Older Adults
ATR 4314	Rehabilitation of Athletic Injuries
PHY 2053	General Physics I (+Lab)
PHY 2054	General Physics II (+lab)
STA 3162C	Applied Statistics
STA 4173	Biostatistics
Optional (choose one):	
PEO 2031	Analysis of Individual Sports
PET 2824	Analysis of Team Sports
Optional (choose one):	
SPM 3104	Sport Facility and Event Management
SPM 4723	Sport Law and Risk Management

Total Hours 15

Fitness and Conditioning

The Fitness and Conditioning specialization prepares students with a foundation of health, pedagogical, and exercise science knowledge to pursue careers in health, community and educational based strength and conditioning programs, recreation, K-12, collegiate, and elite sport coaching, private and corporate fitness and wellness centers, and as fitness specialists in rehabilitation settings.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 179)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 179)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 179)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Fitness and Conditioning majors should take BSC 1085 Anatomy and Physiology I/BSC 1085L Anatomy and Physiology I Laboratory to fulfill the laboratory science component.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
BSC 1085 & 1086	Anatomy and Physiology I and Anatomy and Physiology II *	6

4 credit hours in Skill Development Courses in Physical Activities	4
Total Hours	19

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	4-8
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Major

APK 3110+L	Exercise Physiology (+Lab) +	4
APK 3232	Measurement and Evaluation in Health, Leisure, and Sports +	3
APK 4114C	Physiological Basis of Strength Development +	3
APK 4163	Sport Nutrition and Weight Control	3
APK 4200	Motor Development and Skill Learning	3
APK 4409	Success in Sports	3
PEP 3505	Non-Traditional Sports	3
BSC 1085L	Anatomy and Physiology I Laboratory	1
HLP 3300	Organization and Administration of Professional Programs +	3
PET 3020	Foundations of Physical Education and Sport Management +	3
PET 3640	Adapted Physical Education and Sport +	3
PET 3825	Educational Gymnastics and Dance +	3
PET 4310C	Mechanics of Human Motion +	4
PET 4442	Physical Education in the High School +	2
PET 4765	Theory and Practice of Coaching +	3
PET 4928	Practicum III: High School Physical Education +	1
Total Hours		45

+ Courses included in the major GPA

Major-Related

Choose one		3
HSC 4300	Changing Health Behaviors	
HSC 4104	Health Aspects of Stress Management	
HLP 4940	Internship	1-6
HSC 4551	Communicable and Degenerative Diseases	3
Total Hours		7-12

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	3-8
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Physical Education Teacher Education Specialization

Students interested in becoming certified Physical Education teachers in grades K-12 will be able to do so by enrolling in the Physical Education Teacher Education Specialization. The Physical Education Teacher Education specialization is a Florida Department of Education approved program and is part of the CAEP accredited Professional Education Unit.

In addition to the university's general requirements, students seeking the B.S. in the HLES/Physical Education Teacher Education

specialization must have a cumulative GPA of 2.50 or greater in all previously attempted college work and have passing scores on the General Knowledge test of the Florida Certification Exam.

For admission to student teaching, students must meet the requirements listed below:

- Grade of “C” or higher in all major related courses
- 2.50 or greater cumulative GPA
- Passing scores on the Professional Education Test, General Knowledge Exam, and the Physical Education Subject Area test of the Florida Teacher Certification Exam
- Completion of 100 service hours approved by the Physical Education Teacher Education Program committee
- Approval by the Physical Education Teacher Education Program Committee

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 179)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 179)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology
Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 179)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Physical Education majors should take BSC 1085 Anatomy and Physiology I/BSC 1085L Anatomy and Physiology I Laboratory to fulfill the laboratory science component.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1085+L	Anatomy and Physiology I (+Lab) *	4
EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
PET 2824	Analysis of Team Sports	3

PEO 2031	Analysis of Individual Sports	3
PEM XXXX	- Skill Development Courses in Physical Activities	2-3
Total Hours		21-22

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Major

APK 3110+L	Exercise Physiology (+Lab) +	4
HLP 3300	Organization and Administration of Professional Programs +	3
APK 3232	Measurement and Evaluation in Health, Leisure, and Sports +	3
HSC 3406C	Advanced First Aid and Emergency Care +	3
PEP 3505	Non-Traditional Sports	3
PET 3020	Foundations of Physical Education and Sport Management +	3
PET 3640	Adapted Physical Education and Sport +	3
PET 3825	Educational Gymnastics and Dance +	3
PET 4310C	Mechanics of Human Motion +	4
PET 4442	Physical Education in the High School +	2
PET 4710	Special Methods in Physical Education +	3
PET 4720	Physical Education in the Elementary School +	2
PET 4730	Physical Education in the Middle School +	2
PET 4765	Theory and Practice of Coaching +	3
PET 4926	Practicum I: Elementary School Physical Education +	1
PET 4927	Practicum II: Middle School Physical Education +	1
PET 4928	Practicum III: High School Physical Education +	1
Total Hours		44

Major-Related

EDF 3234	Applied Foundations of Education	3
EDG 3323	General Methods of K-12 Reading Instruction	3
PET 4744	Student Teaching in Physical Education +	6-7
TSL 4080	ESOL Principles and Practices	3
Total Hours		15-16

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours		0-1
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Sport Management Specialization

The Sport Management specialization prepares students for entry level careers as potential leaders and administrators in the sports industry and for further study in graduate school. Possible positions may be found in collegiate athletics, municipal park and recreation departments, community sports programs, professional sports leagues, amateur sports organizations, and commercial sports industries such as fitness and activity centers, sports camps, and other private sports organizations. An internship in the field is a capstone experience for students in this specialization.

Students in Sport Management must complete 42 sh of major core courses and complete 18 sh major related courses. The major core courses include a 6 sh Senior Capstone Experience.

Requirements for admission to the capstone experience are as follows:

- Grade of "C" or higher in all courses used to fulfill major requirements;
- At least a 2.50 cumulative GPA in the major;
- No more than 9 sh remaining to completion of all major courses and major related courses excluding the 6 sh Senior Capstone Experience in Sport Management;
- Completion of SPM 4003 - Sport Management Careers Seminar; and
- Recommendations of academic advisors and the director of the Sport Management program.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 179)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 179)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology
Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience
Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 179)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 179)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Sport Management majors should take the following to satisfy components of General Education:

Social Science/Behavioral Perspective:	3
PSY 2012	General Psychology
or DEP 2004	Human Development Across the Lifespan
Mathematics:	6
STA 2023	Elements of Statistics
MAC 1105	College Algebra
Humanities/Values and Expressions	3
SPC 2608	Basic Communication Skills
Natural Sciences:	8
BSC 1085+L	Anatomy and Physiology I (+Lab)
BSC 1086+L	Anatomy and Physiology II (+Lab)

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

BSC 1085+L	Anatomy and Physiology I (+Lab) *	4
ATR 2010	Advanced Prevention and Care of Injuries in Health, Leisure, and Sports	3
Choose one:		3
FIN XXXX	Courses with a finance emphasis	
MAR XXXX	Courses with a marketing emphasis	
GEB XXXX	Courses with a general business emphasis *	
Choose one:		3
MAN XXXX	Courses with a management emphasis	
BUL XXXX	Courses with a business law emphasis	
CGS XXXX	Courses with a general computer emphasis	
STA XXXX	Courses with a statistics emphasis	
ACG XXXX	Courses with a general accounting emphasis	
REE XXXX	Courses with a real estate emphasis	
Choose one:		3
HFT XXXX	Courses with a hospitality management emphasis	
ECO XXXX	Courses with an economics emphasis *	
SDS XXXX	Courses with a student development emphasis	
COM XXXX	Courses with a communication emphasis	
Total Hours		16

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. Economics majors should include electives that will help to prepare them for potential minor programs of study. Students should consult their academic advisor for guidance in course selection

Major

HFT 3221	Human Resources in the Hospitality Industry *	3
SPM 3004	Introduction to Contemporary Sport Management *	3
SPM 3104	Sport Facility and Event Management *	3
SPM 3306	Sports Marketing *	3
SPM 3403	Sport Media *	3
SPM 3115	Organizational Management and Leadership in Sport *	3
SPM 4503	Economic Issues in Sport *	3
SPM 4505	Principles and Issues in Sport Finance *	3
SPM 4012	Sociology of Sport *	3
SPM 4604	Governance in Sport *	3
SPM 4723	Sport Law and Risk Management *	3
SPM 4003	Sport Management Careers Seminar *	3
SPM 4945	Senior Capstone Experience in Sport Management *	6
Total Hours		42

+ Courses included in the major GPA

Major-Related

ACG 3082	Accounting for Non-Majors	3
COM 4110	Business and Professional Communication	3

MAN 3025	Management Fundamentals	3
MAR 3023	Marketing Fundamentals	3
PSY 4832	Sport and Exercise Psychology	3
Choose one of the following:		3
ADV 3000	Introduction to Advertising	
ECO 3003	Principles of Economic Theory and Public Policy (If ECO2013 not completed as part of common prerequisites)	
MAN 3240	Behavior in Organizations	
PUR 3000	Principles of Public Relations	
Total Hours		18

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Health Sciences

The B.S. in Health Sciences Program is designed for undergraduate students who wish to complete their degree in health and health care. This degree is geared toward developing health professionals who are empowered to promote the health and well-being of the populations they serve. Our students learn the foundational skills necessary to succeed in the health care environment and/or enter post-baccalaureate academic programs in public health, health care administration or in clinical care.

Program Requirements

In order to graduate, all students must complete at least 120 semester hours with a minimum of 48 specified upper-division hours (3000/4000 level) at UWF.

Acceptance to the University does not constitute admission to the upper division Health Science Program. Students entering UWF or declaring a major in Health Sciences will automatically be placed in a pending status until they meet the requirements for admission.

- Students must have a cumulative GPA of 2.50 in all previously attempted college work.
- Students must successfully complete all prerequisite courses with a grade of "C" or better.
- Student must be at the level of a sophomore or higher.
- Students will not be admitted to the program less than one week before the beginning of the term in which they have applied.
- Students must complete the Health Science Application form.

Those who do not complete these requirements may be denied further registration, and may be prevented from further enrollment in Health Science courses.

Not all states authorize online programs, if you are residing outside of Florida you will want to check the status of your state's acceptance of this program: <http://uwf.edu/online/out-of-state-students/state-authorization/>

This program will not meet immigration requirements for students holding an F1 or J1 Visa to maintain status. Contact the International Student Office for further information: <http://uwf.edu/internationaloffice/>

No more than 24% of the program requirements for this degree may be in traditional business subjects.

Consult with your academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 189)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 189)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 189)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 189)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 189)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 189)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Students should take the following to satisfy components of General Education:

Mathematics:	10
MAC 1105	College Algebra
STA 2023	Elements of Statistics
Social Science:	3
PSY 2012	General Psychology

Common Prerequisites

BSC 1005+L	General Biology for Non-Majors (+Lab) (or any BSCXXXX with lab course)*	3
MAC 1105	College Algebra (Intermediate Algebra or appropriate score on placement test is required.) *	3
PSY 2012	General Psychology *	3

STA 2023	Elements of Statistics *	3
CGS 2570	Personal Computer Applications	3
Other CGS advisor approved course		
Total Hours		15

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		8-21
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Major

HSC 3034	Current Issues in the Health Sciences +	3
BUL 4602	Legal Fundamentals of Healthcare and Public Health +	3
HSC 3535	Introduction to Medical Terminology +	3
HSA 3111	Understanding U.S. Health Care +	3
Choose one:		3
HSA 4191	Health Information Systems +	
HSA 4192	Current Topics in Health Informatics +	
HSA 4193	Electronic Clinical Record Systems +	
HSC 4050	Health Sciences Research Seminar +	3
Total Hours		18

Major-Related

Students will concentrate their major-related work in one of the following areas of emphasis. Students will speak with an academic advisor to discuss prerequisites and possible transfer courses which may meet prerequisite requirements.

Allied Health Specialization

PCB 4703	Human Physiology +	3
GEY 4001	Gerontology +	3
HSC 4551	Communicable and Degenerative Diseases +	3
HSC 4658	End-of-Life Ethics +	3
HSC 3555	Pathophysiology +	3
HSC 4XXX	Holistic Hlth Care +	3
HSC 4XXX	Drugs and The Body +	3
PHC 4101	Public Health +	3
HSC 4404	Medical Disaster Management +	3
PHC 4363	Occupational Safety and Health in the Health Care Environment +	3
Advisor approved electives		12
Total Hours		42

+ Courses included in the major GPA

Health Care Administration Specialization

PHC 4101	Public Health +	3
HSA 4110	Health Care Policy and Administration +	3
Choose one		3
MAN 3025	Management Fundamentals +	

HSA 4002	Healthcare Administration +	
Choose one		3
MAN 3301	Human Resources Management +	
HSA 4340	Personnel Administration in Healthcare +	
Choose one		3
MAN 4102	Management of Diversity +	
HSA 4192	Current Topics in Health Informatics +	
MAR 3023	Marketing Fundamentals +	3
HSA 3140	Strategic Planning in Health Care +	3
Advisor approved electives (no more than 24% of the program requirements for this degree may be in traditional business subjects)		21
Total Hours		42

+ Courses included in the major GPA

Health Care Professional Specialization

Students in this specialization must have earned an A.S. degree in an appropriate health care area.

ACG 3082	Accounting for Non-Majors +	3
ECO 3003	Principles of Economic Theory and Public Policy +	3
ENC 3250	Professional Writing +	3
Choose one of the following:		3
PCB 4703	Human Physiology +	
HSC 3555	Pathophysiology +	
GEY 4001	Gerontology +	3
HSC 4658	End-of-Life Ethics +	3
HSC 4404	Medical Disaster Management +	3
PHC 4363	Occupational Safety and Health in the Health Care Environment +	3
HSC 4XXX	Holistic Hlth Care +	3
Advisor approved electives		15
Total Hours		42

+ Courses included in the major GPA

Public Health Specialization

PHC 4101	Public Health +	3
HSC 4404	Medical Disaster Management +	3
MCB 4276	Epidemiology of Infectious Disease +	3
PHC 4109	Scientific Basis of Public Health +	3
PHC 4140	Public Health Planning and Analysis +	3
Choose one of the following:		3
PHC 4340	Fundamentals of Industrial Hygiene +	
PHC 4341	Fundamentals of Occupational Safety and Health +	
PHC 4363	Occupational Safety and Health in the Health Care Environment +	
Advisor approved electives		24
Total Hours		42

+ Courses included in the major GPA

Advisor-approved Electives

Students should discuss their career plans with an academic advisor and choose additional courses to support their career goals. Students

are recommended to consider electives which are included in certificates. Recommended courses may include the following:

ACG 3082	Accounting for Non-Majors	3
APK 4600	Aging and Physical Performance	3
BCH 3033	Biochemistry I	3
BSC 4854	Bioterrorism	3
CGS 3604	Applications of Information Technology	3
CHM 2210	Organic Chemistry I	3
CLP 3144	Abnormal Psychology	3
CLP 4314	Health Psychology	3
COM 4022	Health Communication	3
COP 4710	Database Systems	3
DEP 4404	Adulthood and Aging	3
EAB 4704	Introduction to Behavior Modification	3
ECO 3003	Principles of Economic Theory and Public Policy	3
ENC 3250	Professional Writing	3
GEY 4001	Gerontology	3
HSA 4110	Health Care Policy and Administration	3
HSA 4192	Current Topics in Health Informatics	3
HSA 4193	Electronic Clinical Record Systems	3
PHC 4140	Public Health Planning and Analysis	3
HSC 4404	Medical Disaster Management	3
HSC 4658	End-of-Life Ethics	3
MCB 3020	Microbiology	3
MCB 4276	Epidemiology of Infectious Disease	3
MAN 3301	Human Resources Management	3
MAN 4102	Management of Diversity	3
PCB 4233	Immunology	3
PCB 4703	Human Physiology	3
PCO 4310	Intervention in Addictions	3
PHC 4101	Public Health	3
PHC 4109	Scientific Basis of Public Health	3
PHC 4340	Fundamentals of Industrial Hygiene	3
PHC 4341	Fundamentals of Occupational Safety and Health	3
PHC 4363	Occupational Safety and Health in the Health Care Environment	3
PHY 2053	General Physics I	3
PSB 4002	Brain, Behavior, and Experience	3
PSB 4731	Psychobiology of Sexual Behavior	3
PSY 4832	Sport and Exercise Psychology	3
SOW 3314	Case Management	3
SOW 4111	Adolescents At Risk	3
SOW 4242	Families and Family Treatment	3

Please email the Health Sciences Program for more information (healthsciences@uwf.edu ()).

Certificates

Public Health: Occupational Safety and Health Certificate

Department: [School of Allied Health and Life Sciences](#)

Method of Instruction: [Online](#)

Semester Hours: 9

This certificate program was designed to meet the needs of public health practitioners who have collateral responsibility for worker safety and health as well as those assigned primary responsibility. Completion of this certificate provides the student a broad-based foundation in occupational safety and health that enhances recognition, evaluation and control of workplace hazards. Occupational safety and health management tools and skills are identified and

explored that can be implemented in the public practice health practitioner's work environment to bring about improvements in worker safety and health.

PHC 4341	Fundamentals of Occupational Safety and Health	3
PHC 4340	Fundamentals of Industrial Hygiene	3
PHC 4363	Occupational Safety and Health in the Health Care Environment	3
<hr/>		
Total Hours		9

History

The B.A. in History is designed to provide students with the skills necessary to research and interpret the past. Emphasis is placed upon active participation in the creative process of historical inquiry. The department offers two specializations: History (a generalist degree) and Pre-Law.

Students planning to go to graduate school are strongly advised to attain proficiency in foreign languages.

Students interested in obtaining certification to teach this subject area in secondary education need to contact an advisor in this department to carefully plan the course work to satisfy degree and some teacher certification requirements. A degree in this major is required for participation in teacher education certification options.

Program Requirements

In addition to general University requirements, students seeking the B.A. in History must meet the requirements listed below.

A minimum grade of "C" is required in all major courses.

History Capstone Experience: All majors are required to complete the History

Capstone Experience, which produces a student-assembled, student-maintained portfolio of their final research paper from Methods and Materials, Junior

Seminar and completion of a Senior Capstone Experience. Students may not

complete the Junior Seminar until successful completion of Methods and Materials.

Seniors may not complete their Capstone Experience until successful completion of the Junior Seminar. The Senior Capstone Experience includes a final research paper completed in an upper-level history course. The course must be a

regularly-scheduled course taught by a member of the regular line History

faculty and fall in the student's final fall or spring semester.

The History Capstone Experience cannot be embedded in a lower-level History

course, a summer course, a course from another discipline, or a directed study

and cannot be contracted with a faculty member from another discipline or a

member of the adjunct History faculty. The History Capstone Experience must be

arranged via a contract between the student and professor at the beginning of

the student's final semester of coursework and should represent the student's best

work.

At the heart of the History Capstone Experience is the research/writing component, which might be a major paper or a series of shorter analytical

papers, an individual project or an individual's contribution to a larger group/class

project, a documentary, a simulation exercise, a series of oral histories, and/or in-class presentations.

The research/writing component should meet most, if not all, of the expectations

of the History Capstone Experience, which are linked to the five domains of the

History Academic Learning Compact: content knowledge, critical-thinking,

communication, ethics and integrity, and project management.

Consult with your academic advisor for courses which may satisfy both the

General Education requirements and common prerequisites.

The final assessment is a comparison, with a rubric, of the final papers for

Methods and Materials, Junior Seminar, and Senior Capstone Experience. The

student must maintain this portfolio.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements.

With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 193)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 193)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 193)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 193)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 193)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 193)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Consult with your academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Two lower division courses in history with AMH, EUH, LAH, ASH, HIS, or WOH prefixes. Choosing two from the following list is highly recommended:

AMH 2010	United States to 1877	3
AMH 2020	United States since 1877	3

EUH 1000	Western Perspectives I	3
EUH 1001	Western Perspectives II	3

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	18-21
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History Specialization

Major

AMH 2010	United States to 1877	3
AMH 2020	United States since 1877	3
EUH 1000	Western Perspectives I	3
EUH 1001	Western Perspectives II	3
HIS 3002	Methods and Materials Colloquium ⁺	3
HIS 3930	Junior Seminar ⁺	3
Two 3000/4000 level American History (AMH) courses ⁺		6
Two 3000/4000 level European History (EUH) courses ⁺		6
3000/4000 level course with AFH, ASH, or LAH prefix ⁺		3
Four 3000/4000 level History courses with AFH, AMH, ASH, EUH, HIS, or LAH prefixes ⁺		12
Total Hours		45

⁺ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	15
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Minors

A minimum grade of "C" is required in all minor courses.

History

History majors may not earn this minor. A Minor in History consists of 15 sh of upper-level course work in a planned program which includes:

U.S. History	6
European History	6
History elective	3
Total Hours	15

Pre-Law

The Minor in Pre-Law is designed to provide a concentration of topically pertinent history courses to any student wishing to understand the historical background and development of American law and the Constitution. History majors may not earn this minor.

AMH 4551	U. S. Constitutional and Legal History (to 1877)	3
AMH 4552	U. S. Constitutional and Legal History (Since 1877)	3
AMH 4575	Civil Rights	3
EUH 4503	English Constitutional and Legal History	3
EUH 4545	British Political Thought in the Early Modern Era	3
Total Hours		15

Hospitality, Recreation, and Resort Management

The B.S. in Hospitality, Recreation and Resort Management (HRRM) program incorporates classroom instruction coupled with experiential learning; as well as, internships to provide students with the core competencies necessary to be successful in a broad array of service venues: convention and visitors bureaus, resorts, commercial recreation, restaurants, tourism services, spas, community recreation centers, hotels, amusement parks, private clubs, and more.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Hospitality, Recreation and Resort Management must meet the requirements listed below.

A grade of "C" or higher must be earned in all courses used to fulfill HRRM core requirements. A grade of "C-" or higher must be earned in all major-related courses. Additionally, students must earn a 2.5 cumulative GPA in the HRRM major. No more than 24% of the program requirements for this degree may be in traditional business subjects. Students should consult their advisor regarding courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 196)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 196)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 196)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 196)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 196)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 196)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Hospitality, Recreation and Resort Management majors should take the following courses to satisfy components of the General Education curriculum courses:

Mathematics	6
STA 2023	Elements of Statistics
MAC 1105	College Algebra
Social Sciences/Socio-Political	3
ECO 2013	Principles of Economics Macro

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

HFT 2000	Introduction to the Hospitality Industry	3
Total Hours		3

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use electives at any level (1000-4000) to meet this elective requirement.

Total Hours		21
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Major

HFT 3003	Travel and Tourism Management +	3
HFT 3214	Hospitality Safety, Sanitation and Risk Management +	3
HFT 3221	Human Resources in the Hospitality Industry +	3
Choose one:		3

HFT 3414	Managing Front Office Operations +	
HFT 1254	Lodging Operations +*	

Choose one:		3
HFT 3814C	Management of Food and Beverage Operations +	

or both:		
FSS 1221C	Intro to Culinary Production +*	
HFT 2850C	Management of Dining +*	

HFT 4277	Resort Operations and Management +	3
HFT 4295	Strategic Leadership in Hospitality Management +	3
HFT 4503	Marketing Essentials for Hospitality Management +	3
HFT 4343	Planning and Design for the Hospitality Industry +	3
HFT 4426	Financial Decision Making & Revenue Management for the Hospitality Industry +	3
HFT 4940	Internship in Hospitality Management +	3
Total Hours		33

* Course offered locally by Pensacola State College

Choose one emphasis from the following (12 sh total)

Recreation and Sport Management

LEI 3140	Leisure and Society +	3
LEI 4400	Programming and Special Events +	3
Choose two courses from the following:		6
HFT 4753	Convention Facilities and Meetings Management +	
LEI 4321	Sport, Adventure and Ecotourism +	
LEI 4332	Community Tourism Development +	
LEI 4350	Outdoor Leisure +	
SPM 3004	Introduction to Contemporary Sport Management +	
SPM 3104	Sport Facility and Event Management +	
SPM 3306	Sports Marketing +	
SPM 3403	Sport Media +	

Or advisor approved elective		
Total Hours		12

Amenity and Event Management

Choose four courses from the following:		12
HFT 3271	Spa Management +	

HFT 3333	Contemporary Club Management ⁺	
HFT 4274	Condominium and Vacation Interval Ownership ⁺	
HFT 4753	Convention Facilities and Meetings Management ⁺	
LEI 4332	Community Tourism Development ⁺	
LEI 4400	Programming and Special Events ⁺	
Or advisor approved course		

Total Hours		12
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Walt Disney World Experiential Learning Program

HFT 3932	The Disney Semester: Experiential Learning in the Hospitality Industry ⁺	12
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Choose from the following Disney courses (offered only on-site with Disney):

Disney Corporate Analysis		
Disney Advanced Studies in Hospitality Management		
Disney Organizational Leadership		
Disney Corporate Communications		
Disney Human Resource Management		
Disney Interactive Learning		
Disney Creativity and Innovation		
Disney Experiential Learning		
Or advisor approved course		

* Students interested in the Disney Experiential Learning program should contact our advisor at (850) 474-2774

Major-Related

ACG 3082	Accounting for Non-Majors ⁺	3
COM 4110	Business and Professional Communication ⁺	3
MAN 3025	Management Fundamentals ⁺	3
MAN 3240	Behavior in Organizations ⁺	3
MAR 3023	Marketing Fundamentals ⁺	3
Total Hours		15

+ Courses included in the major GPA

Two Plus Two Program: Bachelor of Science Degree in Hospitality, Recreation & Resort Management with Culinary Management Emphasis

Only offered in conjunction with Pensacola State College or Gulf Coast State College.

Note: The University of West Florida does not offer a culinary degree.

Students transferring with an Associate of Science in Culinary Management from either Pensacola State College or Gulf Coast State College have the ability to transfer to The University of West Florida and earn a Bachelor of Science in Hospitality, Recreation & Resort Management with an emphasis in Culinary Management. Students will be required to take the 42 hours associated with the HRRM Major Core and Major#Related courses. An additional 18 hours in general education courses are required to complete the bachelor degree. Please contact our advisor at (850) 474#2774 for proper sequencing of courses.

33 hours major core courses*	27
15 hours major-related courses	15
18 hours general education courses	18
Courses from Culinary Management Degree	60
Total Hours	120

* FSS 1221C Introduction to Culinary Production and HFT 2850C Management of Dining will both have already been taken at previous institution.

Two Plus Two Program: Bachelor of Science Degree in Hospitality, Recreation & Resort Management

Students transferring with an Associate of Science in Hospitality and Tourism Management from either Pensacola State College or Gulf Coast State College have the ability to transfer to The University of West Florida and earn a Bachelor of Science in Hospitality, Recreation & Resort Management. Students will be required to take the 42 hours associated with the HRRM Major Core and Major#Related courses. An additional 18 hours in general education courses are required to complete the bachelor degree. Please contact our advisor at (850) 474#2774 for proper sequencing of courses.

33 hours major core courses*	27
15 hours major-related courses	15
18 hours general education courses	18
Courses from Culinary Management Degree	60
Total Hours	120

* HFT 1254 Lodging Operations and HFT 2850C Management of Dining will both have already been taken at previous institution.

Minors

Hospitality, Recreation & Resort Management

The Minor in Hospitality, Recreation, and Resort Management exposes students to the courses that serve as a foundation for a career in hospitality management. A grade of "C" or better on all minor courses. A minor in this area is comprised of 18sh and is ideal for students who want to apply their major discipline within hospitality or tourism venues. This minor is not available to HRRM majors.

HFT 2000	Introduction to the Hospitality Industry	3
HFT 3221	Human Resources in the Hospitality Industry	3
HFT 3414	Managing Front Office Operations [*]	3
HFT 4503	Marketing Essentials for Hospitality Management	3
Choose two courses from the following:		6
HFT 3003	Travel and Tourism Management	
HFT 3214	Hospitality Safety, Sanitation and Risk Management	
HFT 3814C	Management of Food and Beverage Operations	
HFT 4277	Resort Operations and Management	
HFT 4343	Planning and Design for the Hospitality Industry	
HFT 4426	Financial Decision Making & Revenue Management for the Hospitality Industry	
Or advisor approved course		
Total Hours		18

* Or HFT 1254 Lodging Operations offered at Pensacola State College

Humanities, Interdisciplinary

Arts Administration Specialization

Building	Phone	Website	Email
Building 82, Room 231	(850) 857-6057	uwf.edu/ interdisciplinary	jbrisky@uwf.edu

Women's and Gender Studies Specialization

Building	Phone	Website	Email
Building 41, Room 217	(850) 474-2357	uwf.edu/ interdisciplinary	spbs@uwf.edu

The B.A. in Interdisciplinary Humanities program affords students the opportunity to select one of two specializations: Arts Administration or Women's and Gender Education. Students should note that courses taken for the chosen discipline may not be used to complete the requirements for additional majors or minors.

Program Requirements

In addition to the university's general requirements, students seeking the B.A. in Interdisciplinary Humanities must meet the requirements listed below. A grade of "C" or higher must be earned in all courses used to fulfill major requirements. Additionally, Students must earn a 2.50 cumulative GPA in the major. No more than 24% of the program requirements for this degree may be in traditional business subjects.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 199)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 199)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 199)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 199)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 199)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

- * May be taken with or without lab.
- ** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.
- *** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives
(p. 199)
Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Arts Administration Specialization

Students in the Arts Administration will gain a broad understanding of the various administrative functions within any arts organization. These functions include but are not limited to Marketing, Fundraising and Management. The student also receives intensive training in the chosen artistic discipline including Visual Art, Music or Theatre. The program offers a solid foundation for either employment in a professional environment or additional graduate study in Arts Administration.

General Studies

In addition to the general studies requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements.

With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Studies curriculum. For a complete listing of general degree requirements, refer to the "[Graduation and General Degree Requirements](#)" section of this catalog.

Recommend that students take the following to fulfill their General Studies requirements in the following areas:

MMC 2000	Principles of Mass Communication ¹	3
SPC 2608	Basic Communication Skills ²	3
Choose one based on Fine or Performing Arts Concentration:		
ARH 2051	Western Survey II: Baroque to Contemporary ³	3
MUL 2010	Music Appreciation	3
THE 2000	The Theatre Experience ³	3

- 1 Socio-Political Perspectives
- 2 Contemporary Values and Expressions
- 3 Fine Arts

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	24
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Major

Arts Administration Core

Arts Administration Core		
ART 2602C	Introduction to Digital Studio Practice	3
or ADV 2214	Advertising Graphics I	
TPA 4504	Performing Arts Administration ⁺	3
Total Hours		6

Capstone Experience

The Capstone Experience will consist of an internship in the administration department of a concentration appropriate nonprofit arts organization. Students will also be required to submit a paper outlining their internship at its conclusion.

COM 4940	Internship in Communication ⁺	1
Total Hours		1

Fine or Performing Art Concentration

Students will choose a major concentration in Art, Music or Theatre		18
Art Track:		
ARH 4830C	Museum and Gallery Studies ⁺	3
3000/4000 level advisor approved Studio Art or Art History Electives ⁺		15
Music Track:		
MUH 3212	History of Western Music II: 18th through 20th Centuries ⁺	3
3000/4000 level advisor approved Music Electives ⁺		15
Theatre Track:		
TPA 3601	Stage Management ⁺	3
THE 3090	Theatrical Production & Performance ^{1, +}	3
3000/4000 level advisor approved Theatre Electives ⁺		12

¹ 1 sh for 3 semesters

Major-Related

ACG 3082	Accounting for Non-Majors ⁺	3
ADV 3000	Introduction to Advertising ⁺	3
MAN 3025	Management Fundamentals ⁺	3
MAR 3023	Marketing Fundamentals ⁺	3
PUR 3000	Principles of Public Relations ⁺	3
Choose one of the following:		3
PUR 3100	Writing for Public Relations ⁺	
JOU 4306	Writing Critical Reviews ⁺	
Total Hours		18

⁺ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	17
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Women's and Gender Studies Specialization

Students analyze the significance of gender in all areas of life, especially in the social formation of human identities, practices, and institutions. Women's and Gender Studies provides students with an intellectual framework in which the analysis of gender can be creatively and critically applied to their personal, familial, professional, and civic roles. Women's Studies, in particular, provides students with knowledge of women's roles and influence in culture, as well as the impact of social institutions, systems, and philosophies or attitudes toward women. This specialization also requires the completion of an approved minor and participation in UWF's Annual Women's and Gender Studies Student Conference. The combination of the interdisciplinary specialization and a related minor prepares students for pursuing a wide array of careers in teaching, counseling, community relations, law, recreation, social work, and business, with an enhanced understanding of how gender and sexual politics operate in those professional and social environments.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.	24
Total Hours	24

Major

Women's and Gender Studies Core	9	
HIS 3313	Issues in Gender and Diversity ⁺	
SOP 4702	Psychology and Gender ⁺	
SYD 3810	Introduction to Women's Studies ⁺	
Capstone Experience: [*]	3	
HUM 4911	Interdisciplinary Humanities Capstone ⁺	
Total Hours	12	

^{*} The capstone experience includes organizing, participating in, and evaluating the annual Women's Studies Conference.

Major-Related

Choose six of the following:	18	
AML 3624	Black Women Writers ⁺	
ANT 4302	Sex Roles in Anthropological Perspective ⁺	

ARH 3871	Women in Art	
COM 4014	Gender and Communication ⁺	
ENG 3843	Theories of Sexuality and Gender ⁺	
LIT 4385	Feminist Theory ⁺	
PHM 4020	Philosophy of Sex and Love ⁺	
SYD 4800	Sociology of Sex Roles ⁺	
SYO 3100	The Family ⁺	
Required Minor: ⁺		12-18
Total Hours		30-36

⁺ Courses included in the major GPA

Students must complete an advisor approved minor or its 15 sh equivalent in a field related to the student's career objectives.

Upper Division Electives

The remainder of the program will be comprised of electives that students can select without limitation. However, students will be advised to select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level if necessary. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses at UWF.	12-18
Total Hours	12-18

Minors

Women's Studies

The Women's Studies Minor is an interdisciplinary program that provides students with knowledge of women's roles and influence in contemporary society, as well as the impact of social institutions, systems, and philosophies or attitudes toward women. Courses offer practical preparation for careers in teaching, counseling, community relations, law, recreation, social work, and business. Students can select classes from history, literature, fine arts, legal administration, psychology, nursing, sociology, and communication arts. Women's Studies provides several activities in which students pursuing the minor can participate: leadership conferences, speakers series, and Women's History Month presentations. This minor is available to all undergraduate students.

To receive a Minor in the Women's Studies Program, students must complete:

1. SYD 3810 Introduction to Women's Studies at UWF or WST 2010 at a community college.
2. a total of 15 semester hours of upper-division course work including, if taken, SYD 3810 Introduction to Women's Studies at UWF. Of the remaining 12 sh, 3 sh must be in the social sciences and 3 sh in the humanities. See advisor for preapproved courses.

Information Technology

The B.S. in Information Technology (IT) is a cooperative effort among COB, CEPS and CSEH. Students complete one of three IT specializations: Information Technology, Digital Enterprise, or Network Systems Operations.

Program Requirements

In addition to the university's general requirements, students seeking the B.S. in Information Technology must meet the requirements listed below.

No more than 24% of the program requirements for this degree may be in traditional business subjects. A minimum grade of "C-" is required for all major and major-related courses with a cumulative major GPA of 2.0 or higher. Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 202)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 202)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 202)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 202)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
ARH 1000	Art Appreciation	
LIT 2000	Introduction to Literature	
MUL 2010	Music Appreciation	
PHI 2010	Introduction to Philosophy	
THE 2000	The Theatre Experience	
Group B		
AML 2072	Sex, Money, and Power in American Literature	
ARH 2050	Western Survey I: Greek to Renaissance	
ARH 2051	Western Survey II: Baroque to Contemporary	
ART 1015C	Exploring Artistic Vision	
ART 2821	Art and Visual Culture Today	
IDH 1040	Honors Core 1	
MUH 2930	The Music Experience: Special Topics	
PHI 2103	Critical Thinking	
PHI 2603	Ethics in Contemporary Society	
REL 1300	World Religions	
THE 2300	Survey of Dramatic Literature	
SPC 2608	Basic Communication Skills	

Natural Sciences (p. 202)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 202)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

CGS 2570	Personal Computer Applications	3
COP 2253	Programming Using Java	3
COP 2830	Script Programming	3
ECO 2013	Principles of Economics Macro *	3
MAC 1140	Precalculus Algebra *	3
PHI 2603	Ethics in Contemporary Society *	3

PSY 2012	General Psychology *	3
STA 2023	Elements of Statistics *	3

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 24

Total Hours 24

Digital Enterprise Specialization

The Digital Enterprise specialization provides an applied study of Internet programming concepts, networking principles, website graphics and design development, and digital commerce technology. This curriculum features practical, hands-on experience with cutting-edge Internet computer applications. Successful graduates of the program will be prepared for high tech positions such as Internet programmer, webmaster, and Internet commerce technology analyst. Capstone experience is the Digital Enterprise Senior Project. For further information concerning this specialization, contact the Department of Computer Science.

Major

Information Technology Common Core		15
CNT 4007C	Theory and Fundamentals of Networks	
CGS 3604	Applications of Information Technology	
COP 4710	Database Systems	
GEB 3032	Business Foundations for Non-Business Majors	

Choose one of the following:

CIS 3512	Software Documentation	
ENC 3250	Professional Writing	
GEB 3213	Writing for Business: Theory and Practice	

Digital Enterprise Specialization 24

MAN 3025	Management Fundamentals	
MAR 3023	Marketing Fundamentals	
MAR 4721	Internet Marketing Principles	
MAR 4728	High Tech Product Marketing Strategy	
CIS 4595C	Capstone Systems Project	
COP 3813	Internet Programming	

Choose one of the following:

CGS 3464	Programming Using Visual Basic for Non-Majors	
ISM 3011	e-Business Systems Fundamentals	

Choose one of the following:

CGS 3183	Web Design for E-Commerce	
CIS 4340	Web Server Technologies	

Digital Enterprise Electives * 9

Total Hours 48

* 3000/4000 level electives should be chosen from the following prefixes: CAP, CGS, CIS, CNT, COP, or COT.

Major-Related

Electives should be chosen through discussion with the faculty advisor regarding the student's career goals. Electives must be approved by the Computer Science department. 12

Total Hours 12

Information Technology Specialization

The Information Technology Specialization provides a firm foundation of coursework, including programming principles, database concepts,

end-user support, security, administration, and systems planning. Graduates of this program will have strong knowledge of information technology skills required for entry-level positions including Application Support Analyst, Business Requirements Analyst, Database Analyst, Infrastructure Manager, Operations Manager, Network Manager, Project Manager, IT Manager/Director, Systems Architect, and Web Architect. For further information about this specialization, contact the Department of Computer Science.

Major

Information Technology Common Core	15
CGS 3604 Applications of Information Technology ⁺	
CIS 3512 Software Documentation ⁺	
CNT 4007C Theory and Fundamentals of Networks ⁺	
COP 4710 Database Systems ⁺	
GEB 3032 Business Foundations for Non-Business Majors	
Information Technology Specialization	27
CEN 4340C IT Infrastructure Planning, Acquisition, and Integration ⁺	
CGS 3464 Programming Using Visual Basic for Non-Majors ⁺	
CIS 4361C IT Security ⁺	
CIS 4595C Capstone Systems Project ⁺	
CNT 4014C IT Administration ⁺	
COP 4610 Theory and Fundamentals of Operating Systems ⁺	
COP 4723 Database Administration ⁺	
CTS 3159 End User Support ⁺	
CTS 4817 Web Server Administration ⁺	
Total Hours	42

⁺ Courses included in the major GPA

Major-Related

Electives should be chosen through discussion with the faculty advisor regarding the student's career goals. Electives must be approved by the Computer Science department.	18
Total Hours	18

Network Systems Operations

The specialization prepares learners to assume leadership roles in Technology Systems operations within an organization. Learners are prepared to apply technology within the constraints of efficiency, effectiveness, and reliability, as a strategic asset in the execution of an organization's goals. Learners in the program employ Technology Systems as the background for the three main areas of focus that are its foundation: project planning and implementation, complex problem analysis and resolution, and small group communication.

For further information contact the Department of Instructional, Workforce and Applied Technology at (850) 474-2484 or at iwat@uwf.edu.

Major

Information Technology Common Core	16
CGS 3604 Applications of Information Technology	
COP 4710 Database Systems ⁺	
EME 4622 Technology Systems Operations 1 ⁺	
GEB 3032 Business Foundations for Non-Business Majors ⁺	
Choose one of the following:	
CIS 3512 Software Documentation	
ENC 3250 Professional Writing	

GEB 3213 Writing for Business: Theory and Practice	
Network Systems Operations Specialization Courses	20
EME 3402 Information Technology Implementation Case Studies ⁺	
EME 3406 Web Presence Deployment Strategies ⁺	
EME 4313 Digital Media Services Operations ⁺	
EME 4454 Technology Systems Implementation Strategies ⁺	
EME 4627 Technology Systems Operations 2 ⁺	
EME 4944 Internship/Practica ⁺	
Total Hours	36

⁺ Courses included in the major GPA

Major-Related

Advisor approved courses from Department of Computer Science, Department of Applied Science, Technology, and Administration, and College of Business.

Upper Division Electives

Course List Electives to support the student's career goals should be chosen through discussion with the faculty advisor. Electives must be approved by the Applied Science, Technology and Administration Academic Advisor. 12

International Studies

Program Contact: uwf.edu/govt/faculty

International Studies is an interdisciplinary major designed to foster understanding and analysis of world issues. Major coursework provides a broad introduction to the world emphasizing culture, history, politics, geography and economics. Critical thinking and problem-solving skills are developed through the curriculum of study, as contextual knowledge is gained and contemporary problems examined. There are five International Studies tracks: Generalist, Security and Diplomacy, International Business and Economics, Cultural Affairs, and Area Studies. In the Generalist track, students take a broad spectrum of courses relating to their major. In the Security and Diplomacy track, students focus on political science, international relations, studies of conflict and war, diplomatic relations, international law and organizations, military issues, democratization, and politics in specific countries. In the International Business and Economics track, students focus on international trade, development, business and economics. In the Cultural Affairs track, students emphasize history, anthropology, geography, world languages, and humanities of countries outside of the United States. In the Area Studies track, students pay particular attention to one region of the world, such as Europe, Latin America, or Asia. The Area Studies track requires two semesters of a foreign language.

Program Requirements

In addition to general University requirements, students seeking the B.A. in International Studies must meet the requirements listed below.

Consult with your academic advisor for courses which may satisfy both the General Education and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 205)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 205)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	

Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 205)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 205)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A		
ARH 1000	Art Appreciation	
LIT 2000	Introduction to Literature	
MUL 2010	Music Appreciation	
PHI 2010	Introduction to Philosophy	
THE 2000	The Theatre Experience	
Group B		
AML 2072	Sex, Money, and Power in American Literature	
ARH 2050	Western Survey I: Greek to Renaissance	
ARH 2051	Western Survey II: Baroque to Contemporary	
ART 1015C	Exploring Artistic Vision	
ART 2821	Art and Visual Culture Today	
IDH 1040	Honors Core 1	
MUH 2930	The Music Experience: Special Topics	
PHI 2103	Critical Thinking	
PHI 2603	Ethics in Contemporary Society	
REL 1300	World Religions	
THE 2300	Survey of Dramatic Literature	
SPC 2608	Basic Communication Skills	

Natural Sciences (p. 205)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 205)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

**There are no Common Prerequisite courses mandated by the state for the International Studies program.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 24

Total Hours 24

Recommended electives are INR 2002 International Politics and CPO 2002 Comparative Politics.

Major

International Studies Common Core

Choose six courses, one each from at least five different academic fields: 18-24

Politics	
CPO 2002	Comparative Politics
INR 2002	International Politics
Analysis	
INR 3073	Analyzing Issues in International Politics +
POS 3033	Analyzing Issues in American Politics +
POS 3734	Political Science Research Methods
Culture	
ANT 3141	Origins of Civilization +
ANT 3212	Peoples and Cultures of the World +
History	
Any 3000/4000 level EUH or LAH course *, +	
Economics	
ECO 3003	Principles of Economic Theory and Public Policy **, +
Geography	
GEO 3421	Cultural Geography +
GEO 3471	Geography of World Affairs +
Total Hours	18-24

* or both [courseinline id="1">EUH 1000%7CCode Title and](#) [courseinline id="2">EUH 1001%7C- 6 sh](#)

** or both ECO 2013 Principles of Economics Macro and ECO 2023 Principles of Economics Micro – 6 sh

+ Courses included in the major GPA

Concentration Tracks

Choose five courses in one of the five tracks described below: 15-23

Generalist Track	
Choose five 3000/4000 level courses from at least four of the following areas of concentration (15 sh):	
-People and the Past - History (Common prefixes: AFH, EUH, *HIS, LAH) *	
-People and Places - Anthropology and Geography (Common prefixes: *ANT, GEA, *GEO) *	
-People and Ideas - Humanities (Common prefixes: *ARH, *ENL, *MMC, *MUH, *PHH, *REL, *SPC, *SPN) *	
Security and Diplomacy (Common prefixes: CPO, INR)	
International Business and Economics (Common prefixes: BUL, GEB, ECO, ECP, MAN, MAR):	
Cultural Affairs Track	
Choose five 3000/4000 level courses from across the disciplines of History, Anthropology, Geography, and all of the Humanities disciplines including Art, Literature, Music, Philosophy, Religious Studies, and World Languages. (Common prefixes: AFH, *ANT, *ARH, *ENL, EUH, GEA, *GEO, *HIS, LAH, *MMC, *MUH, *PHH, *REL, *SPC, *SPN) (15 sh) *	
Security and Diplomacy Track	
Choose five 3000/4000 level courses which are relevant to the subject areas of international relations, studies of conflict and war, diplomatic relations, international law and organizations, military issues, democratization, and politics in specific countries. (Common prefixes: CPO, INR) (15 sh)	
International Business and Economics Track	

Choose five 3000/4000 level courses which are relevant to the subject areas of international trade, economic development, business, management and economics. (Common prefixes: BUL, GEB, ECO, ECP, MAN, MAR) (15 sh)
No more than 24% of the program requirements for this degree may be in traditional business subjects.

Area Studies Track (21-23 sh) **

Choose five 3000/4000 level courses which focus on one or more countries within a specific world region (Asia, Europe, or Latin America.) Course substance can deal with any aspect of these countries. (Common prefixes: *ANT, *ARH, CPO, EUH, GEA, LAH, *REL. Additionally courses in advanced reading in literature from outside the U.S. apply here.) (15 sh) *

Additionally, the student must also take two language courses (6-8 sh) related to their region of study. (Common language prefixes: ARA, CHI, FRE, GER, JPN, POR, SPN, SPW)

Total Hours 15-23

* Some though not all of the courses with this prefix count. General rule: When selecting courses for the International Studies concentration tracks, let common prefixes be the guide and any 3000/4000 level course that deals primarily with one or more countries/regions of the world (non-U.S.) typically counts. Consult your advisor if you are unsure if a course is allowable.

** Students selecting this specialization have a 21-23 semester hour specialization rather than 15 sh for a total of 39-41 sh required for the major rather than 33 sh.

Upper Division Electives

Sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or completion of all departmental requirements at the 3000/4000 level, whichever is greater. 19-27

Total Hours 19-27

International Experience

All international studies majors must complete an international experience. Study abroad or travel abroad of greater than one week fulfills this requirement. Students with extenuating circumstances can see the study abroad advisor in the Department of Government for a list of approved alternatives to fulfill this requirement.

Minors

International Studies

A Minor in International Studies requires 12 sh in Core courses, and 6 sh in upper-division support courses, for a total of 18 sh. Of the 12 sh of upper division courses, at least 9 sh must be completed at UWF. International Studies majors may not earn this minor.

Core

CPO 2002	Comparative Politics	3
INR 2002	International Politics	3
Choose two of the following:		6
ANT 3212	Peoples and Cultures of the World	
ECO 3003	Principles of Economic Theory and Public Policy	
GEO 3471	Geography of World Affairs	
INR 3006	Conflict, Violence and Peace	
Support Courses		6
3000/4000 level courses chosen with the advice of the program director or department chair		
Total Hours		18

Legal Studies

The Legal Studies Program provides students with a broad understanding of basic principles of law and the role and function of the legal system. While no specific major is prescribed for admission to law school, many pre-law students elect to major in Legal Studies. The Legal Studies Program, in addition to preparing students for law-related careers, provides a foundation for law school or other graduate education. All of the full-time Legal Studies faculty are attorneys who are graduates of ABA-Approved law schools and are available for law school advising. Legal Studies students are encouraged to work closely with Legal Studies Advisors in planning their programs. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts with a major in Legal Studies.

Program Requirements

In addition to general University requirements, students seeking the Bachelor of Arts in Legal Studies must meet the requirements listed below. A grade of "C" is required for all courses listed as core courses.

Students may get credit for a maximum of 6 hours of Field Study / Internship / Directed Study. All PLA courses presume competency and experience with word processing, spreadsheets, databases, e-mail and Internet. Any course substitutions for specifically listed courses must be approved in advance, in writing by the Legal Studies Program Advisor.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 208)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 208)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 208)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 208)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 208)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 208)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

24

Total Hours

24

Legal Studies students planning to take the LSAT and seek admission to law school are encouraged to take courses that will strengthen their written and verbal communication skills as these are needed to be successful in law school.

Major

UWF Legal Studies Core - minimum "C" required in all ⁺

18

PLA 3020	Law and Society ⁺
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PLA 3703	The Legal System and Ethics ⁺	
PLA 3103	Legal Research and Writing ^{*,+}	
PLA 4155	Legal Advocacy ^{*,+}	
PLA 4263	Evidence ⁺	
PLA 4885	Constitutional Law for the Paralegal ⁺	
UWF Legal Studies Major Electives (choose 21 hours) Select any PLA 3/4000 level courses not taken as part of the core; some courses require a minimum GPA or prerequisites. Contact your advisor for additional information. ⁺		21
Total Hours		39

⁺ Courses included in the major GPA

* Students should complete at least one or two law-related courses before

attempting to take PLA 3103 Legal Research and Writing. Students must complete

PLA 3103 Legal Research and Writing before enrolling in PLA 4155 Legal Advocacy.

All Legal Studies majors must successfully complete PLA 4155 Legal Advocacy

notwithstanding any prior course work in legal research and writing.

Students can satisfy up to 6 hours of the Justice Studies Electives requirement with service learning, internship and/or directed study courses (the combination of these may not exceed 6 hours).

Major-Related

Supporting Electives from Related Programs (9 hours) Criminal Justice (CCJ, C.J., CJE, CJC) History (HIS, EUH, AMH) Philosophy (PHI, PHM) Political Science/Government (POS, POT, INR) Public Administration (PAD) Business Administration (MAN, INP, GEB, COM, SPC, ENC, ACG, FIN) 9

Suggested/Approved Supporting Elective Courses from Related Programs offered at UWF :

Ethics, Philosophy and Critical Thought:

PHH 3100	Greek Philosophy
PHH 3400	Modern Philosophy
PHI 3130	Modern Logic
PHI 3670	Ethics
PHM 3200	Social and Political Philosophy

Written and Verbal Interactions with Others

COM 4103	Leadership Communication
COM 4110	Business and Professional Communication
COM 4120	Organizational Communication
ENC 3240	Technical Writing
GEB 3213	Writing for Business: Theory and Practice
INP 3313	Organizational Behavior
MAN 3025	Management Fundamentals
MAN 3240	Behavior in Organizations
MAN 3301	Human Resources Management
SOP 3004	Social Psychology
SPC 3301	Interpersonal Communication
SPC 4710	Intercultural Communication
SOW 3350	Interviewing and Recording

Financial Information:

ACG 3082	Accounting for Non-Majors
GEB 3032	Business Foundations for Non-Business Majors

Law-Related:

AMH 4551	U. S. Constitutional and Legal History (to 1877)
AMH 4552	U. S. Constitutional and Legal History (Since 1877)
AMH 4575	Civil Rights
EUH 4503	English Constitutional and Legal History
INR 3503	Model United Nations
MMC 4201	The Constitution and the Press

POS 3608	Constitutional Law: Federalism and Separation of Powers	
POS 4602	The Founders' Constitution	
POS 3624	Constitutional Law: Individual Rights and Privileges	
POS 3625	First Amendment Freedoms	
POT 4204	American Political Thought	
POS 4673	Jurisprudence	
POT 4601	Modern Masters of Political Thought	
Total Hours		9

Upper-Division Electives

12

Minors

Pre-Law

The Legal Studies Pre-Law Minor is meant as a supplement to majors other than Legal Studies and is for those who want a minimal background to prepare for law school or who want an introduction to terminology and basic ideas and skills related to the law and the legal profession. In contrast, the Legal Studies major emphasizes legal career preparation. Students who are considering attending law school are strongly encouraged to complete PLA 3103 Legal Research and Writing for the elective in this minor. Students who take PLA 3103-Legal Research and Writing should successfully complete at least one or two law-related courses before attempting this course. Contact a Legal Studies advisor who will assist in choosing appropriate courses. A minimum of 9 sh of upper division courses must be completed at UWF. Legal Studies majors may not earn this minor.

PLA 2013	Survey of American Law	3
PLA 3020	Law and Society	3
Choose one:		3
PLA 4263	Evidence	
PLA 4885	Constitutional Law for the Paralegal	
Choose two:		6
3000/4000 level Legal Studies (PLA) courses (3-6 sh)		

Management

The B.S.B.A. in Management is an included program in the University's accreditation by AACSB International.

The Bachelor of Science in Business Administration (B.S.B.A.) degree with a major in Management is for people who aim for or hold positions of organizational leadership. Management encompasses a variety of leadership skills, and the management program builds administrative competence for careers in industrial, service, governmental, educational, and other settings. The orientation is toward effective utilization of resources and information and the direction of human affairs in a complex changing environment.

Program Requirements

In addition to general University requirements, students seeking the B.S.B.A. in Management must meet the requirements listed below. A minimum course grade of "C" is required in all College of Business prerequisites and courses.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 211)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 211)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 211)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 211)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 211)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 211)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Management majors should take the following courses to satisfy components of the General Education curriculum courses:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social Sciences		3
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	3-12
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Major

College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Management Specialization

COM 4110	Business and Professional Communication ⁺	3
MAN 3240	Behavior in Organizations ⁺	3
MAN 3301	Human Resources Management ⁺	3
MAN 3550	Introduction to Management Science ⁺	3
MAN 4750	The Future: Projecting, Planning and Managing ⁺	3
3000/4000 level advisor-approved Management (MAN) electives ^{+, +}		6
Total Hours		21

* May include ISM 3323 Information Security Management and/or HSA 4110 Health Care Policy and Administration

Major-Related

3000/4000 level advisor-approved College of Business elective ⁺	3	
3000/4000 level advisor-approved elective outside College of Business	3	
3000/4000 level advisor-approved Management elective or advisor-approved major -related elective ⁺	3	
Total Hours		9

+ Courses included in the major GPA

Minors

Management

The Minor in Management requires completion of the following courses with a grade of "C" or higher. At least 9 sh of the required upper division course work must be completed at UWF. Management majors may not earn this minor.

ACG 3082	Accounting for Non-Majors	3
or		
ACG 2021 & 2071	Principles of Financial Accounting and Principles of Managerial Accounting	
MAN 3025	Management Fundamentals	3
MAN 3240	Behavior in Organizations	3
3000/4000 level Management (MAN) courses [*]		6
Choose one of the following:		3
ECO 2013	Principles of Economics Macro	
ECO 3003	Principles of Economic Theory and Public Policy	
Total Hours		18

* May include HSA 4110 Health Care Policy and Administration

Certificates

Human Resources Management Certificate

Department: [Management/MIS](#)

Method of Instruction: Classroom

Semester Hours: 12

The certificate in Human Resources Management focuses on knowledge and skills needed to specialize in this complex and ever changing field. Students gain foundational knowledge in the areas of overview of HRM, legal and ethical context of HRM, employee rewards, compensation systems, legislation affecting compensation and benefits, job analysis, planning and forecasting staffing requirements, selection tools and methods, employee training and development programs, motivation, leadership, conflict resolution, and organizational dynamics. Employers of all sizes and structure are seeking individuals with a broad based skill set in this field. Students

who earn this certificate are expected to be able to differentiate themselves in today's competitive job market.

Program Requirements: In addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 2.5 or higher for the course required by the certificate. A minimum of three courses must be completed at UWF.

MAN 3301	Human Resources Management	3
MAN 3240	Behavior in Organizations	3
MAN 4330	Compensation and Benefits	3
MAN 4350	Staffing, Training, and Development	3
Total Hours		12

Management Development Certificate

Department: [Management](#)

Method of Instruction: [Classroom](#)

Semester Hours: 12

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 2.5 or higher for the course required by the certificate. A minimum of three courses must be completed at UWF.

Either initially, or after a few years in a professional situation, most people will be promoted to positions of management. For those who wish to earn additional credentials qualifying them to move into those management positions, while staying within their current degree program, the Department of Management and MIS has implemented the Management Development certificate program. The Management Development Certificate requires the successful completion of four courses (12 semester hours) in Management with a grade of at least a "C" (2.0) in each course. One course is required MAN 3025 - Management Fundamentals. The person pursuing the certificate selects the three additional courses with assistance from an academic advisor to round out his or her background in the most beneficial manner. For instance, those who wish more of a human resource orientation may elect to take Organizational Behavior, Human Resource Management, and Management of Diversity as the three courses. Those who wish more of a quantitative side might take Management Science, Operations Management, and Policy Analysis and Formulation Analysis. The three courses must be from the Department of Management and MIS and must be junior or senior-level courses.

Management majors or Management minors may not earn this undergraduate certificate.

MAN 3025	Management Fundamentals	3
Three additional Management (MAN) 3000/4000 level courses		9
Total Hours		12

Small Business Management/ Entrepreneurship Certificate

Department: [Management](#)

Method of Instruction: [Classroom](#)

Semester Hours: 12

For those who need to manage a small business or those who aspire to start their own business, an understanding of how to manage

a small business, develop a business plan, manage employees, and manage projects is crucial. This complex skill set is not only useful when one wants to manage a small business or start an entrepreneurial venture but also is an important selling point for job applicants. The Certificate in Small Business Management/ Entrepreneurship helps provide this background. In many cases, the courses within the Certificate program can be taken as a part of the requirements, or as electives, within the student's regular degree program. The certificate requires the successful completion of four Management courses listed below with a grade of at least a "C" (2.0) for each course. A minimum of three of the four courses must be completed at UWF. Participants must secure a combined grade point average of 2.5 or higher for the course required by the certificate. A minimum of three courses must be completed at the UWF.

This is an undergraduate certificate program.

MAN 3301	Human Resources Management	3
MAN 3583	Project Management	3
MAN 3802	Small Business/Family Business Management	3
MAN 4801	Business Plan Development for New Ventures	3
Total Hours		12

Management Information Systems

The B.S.B.A. in Management Information Systems is an included program in the University's accreditation by AACSB International.

The Bachelor of Science in Business Administration (B.S.B.A.) degree with a major in Management Information Systems (M.I.S.) emphasizes information as a resource to be managed, planned, and controlled in much the same way as other organizational resources. This program of study presents the concepts and methods of analyzing, designing, planning, and managing simple or complex information systems within an organization. In addition, M.I.S. emphasizes the managerial aspects of information systems by providing a base of business instruction common to the College of Business programs.

Program Requirements

In addition to general University requirements, students seeking the B.S.B.A. in Management Information Systems must meet the requirements listed below. A minimum course grade of "C" is required in all College of Business prerequisites and courses.

Students should consult their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 215)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 215)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 215)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 215)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 215)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 215)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Management Information Systems should take the following courses to satisfy components of the General Education curriculum courses:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social Sciences		3
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education Requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	3-12
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Major

College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Management Information Systems Specialization

ISM 3235	Business Development Environments ⁺	3
ISM 4113	Business Systems Design ⁺	3
ISM 4114	Business Information Systems Development ⁺	3
ISM 4400	Decision Support and Expert Systems ⁺	3
ISM 4483	e-Business Infrastructure Management ⁺	3
Choose one of the following:		3
ISM 4481	Knowledge Management for e-Business ⁺	
COP 4710	Database Systems ⁺	
Total Hours		18

Major-Related

MAN 3240	Behavior in Organizations ⁺	3
MAN 3550	Introduction to Management Science ⁺	3
3000/4000 level advisor approved major-related elective ⁺		6
Total Hours		12

⁺ Courses included in the major GPA

Minors

Business Intelligence

The minor in Business Intelligence requires completion of the following courses with a grade of "C" or higher. At least 9 sh must be completed at UWF College of Business.

ISM 3011	e-Business Systems Fundamentals	3
ISM 4481	Knowledge Management for e-Business	3
MAN 3550	Introduction to Management Science	3
ISM 3116	Business Intelligence Fundamentals	3
ISM 4117	Business Intelligence Applications	3
Total Hours		15

Management Information Systems

The Minor in Management Information Systems requires completion of the following courses with a grade of "C" or higher. At least 9 sh must be completed at UWF College of Business. Management Information Systems majors may not earn this minor.

ISM 3011	e-Business Systems Fundamentals	3
ISM 4300	Systems Planning, Design and Control	3
ISM 4400	Decision Support and Expert Systems	3
Choose one of the following:		3
ISM 4481	Knowledge Management for e-Business	
ISM 4483	e-Business Infrastructure Management	
Choose one of the following:		3
300/4000 level advisor-approved ISM elective		
ISM 3116	Business Intelligence Fundamentals	
ISM 4117	Business Intelligence Applications	
Total Hours		15

e-Business

Distinct from any of the functional areas that support technology and business, the Minor in e-Business is an interdisciplinary, undergraduate program consisting of:

- two foundation courses (6 sh)
- four electives (12 sh)

It is intended to provide a solid foundation for those interested in pursuing opportunities in businesses who have already joined the e-Business revolution, as well as in businesses that are attempting to define the appropriate role of e-Business in their organizations. The e-Business Minor is open to all students who meet the requirements to enroll in the first course in the e-Business Minor sequence. All courses must be completed with a grade of "C" or better. Students should choose electives carefully as some may have prerequisites.

CGS 2570	Personal Computer Applications	3
ISM 3011	e-Business Systems Fundamentals	3
Choose four of the following		12
CIS 4340	Web Server Technologies	
COP 2253	Programming Using Java	
COP 3813	Internet Programming	
ISM 3235	Business Development Environments	
ISM 4481	Knowledge Management for e-Business	
MAR 4721	Internet Marketing Principles	
MAR 4728	High Tech Product Marketing Strategy	
ISM 4483	e-Business Infrastructure Management	
Total Hours		18

Certificates

Business Intelligence

The Business Intelligence Certificate program has been designed to cover the managerial aspects of business intelligence related skills that are required to handle "big data" in the modern business world. The certificate requires completion of the following courses with a grade of "C" or higher. At least 9 sh must be completed at UWF College of Business. Students pursuing a minor in Business Intelligence may not earn this certificate. All prerequisites must be met in order to enroll in these courses. Participants must secure a combined grade point average of 2.5 or higher for the course required by the certificate.

ISM 3011	e-Business Systems Fundamentals	3
ISM 3116	Business Intelligence Fundamentals	3
ISM 4481	Knowledge Management for e-Business	3
MAN 3550	Introduction to Management Science	3
Total Hours		12

Information Security Management

Department: [Management/MIS](#)

Method of Instruction: [Classroom/Online](#)

Semester Hours: **12**

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 2.5 or higher for the course required by the certificate. A minimum of three courses must be completed at UWF.

This certificate program is designed to address the non-technical aspects of information security. These include policy development and management, compliance management, security education training and awareness (SETA) programs, and the use of encryption technologies. The program will also address the personnel and risk analysis aspects of information security.

ISM 3011	e-Business Systems Fundamentals	3
ISM 3323	Information Security Management	3
ISM 4483	e-Business Infrastructure Management	3

MAN 3301	Human Resources Management	3
Total Hours		12

Marine Biology

The University of West Florida is one of only a few institutions in the United States which offers a Bachelor of Science in Marine Biology. The program is provided through the Department of Biology. The curriculum includes a series of seven core courses fundamental to all areas of biology. Elective courses emphasize theoretical and practical aspects of aquatic/marine biology. Wetlands and estuarine marshes of the main campus, as well as the nearby Santa Rosa Island campus and the Gulf of Mexico, provide living specimens for study and serve as laboratories supporting elective courses. Graduates may seek careers in marine biology, fisheries management, aquaculture, pollution biology, and marine toxicology, and find employment in local, state, and federal departments of environmental regulation and education, as well as the private sector. Graduates are also well prepared to pursue advanced degrees. Prospective students need to be aware that some biology lab courses involve the use of live animals; students may wish to seek details from course instructors before enrolling.

Program Requirements

In addition to general University requirements, students seeking the B.S. in Marine Biology must meet the requirements listed below.

A grade of "C" or better is required in each of the seven biology core courses.

Consult with your academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 219)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 219)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 219)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 219)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 219)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

- * May be taken with or without lab.
- ** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.
- *** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives
(p. 219)
Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Marine Biology majors should satisfy the mathematics (6 sh) and natural science (7 sh) components of General Education with course work taken from the common prerequisites shown below.

Marine Biology majors should take ANT 2000 Introduction to Anthropology to satisfy the social science/behavioral perspectives component of General Education.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Graduation requirements for the B.S. degree in Marine Biology include the successful completion of the following science/mathematics prerequisites:

- Biology I and Biology II
- General Chemistry I and II
- Organic Chemistry I and General Physics I
- Organic Chemistry II or General Physics II
- Calculus I and Statistics

Since it will be difficult to incorporate all prerequisites into the 60 sh Lower Division Curriculum, students are advised to complete the following common prerequisites.

BSC 2010+L	Biology I (+Lab)	4
BSC 2011+L	Biology II (+Lab)	4
CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
STA 2023	Elements of Statistics *	3
Choose one of the following:		8
Option 1		
CHM 2210+L	Organic Chemistry I (+Lab)	
CHM 2211+L	Organic Chemistry II (+Lab)	
Option 2		
PHY 2053+L	General Physics I (+Lab) *	
PHY 2054+L	General Physics II (+Lab) *	
Total Hours		31

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Minimum grade of "C" or better required in all courses in the program to include all Core, Specialization, Subcore, Major-Related and Common Prerequisites.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.	0-6
Total Hours	0-6

Major

Marine Biology Core:	21
BSC 2844	Biology Skills
BCH 3033+L	Biochemistry I (+Lab)
MCB 3020+L	Microbiology (+Lab)
PCB 3063+L	Genetics (+Lab)
PCB 4043+L	Ecology (+Lab)
PCB 4673	Principles of Evolution
PCB 4922	Biology Seminar
Specialization	19
OCE 3007	Concepts of Oceanography and Marine Biology
ZOO 4254+L	Marine Invertebrate Zoology (+Lab)
ZOO 4304+L	Marine Vertebrate Zoology (+Lab)
BOT 4404+L	Aquatic Botany (+Lab)
PCB 4723+L	Comparative Animal Physiology (+Lab)
Marine Biology Sub-core	
3000/4000 level Marine biology electives	13
Choose from the following:	
PCB 3253+L	Developmental Biology (+Lab)
ZOO 3556	Biology of Coral Reefs
PCB 4048	Estuarine Ecology

PCB 4048L	Estuarine Ecology Laboratory
OCB 4104	Marine Field Ecology
BSC 4303	Biogeography
PCB 4364	Marine Ecological Physiology
PCB 4364L	Marine Ecological Physiology Laboratory
PCB 4442	Wetlands Ecology
PCB 4442L	Wetlands Ecology Lab
ZOO 4454	Elasmobranch Biology
PCB 4524L	Molecular Biology Lab
PCB 4524	Molecular Biology
ZOO 4457	Fish Physiology
PCB 4482	Quantitative Ecology
ZOO 4485	Marine Mammalogy
ZOO 4513	Animal Behavior
ZOO 4880C	Fisheries Biology
PCB 5344	Tropical Ecology/Op Wall
Biology directed studies (2 hours maximum)	

Total Hours 53

Major-Related

STA 4173	Biostatistics	3
Students must take one of the following that was not completed as part of the		4
Common Prerequisites in the lower division: *		
CHM 2210+L	Organic Chemistry I (+Lab)	
PHY 2053+L	General Physics I (+Lab)	

Total Hours 7

* Students must take 8 sh that were not completed as part of the Common Prerequisites in the lower division

Maritime Studies

Program Contact: [J.R. Bratten](#) (Dept. of Anthropology)

The Maritime Studies Program is designed to familiarize students with the dynamic cultural and natural resources of the maritime environment. Students gain the necessary knowledge and expertise to enable them to participate and contribute to our growing understanding and management of the maritime environment.

Maritime Studies prepares students for careers in the diverse and exciting maritime world. This degree provides a broad understanding of the diversified field by integrating maritime themes, transferable skills, and a knowledge base to enter a variety of maritime-related careers. The maritime industry is a major global employer with thousands of opportunities in many areas. The marine environment covers 71% of the earth and continued technology advancement has increased pressure on its resources. Understanding and managing maritime resources is becoming increasingly important, requiring a wide range of theoretical knowledge and practical skills that this Maritime Studies degree will provide.

The hallmark of the Maritime Studies Program is its flexibility because it allows students to tailor their degree program to their individual interests. It requires only a few specific core courses to provide an overview of the main areas in Maritime Studies. Students complete their degree programs with elective courses from a wide range of disciplines such as Anthropology/Archaeology, Marine Biology, Environmental Studies, History, Art History, Literature, Law, Political Science, and Leisure Studies.

Academic study is only part of the essential training needed for students of Maritime Studies. They also must have a structured field experience in which methods of sampling, recording, and other practical aspects of professional work in the field environment are learned.

Program Requirements

In addition to general University requirements, students seeking the B.A. degree in Maritime Studies must meet the requirements listed below.

A grade of "C" or better is required in all core courses and courses in the minor.

Students must have a structured field experience in which methods of sampling, recording, and other practical aspects of professional work in the field environment are learned. Field experiences in shipwreck archaeology and overseas history are available. Other structured field experiences can be designed.

In order to enhance the employability and/or acceptance into a graduate program of Maritime Studies, students must also complete a minor in their primary interest field. The fields of choice for minors are:

- Anthropology
- Biology
- Economic Policy
- Environmental Studies
- Geography
- History
- Hospitality
- Recreation; and Resort Management
- International Studies

- Political Science
- Pre-Law
- Public Administration
- Spanish
- Earning the certificate in GIS

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 222)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 222)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 222)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 222)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 222)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 222)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Maritime Studies majors should take BSC 2311 Introduction to Oceanography and Marine Biology/BSC 2311L Introduction to Oceanography and Marine Biology Laboratory for the Natural Sciences lecture and lab requirement. Students should also take EUH 1000 Western Perspectives I or EUH 1001 Western Perspectives II to meet the historical perspective component.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

ANT 1138	Introduction to Maritime Studies	1
ANT 2000	Introduction to Anthropology *	3
BSC 2311+L	Introduction to Oceanography and Marine Biology (+Lab) *	4
EUH 1000	Western Perspectives I *	3
EUH 1001	Western Perspectives II *	3
INR 2002	International Politics *	3
STA 2023	Elements of Statistics *	3
Choose one of the following:		4
GEO 1200+L	Physical Geography (+Lab) *	
GLY 2010+L	Physical Geology (+Lab)	
Total Hours		24

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Students should take the following courses:

ANT 2511+L	Biological Anthropology (+Lab)	4
BSC 1005+L	General Biology for Non-Majors (+Lab)	3
BOT 2010+L	General Botany (+Lab)	4
CHM 1032+L	Fundamentals of General Chemistry (+Lab)	4
or CHM 2045 & 2045L	General Chemistry I and General Chemistry I Laboratory	
Total Hours		15

Major

ANT 3137	Shipwreck Archaeology *	3
ECO 3003	Principles of Economic Theory and Public Policy (*) *	3
HIS 4284	Maritime History *	3
INR 4403	International Law *	3
EVR 4023	Coastal and Marine Environments *	3
Field Experience or Internship		3-9
ANT 4121	Combined Archaeological Field Methods *	
ANT 4835	Maritime Archaeological Field Methods *	
EVR 4941	Practicum in Environmental Studies *	
GIS 4071	Methods and Techniques in Environmental Resource Management and Planning *	
HIS 4955	Overseas and Field Study in History *	
___ 4940	Internship in minor field *	
Total Hours		18-24

Major-Related

3000/4000 level advisor-approved electives *	36
Total Hours	36

Students may select electives from any field, although the following fields are preferred:

- Anthropology/Archaeology
- Art History
- Biology
- Economics

- Environmental Studies
- Foreign Language
- Geography
- History
- Political Science/International Studies
- Leisure
- Public Policy
- Public Administration

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours 0-6

Minors

Maritime Studies

The Maritime Studies Minor is a supplement to majors other than Maritime Studies and is for those who want a minimal background in the subject to prepare for employment in fields related to the subject including, but not limited to:

- Anthropology
- Biology
- Environmental Studies
- Government
- History

A grade of "C" or better is required in all courses used to satisfy the minor.

ANT 3137	Shipwreck Archaeology	3
ECO 3003	Principles of Economic Theory and Public Policy *	3
HIS 4284	Maritime History	3
INR 4403	International Law	3
EVR 4023	Coastal and Marine Environments	3
Total Hours		15

* Or both ECO 2013 Principles of Economics Macro and ECO 2023 Principles of Economics Micro - 6 sh

Marketing

The B.S.B.A. in Marketing is an included program in the University's accreditation by AACSB International.

In today's hyper-competitive business environment, it is becoming very clear that for any organization to prosper, it must adopt a market orientation as its guiding management philosophy. Being market oriented simply means that an organization considers the needs and wants of its customers as crucial input in every decision that it makes. To successfully accomplish this goal, the organization must develop and nurture close relationships with its customers. No matter which specialization you choose to pursue, a career in Marketing is at its heart a career in creating and managing these relationships. Marketers are literally the interface between the organization and its customers. The Bachelor of Science in Business Administration (B.S.B.A.) degree prepares students for a variety of careers in the marketing profession. Historically, a large portion of top-level managers in major corporations are promoted from the marketing area. Of course, all successful entrepreneurs must possess highly developed marketing skills. Marketing program students choose one of four specializations.

Comprehensive Marketing Specialization

This specialization prepares students for a broad range of positions in marketing. Students are required to complete five marketing electives from among the courses offered at the 3000 and 4000 levels.

Global Marketing Specialization

This specialization focuses on the issues of marketing in an increasingly global market. Students are required to spend at least one semester at one of UWF's partner universities abroad studying marketing. This cultural, as well as educational experience, prepares students especially well for positions dealing with the cross-cultural nature of marketing in the global marketplace. Students must complete a specific sequence of courses in this specialization, designed in conjunction with their advisor, at the partner university. To participate in this required part of the program, students must have a minimum 2.50 cumulative GPA. It is recommended, but not required, that during their lower division studies students complete two additional courses in a foreign language beyond the University's foreign language admission requirement.

Sales Management Specialization

This specialization focuses on issues involved in negotiation, professional selling, and sales management in free market economies. It emphasizes building customer relationships, managing sales staff, and analysis of marketplace opportunities.

Program Requirements

In addition to general University requirements, students seeking the B.S.B.A. in Marketing must meet the requirements listed below. A minimum course grade of "C" is required in all College of Business prerequisites, major, and major-related courses.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements.

With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 225)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 225)

Choose one course from Group A and one Additional course from either Group A or Group B		6
Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 225)

Choose one course from Group A and one additional course from either Group A or Group B		6
Group A		
AMH 2020	United States since 1877	
ANT 2000	Introduction to Anthropology	
ECO 2013	Principles of Economics Macro	
POS 2041	American Politics	
PSY 2012	General Psychology	
SYG 2000	Introduction to Sociology	
Group B		
AMH 2010	United States to 1877	
ANT 2400	Current Cultural Issues	
ANT 2100	Introduction to Archaeology	
CCJ 2002	Survey of Crime and Justice	
CPO 2002	Comparative Politics	
DEP 2004	Human Development Across the Lifespan	
EUH 1000	Western Perspectives I	
EUH 1001	Western Perspectives II	
FIN 2104	Personal Financial Planning	
GEA 2000	Nations and Regions of the World	
GEB 1011	Introduction to Business	
IDH 1041	Honors Core 2	
INR 2002	International Politics	
MMC 2000	Principles of Mass Communication	
PLA 2013	Survey of American Law	
SOW 2192	Understanding Relationships in the 21st Century	
SYG 2010	Current Social Problems	

Humanities (p. 225)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 225)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 225)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Marketing majors should take the following courses to satisfy components of the General Education curriculum courses:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics:		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social sciences		
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		3-12
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College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Comprehensive Marketing Specialization

Major

Comprehensive Marketing Specialization

MAR 3503	Consumer Behavior +	3
MAR 4613	Marketing Research +	3
MAR 4803	Marketing Strategy +	3
Five 3000/4000 level Marketing (MAR) electives +		15
Total Hours		24

Major-Related

3000/4000 level advisor-approved courses +		6
Total Hours		6

+ Courses included in the major GPA

Global Marketing Specialization

Major

Global Marketing Specialization

MAR 3503	Consumer Behavior +	3
MAR 4156	Seminar in International Marketing +	3
MAR 4613	Marketing Research +	3
MAR 4803	Marketing Strategy +	3
Three advisor-approved marketing courses taken at a UWF partner University abroad +		9
3000/4000 level Marketing (MAR) elective +		3
Total Hours		24

Major-Related

3000/4000 level advisor-approved courses +		6
Total Hours		6

+ Courses included in the major GPA

Sales Management Specialization

Major

Sales Management Specialization

MAR 3202	Supply Chain Logistics Management +	3
MAR 3370	Information Sources for Business Decisions +	3
MAR 3503	Consumer Behavior +	3
MAR 4403	Sales Management +	3
MAR 4412	Professional Selling Methods +	3
MAR 4613	Marketing Research +	3
MAR 4803	Marketing Strategy +	3
3000/4000 level Marketing elective +		3
Total Hours		24

Major Related

3000/4000 level advisor-approved electives +		6
Total Hours		6

+ Courses included in the major GPA

Minors

All courses in minors must be completed with a "C" or better.

Business

The Minor in Business is designed to provide the non-business major with professional skills necessary for positions in business and industry. The curriculum is conceived as a broad introduction to several areas of business. Business majors may not earn this minor.

The Business Minor requires a minimum of 18 sh of course work. At least 12 sh must be upper-level courses, and 9 sh of those must be completed at UWF. All courses must be completed with a grade of "C" or higher. Students should complete MAC 1105 College Algebra, STA 2023 Elements of Statistics, and any computer literacy course before enrolling in required courses.

If a student completes equivalent work at the lower division level, the student must select upper-level business electives in the area of interest to complete the required 12 sh of upper-level work.

ACG 3082	Accounting for Non-Majors	3
or ACG 2021 & ACG 2071	Principles of Financial Accounting and Principles of Managerial Accounting	
ECO 3003	Principles of Economic Theory and Public Policy	3
or ECO 2013 & ECO 2023	Principles of Economics Macro and Principles of Economics Micro	
FIN 3403	Managerial Finance	3
MAN 3025	Management Fundamentals	3
MAR 3023	Marketing Fundamentals	3
3000/4000 level Business elective		3
Total Hours		18

Marketing

The Minor in Marketing requires completion of the following courses of which 9 sh of upper division course work must be taken at UWF. Marketing majors may not earn this minor.

MAR 3023	Marketing Fundamentals	3
MAR 4412	Professional Selling Methods	3
3000/4000 level Marketing (MAR) Electives		6
Choose one of the following:		3
ACG 2021	Principles of Financial Accounting	
ACG 3082	Accounting for Non-Majors	
Choose one of the following:		3
ECO 2013	Principles of Economics Macro	
ECO 3003	Principles of Economic Theory and Public Policy	
Total Hours		18

Marketing Applications

The Minor in Marketing Applications is designed for and only available to non-business majors. Marketing majors may not earn this minor.

MAR 3023	Marketing Fundamentals	3
Choose four of the following:		12
MAR 3370	Information Sources for Business Decisions	
MAR 3503	Consumer Behavior	
MAR 4231	Retail Strategy	
MAR 4324	Integrated Marketing Communications: Principles	
MAR 4403	Sales Management	
MAR 4412	Professional Selling Methods	
MAR 4721	Internet Marketing Principles	
MAR 4841	Services Marketing	
3000/4000 (Marketing advisor approved)		
Total Hours		15

Certificates

Marketing Technology Certificate

Department: [Marketing](#)

Semester Hours: 12

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 2.5 or higher for the courses required by the certificate.

This certificate is designed to enable students to earn additional credentials within the requirements of their current degree programs. The Certificate in Marketing Technology was developed in answer to the high demand of persons skilled in the basic techniques of e-commerce.

MAR 3023	Marketing Fundamentals	3
MAR 4721	Internet Marketing Principles	3
MAR 4728	High Tech Product Marketing Strategy	3
Choose one of the following:		3
MAR 3202	Supply Chain Logistics Management	
MAR 3370	Information Sources for Business Decisions	
MAR 3860	Customer Relationship Management	
Total Hours		12

Sales Management Certificate

Department: [Marketing](#)

Semester Hours: 12

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 2.5 or higher for the course required by the certificate.

MAR 3023	Marketing Fundamentals	3
MAR 4403	Sales Management	3
MAR 4412	Professional Selling Methods	3
One marketing elective		3
Total Hours		12

Mathematics

The B.S. in Mathematics prepares students for graduate study; teaching; service in science, government and industry; and supporting roles in the social, biological, and physical sciences. This program emphasizes mathematics and statistics and provides students with considerable flexibility in choosing electives outside the major. It is recommended that students seek the advice of faculty regarding career opportunities and choice of a suitable minor.

Program Requirements

In addition to University's general requirements, students seeking the B.S. in Mathematics must meet the requirements listed below.

Students should consult with their academic advisor for courses which may satisfy both the general education requirements and prerequisites. A grade of C- or better is required for all Major courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 229)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 229)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 229)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 229)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 229)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **
Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 229)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

COP XXXX	Computer Language elective	3
MAC 2311	Analytic Geometry and Calculus I ^{+,*}	4
MAC 2312	Analytic Geometry and Calculus II ^{+,*}	4
MAC 2313	Analytic Geometry and Calculus III ^{+,*}	4
MAP 2302	Differential Equations	3

One lab-based science course (BSC, CHM, PHY, or GLY) ⁺	4
Total Hours	22

⁺ Indicates common prerequisites which can be used to satisfy General Studies requirements.

^{*} Requires a grade of C- or better

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	1
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Major

MAS 3105	Linear Algebra ⁺	3
STA 3162C	Applied Statistics ⁺	4
MHF 3202	Set Theory and Mathematical Logic ⁺	3
MAD 4401	Numerical Analysis ⁺	3
STA 4321	Introduction to Mathematical Statistics I ⁺	3
MAA 4211	Advanced Calculus I ⁺	3
MAS 4301	Abstract Algebra ⁺	3
MAT 4500	Undergraduate Proseminar in Mathematics/Statistics ⁺	1
3000/4000 level advisor-approved mathematics or statistics electives		9
Total Hours		32

⁺ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 sh in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	28
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Minors

Mathematics

A Minor in Mathematics requires completion of the calculus sequence in addition to the completion of 15 sh approved by the Department of Mathematics and Statistics in courses beyond the level of MAC 2313 Analytic Geometry and Calculus III. A list of approved courses may be obtained from the department. A grade of C- or better is required for each of these courses, including the calculus sequence. Mathematics majors may not earn this minor.

Microsoft Certified Systems Administration Certificate

Department: Computer Science

Method of Instruction: Online or Classroom

Semester Hours: 12

Tuition and fees: \$4500.00

Microsoft Systems Administration is being taught in an effort to meet the growing demand for quality professionals in the information technology industry. The University of West Florida's IT Academy provides high demand certification opportunities. The coursework aids career changers as well as existing IT professionals looking to advance their careers. Professionals recognize Microsoft IT credentials among the top certifications requested by public and private employers. Systems administrators manage and maintain complex computing environments of medium to large sized organizations.

CGS 3284	Network Management and Design	12
Total Hours		12

Music

Semester Hours required for degree: 120

The B.M. in Music is designed to prepare students for careers in the field of music. Permission to major or minor in music is granted by the department and an audition is required.

The Department of Music has held accreditation by the National Association of Schools of Music since 1971. All music courses have been approved by the National Association of Schools of Music.

Contact the Department of Music for details about scholarships offered through the department.

Program Requirements

In addition to the University's general requirements, students seeking the B.M. in Music Performance must meet the requirements listed below.

To be admitted into the program, students must audition for the faculty at least one semester prior to enrollment into the program. Entering freshmen are advised to contact the Department of Music in the fall semester of their senior year in high school in order to secure information regarding scholarship auditions and general information about the degree plan of their choice. Scholarship auditions are generally scheduled in February and April of each academic year.

Transfer students are advised to contact the Department of Music one semester prior to their anticipated date of enrollment in order to ensure a smooth transition into the music curriculum at UWF. Transcripts will be evaluated by the Program Director prior to enrollment into the program. Transfer students must take diagnostic exams in Theory, Aural Skills and Piano the results of which will help for placement in the respective areas.

In addition to the course requirements, the Department of Music requires the following of its majors:

- All students must be enrolled in applied lessons in every semester (excluding Summer) until graduation.
- Every student enrolled in applied lessons must participate each semester in a major ensemble sponsored by the department (Symphonic Band, Chorus, Jazz Band or Orchestra). Exceptions will be made only if students are completing a teaching internship.
- All majors must attend the weekly Student Recital Hour and perform as recommended by their applied professor. Majors are required to perform at least once during the semester. Student Recital Hour is a component of applied lessons (not a separate class).
- All majors must attend a minimum number of concerts or recitals each semester in residence; the minimum number is determined by the number of concerts or recitals presented during the semester. The concerts or recitals may include faculty recitals, student recitals, symphony concerts, music hall artists series concerts, and any other program of "classical" nature approved by the faculty.
- All students using the practice facilities must be on an access list generated by the Music Department Office each semester.
- All students must earn a minimum grade of "C-" in all major courses or the course in question will need to be retaken.
- All students must pass the UWF Piano Proficiency Examination in the same semester that they complete Sophomore Theory II. If

piano is the principal instrument, the UWF Piano Proficiency is not required.

- All students must pass MUT 2117 (Sophomore Theory II) or the UWF Music Theory Placement Examination, and the UWF Piano Proficiency prior to enrolling in upper division music theory courses--Structure and Style, Instrumentation, or Counterpoint.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 232)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 232)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 232)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 232)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 232)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 232)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Secondary Piano Proficiency is satisfied by examination; a total of 6 sh is required. The remaining 2-4 sh are subtracted from Upper Division Requirements.

MUN XXXX	Ensemble (1 sh for 4 semesters)	4
MUT 1111	Freshman Theory	3
MUT 1112	Freshman Theory II	3
MUT 1271	Freshman Theory Lab	1
MUT 1272	Freshman Theory II Lab	1

MUT 2116	Sophomore Theory	3
MUT 2117	Sophomore Theory II	3
MUT 2276	Sophomore Theory I Lab	1
MUT 2277	Sophomore Theory II Lab	1
MVX 131X	Freshman Applied Music *	6
MVX 232X	Sophomore Applied Music *	6
Total Hours		32

* Only 2 sh required by statewide common prerequisites.

Major

Music Performance prepares students for further studies at the graduate level in preparation for a career in concert performance.

Performance Core: 15

MUG 2101	Conducting	
MUH 3211	History of Western Music I: End of Ancient World Through 17th Century +	
MUH 3212	History of Western Music II: 18th through 20th Centuries +	
MUT 3401	Techniques of Counterpoint +	
MUT 3611	Musical Structure and Style +	
MUT 4311	Instrumentation +	
MVx 4xxx Senior Recital		

Performance Specialization: 37

MUN xxxx Ensemble ¹	
MUN 3xxx Chamber Music ^{2, +}	
MVx 3970 Junior Recital +	
MVx 3xxx Junior Applied Music ^{3, +}	
MVx 4xxx Senior Applied Music ^{3, +}	
3000/4000 advisor-approved Music Electives +	
Lower division applied music hours not required by state common prerequisites	
Choose one of the following (appropriate for primary instrument):	
MUE 4411	Special Methods/Choral Techniques +
MUE 4493	Special Methods/Instrumental Techniques +
Choose one of the following (appropriate for primary instrument):	
MUL 3503	Symphonic and String Literature +
MUL 3551	Band and Wind Literature +
MUL 3602	Vocal Literature +
MUL 3643	Choral Literature +

Total Hours 52

¹ 1 sh for 4 semesters

² 1 sh for 2 semesters

³ 3 sh for 2 semesters

+ Courses included in the major GPA

Minors

Music

Students wishing to obtain a Minor in Music should meet with the Program Director before submitting the minor change request. 12 sh of lower division courses and 12 sh of upper division courses outlined below must be completed. At least 9 sh of the upper division course work must be completed at UWF. Music majors may not earn this minor.

MUN 3xxx Ensemble ¹		4
MUT 1111	Freshman Theory	3
MUT 1271	Freshman Theory Lab	1
MUT 1112	Freshman Theory II	3
MUT 1272	Freshman Theory II Lab	1
MVx xxxx Applied Lessons ²		4
3000/4000 level Music electives ³		5
Choose one of the following:		3
MUH 3211	History of Western Music I: End of Ancient World Through 17th Century	
MUH 3212	History of Western Music II: 18th through 20th Centuries	
Total Hours		24

¹ 1 sh each taken for 4 semesters

² 2 sh each taken for 2 semesters

³ May include applied lessons, ensembles, or other courses offered at the 3000/4000 level.

Music Education

Semester Hours required for degree: 134

The B.M.E. is designed for students seeking careers in the field of music education and prepares graduates to teach music in public and private schools. The Department of Music has held accreditation by the National Association of Schools of Music (NASM) since 1971. All music courses and specializations have been approved by the National Association of Schools of Music.

The Music Education Bachelor's degree is an FLDOE approved program which is accredited by the National Association of Schools of Music (NASM) and a part of the UWF Professional Education Unit accredited by the Council for the Accreditation of Educator Preparation (CAEP).

Permission to major in music is required through audition and application to the department. In addition to successful completion of all coursework, students must pass the required Florida Teaching Certification Exams including General Knowledge, Professional Education and the Music Subject Area.

Contact the Department of Music for details about scholarships offered through the department.

Program Requirements

In addition to the University's general requirements, students seeking the B.M.E. must meet the requirements listed below.

To be admitted into the program, students must audition for the faculty at least one semester prior to enrollment into the program. Entering freshmen are advised to contact the Department of Music in the fall semester of their senior year in high school in order to secure information regarding scholarship auditions and general information about the degree plan of their choice. Scholarship auditions are generally scheduled in February and April of each academic year.

Transfer students are advised to contact the Department of Music one semester prior to their anticipated date of enrollment in order to ensure a smooth transition into the music curriculum at UWF. Transcripts will be evaluated by the Program Director prior to enrollment into the program.

In addition to the course requirements, the Department of Music requires the following of its majors:

- All students must be enrolled in applied lessons in every semester (excluding Summer) until graduation. Exception: When enrolled in teaching internship, students are exempt from applied lessons.
- Every student enrolled in applied lessons must participate each semester in a major ensemble sponsored by the department (Symphonic Band, Chorus, Jazz Band or Orchestra). Exceptions will be made only if students are completing a teaching internship.
- All majors must attend the weekly Student Recital Hour and perform as recommended by their applied professor. Majors are required to perform at least once during the semester. Student Recital Hour is a component of applied lessons (not a separate class).
- All majors must attend a minimum number of concerts or recitals each semester in residence; the minimum number is determined by the number of concerts or recitals presented during the semester. The concerts or recitals may include faculty recitals, student recitals, symphony concerts, Music Hall Artists Series

concerts, and any other program of "classical" nature approved by the faculty.

- All students using the practice facilities must be on an access list generated by the Music Department Office each semester.
- In addition to successful completion of coursework, the student must pass the three Florida Teaching Certification Exams (FTCE - General Knowledge, Subject Matter and Professional Area) to be eligible for a FLDOE letter of eligibility for certification in Florida. **The General Knowledge exam must be completed prior to student teaching. The Subject Matter and Professional Area exams must be completed before graduation.**
- All Students must earn a minimum Major GPA of 2.5 in order to graduate.
- All students must earn a minimum grade of "C-" in all major courses or the course(s) in question will need to be retaken.
- All students must pass the UWF Piano Proficiency Examination in the same semester that they complete Sophomore Theory II. If piano is the principal instrument, the student is not required to take the UWF Piano Proficiency Examination.
- All students must pass MUT 2117 (Sophomore Theory II) or the UWF Music Theory Placement Examination, and the UWF Piano Proficiency prior to enrolling in upper division music theory courses--Structure and Style, Instrumentation, or Counterpoint.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 235)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 235)

Choose one course from Group A and one Additional course from either Group A or Group B

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 235)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 235)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 235)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 235)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Secondary Piano Proficiency is satisfied by examination; the B.M.E. requires 4 sh. The remaining 2-4 sh are subtracted from Upper Division Requirements.

EDF 1005	Introduction to Education	3
EDF 2085	Teaching Diverse Populations	3
EME 2040	Introduction to Educational Technology	3
MUN xxxx Ensemble *		4

MUT 1111	Freshman Theory	3
MUT 1112	Freshman Theory II	3
MUT 1271	Freshman Theory Lab	1
MUT 1272	Freshman Theory II Lab	1
MUT 2116	Sophomore Theory	3
MUT 2117	Sophomore Theory II	3
MUT 2276	Sophomore Theory I Lab	1
MUT 2277	Sophomore Theory II Lab	1
MVx 131x	Freshman Applied Music ⁺	2-4
MVx 232x	Sophomore Applied Music ⁺	2-4
Total Hours		33-37

* 1 sh for 4 semesters

+ Only 2 sh required by statewide common prerequisites.

Major

Music Performance Core: 14

MUG 2101	Conducting
MUH 3211	History of Western Music I: End of Ancient World Through 17th Century ⁺
MUH 3212	History of Western Music II: 18th through 20th Centuries ⁺
MUT 3401	Techniques of Counterpoint ⁺
MUT 3611	Musical Structure and Style ⁺
MUT 4311	Instrumentation ⁺

Music Teaching Core: 35

MUE 2040	Introduction to Music Teaching
MUE 4411	Special Methods/Choral Techniques ⁺
MUE 4493	Special Methods/Instrumental Techniques ⁺
MUE 4940	Music Education Internship ⁺
MVx 3xxx	Junior Applied Music [*]
MUN xxxx	Ensemble ^{**}
Choose one of the following (appropriate to primary area of interest):	
MUE 3311	Methods for the Elementary School Music Teacher ⁺
MUE 4330	Music in the Middle and Secondary Schools ⁺
Choose one of the following (appropriate to primary instrument):	
MUL 3602	Vocal Literature ⁺
MUL 3551	Band and Wind Literature ⁺
MUL 3503	Symphonic and String Literature ⁺
MUL 3643	Choral Literature ⁺
Choose from the following 10 sh (appropriate to instruments):	
MUE 3312	Kodaly Method ⁺
MUE 4343	String Methods and Materials ⁺
MUE 4451	Woodwind Instrument Methods and Materials ⁺
MUE 4465	Brass Instrument Methods and Materials ⁺
MUE 4475	Percussion Methods and Materials ⁺
MVV 4640	Vocal Pedagogy ⁺
MUS 2241	Diction for Singers I: Italian
MUS 3253	Diction for Singers II: French/German ⁺
MVK 4641	Piano Pedagogy ⁺
MVK 4932	Piano Interpretation ⁺

Education Core: 12

EDF 3234	Applied Foundations of Education
EDG 3323	General Methods of K-12 Reading Instruction
TSL 4080	ESOL Principles and Practices

Choose one from the following:

EDE 4302	Instruction, Management, and Assessment-Elementary
EDM 4310	Instruction, Management, and Assessment- Middle
ESE 4322	Instruction, Management, and Assessment: Secondary Education

Total Hours 61

* 2 sh for 2 semesters

** 1 sh for 2 semesters

+ Courses included in the major GPA

Nursing

The B.S.N. prepares students to become clinical generalists who are leaders, managers, and life-long learners who integrate research findings into their nursing practice. The nursing graduate of the UWF program will be capable of using the nursing process with clients of all ages, with diverse backgrounds in a variety of health care settings. The program refines clinical skills and stimulates student awareness of research applications, facilitates the practice of active inquiry, fosters the ability to think and respond critically, and promotes the desire for advanced study. This program provides a service to the health care community by increasing the number of nurses who practice professional nursing. The program also serves the population's health needs by providing quality nursing care.

This is a limited access program and acceptance to the University does not constitute admission to the upper division nursing program. A separate application must be made to the department.

Admission Requirements

In addition to the University's general admission requirements as described in the Undergraduate Admissions section of the catalog, students seeking the B.S.N. must meet the following additional requirements at the time of application:

- Minimum overall GPA 3.0 on 4.0 scale
- Minimum score of 73% on TEAS entrance exam
- On track to complete all General Education requirements including foreign language prior to enrollment in major coursework
- Completion of all Nursing Common pre-requisites **with a grade of "C" or better prior to nursing application deadline date of March 1st**
- Documentation of required Nursing Program immunizations

Upon admission the B.S.N. student will receive information concerning current UWF Nursing requirements for enrollment. These include, but may not be limited to, student health physical examination; hospital required immunizations; Level 2 criminal background check; VECHS fingerprinting; AHA BCLS certification; and drug screen.

Degree Requirements

Students earning a B.S.N. must complete the General Education, Foreign Language, and Nursing Common Pre-requisites prior to entry into the Nursing Program. **Please note: nursing common pre-requisites must be completed prior to nursing application deadline date of March 1st**

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 238)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 238)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 238)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 238)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 238)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 238)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

BSN majors should take MAC 1105 College Algebra, **or** MGF 1106 Mathematics for Liberal Arts I, **and** STA 2023 Elements of Statistics to satisfy the mathematics component, SYG 2000 Introduction to Sociology to satisfy the socio-political perspectives, DEP 2004 Human Development Across the Lifespan to meet the behavioral perspective, and the science courses identified in the common prerequisites to meet the General Education science requirements.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

NOTE: Nursing common prerequisites must be completed prior to departmental application deadline date of March 1st with a grade of "C" or better. Grades under a pass/fail (P/F) option will not be accepted for the nursing common pre-requisites.

BSC 1085+L	Anatomy and Physiology I (+Lab) ⁺	4
BSC 1086+L	Anatomy and Physiology II (+Lab) ⁺	4
DEP 2004	Human Development Across the Lifespan ⁺	3
HSC 2577	Principles of Nutrition	3
MCB 1000+L	Fundamentals of Microbiology (+Lab)	4
STA 2023	Elements of Statistics ⁺	3
One science course from the following prefixes: CHM, BSC, BCH, PCB, PHY		3
One social science course from the following prefixes: PSY, SOP, SYG+		3
<hr/>		
Total Hours		27

+ Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 62 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	0-10
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Highly recommended electives include: /, HSC 3535 Introduction to Medical Terminology, PSY 2012 General Psychology, and HSC 3555 Pathophysiology.

Major

NUR 3XXX	Patient Centered Care I ⁺	4
NUR 3XXXL	Patient Centered Care I Lab ⁺	3
NUR 3067	Health Assessment and Promotion ⁺	3
NUR 3XXXL	Introduction to Pharmacological Nursing ⁺	3
NUR 3XXX	Achieving Professionalism I ⁺	3
NUR 3065C	Patient Centered Care II ⁺	3
NUR 3065L	Patient Centered Care II Lab ⁺	3
NUR 3505	Mental Health Nursing Care ⁺	3
NUR 3505L	Mental Health Nursing Care Lab ⁺	2
NUR 3XXX	Healthcare Informatics ⁺	2
NUR 3XXX	Achieving Professionalism II ⁺	2
NUR 4XXX	Patient Centered Care III ⁺	4
NUR 4XXXL	Patient Centered Care III Lab ⁺	3
NUR 4XXX	Patient Centered Care of Families ⁺	3
NUR 4XXXL	Patient Centered Care of Families Lab ⁺	2
NUR 4XXX	Integration of Evidence in Professional Nursing Practice ⁺	3
NUR 4XXX	Patient Centered Care IV ⁺	4
NUR 4XXXL	Patient Centered Care IV Lab ⁺	4
NUR 4XXX	Management and Leadership ⁺	3
NUR 4XXX	Community and Public Health Nursing ⁺	3
NUR 4XXXL	Community and Public Health Nursing Lab ⁺	2
<hr/>		
Total Hours		62

+ Courses included in the major GPA

Graduation Requirement

All students must pass an ATI program exit exam during NUR 4827 to qualify for graduation and RN licensing exam.

Nursing, Registered Nurse to Bachelor of Science in Nursing

The Registered Nurse (RN) to Bachelor of Science in Nursing (BSN) track is designed for those students who have already completed the RN program at a community college. This program track is offered via distance learning format and coursework is 100% online with guided practice activities within the RN students' local community.

The curriculum for the RN to BSN Nursing program track incorporates adult learning theory that builds on previous nursing education to promote development of strong professional level skills and a broader scope of practice. The graduate will demonstrate a higher competency in evidence-based nursing practice, communication, leadership, professional integration, and highly reliable care. Graduates are prepared to manage and coordinate chronic diseases in the community for at-risk populations. Graduates will demonstrate a commitment to the profession and self through the desire for advanced study.

Potential students must complete the common prerequisites for nursing with a grade of "C" or better and either:

1. Completed or "in progress" to complete the General Education requirements at the University of West Florida; or
2. Earned an Associate of Arts degree from a Florida public institution; or
3. Earned the equivalent from another college or university

Acceptance to the University does not constitute admission to the upper division nursing program. A separate departmental application must be made to the program; deadlines and the online application for the fall, spring, and summer terms are available on the RN-BSN webpage.

State tuition waivers may not be utilized in this program.

Not all states authorize online programs, if you are residing outside of Florida you will want to check the status of your state's acceptance of this program: <http://onlinecampus.uwf.edu/GetStarted/StateAuthorization.cfm>

This program will not meet immigration requirements for students holding an F1 or J1 Visa to maintain status. Contact the International Student Office for further information: <http://uwf.edu/internationaloffice/>

Admission Requirements

In addition to the University's general admission requirements as described in the Undergraduate Admissions section of the catalog, students seeking the B.S.N. must meet the following additional requirements at the time of application:

- Associate of Science in Nursing (ASN) degree from a community college
- Minimum overall GPA 2.75 on 4.0 scale
- Current unencumbered United States RN license in the state(s) student will reside while completing *any* portion of the nursing coursework.
 - Military spouses holding a valid U.S. registered nursing license and stationed at an overseas U.S. base may be considered for admission
- Submission of a departmental application by the published deadline (see website for deadline and to access the online application)

- Enrollment in the selected provider for uploading required documentation including RN license, professional liability insurance, HIPAA and BSN Handbook acknowledgments
- If requested, satisfactory completion of Level 2 criminal background check, VECHS fingerprint, and drug screen through the selected provider

Degree Requirements

Students earning a B.S.N. must complete all University General Education and Foreign Language requirements prior to the final semester of coursework in the RN to BSN Nursing major. It is strongly recommended that the 8 courses which comprise the 'Florida Nursing Common Pre-requisites' be completed prior to entry into the major coursework in order to facilitate timely progression through the program coursework.

A minimum grade of "C" is required in all major and major-related courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 241)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 241)

Choose one course from Group A and one Additional course from either Group A or Group B		6
Group A		
MAC 1105	College Algebra	
MAC 2311	Analytic Geometry and Calculus I	
MGF 1106	Mathematics for Liberal Arts I	
MGF 1107	Mathematics for Liberal Arts II	
STA 2023	Elements of Statistics	
Group B		
MAC 1114	Trigonometry	
MAC 1140	Precalculus Algebra	
MAC 2233	Calculus with Business Applications	
MAC 2312	Analytic Geometry and Calculus II	

Social Sciences (p. 241)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B	
AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 241)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B	
AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 241)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 241)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

NOTE: Nursing common prerequisites must be completed prior to admission into the RN to BSN Nursing major coursework.

BSC 1085+L	Anatomy and Physiology I (+Lab) +	4
BSC 1086+L	Anatomy and Physiology II (+Lab) +	4
DEP 2004	Human Development Across the Lifespan +	3
HSC 2577	Principles of Nutrition	3
MCB 1000+L	Fundamentals of Microbiology (+Lab)	4

STA 2023	Elements of Statistics ⁺	3
One science course from the following prefixes: CHM, BSC, BCH, PCB, PHY		3
One social science course from the following prefixes: PSY, SOP, SYG+		3
<hr/>		
Total Hours		27

+ Indicates common prerequisites which can be used to satisfy General Education requirements.

Major

NUR 3067	Health Assessment and Promotion ⁺	3
NUR 3081	Transition to Professional Nursing Practice ⁺	3
NUR 3145	Pharmacology ⁺	3
NUR 4165	Essentials of Evidence-Based Nursing Practice ⁺	3
NUR 4286	Gerontological Nursing ⁺	3
NUR 4636	Public Health & Community-based Nursing ⁺	4
NUR 4828	Nursing Systems Management ⁺	4
NUR 4895	Health Education in the Community ⁺	3
NUR 4125	Pathophysiology and Healthcare Management ⁺	3
NUR 4826	Law & Ethics in Nursing ⁺	3
<hr/>		
Total Hours		32

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	16
<hr/>	
Total Hours	16

For students with an AS degree in Nursing from an accredited institution, up to 16 sh of Associate in Science nursing courses will be validated for upper level credit based upon RN licensure and successful completion of the major courses in the program.

A limited amount of upper division nursing coursework may be accepted as transfer credit in the major coursework upon an approved review of syllabus from an NLN or CCNE accredited program.

Philosophy

The B.A degree in Philosophy is an ideal liberal arts major and provides students with foundations for a great number of careers in areas such as business, writing, teaching, public administration, law, environmental advocacy, the social and human services, and advanced studies in other humanities. The degree program helps students develop skills for problem solving in everyday life and emphasizes comprehension, communication, interpretation, criticism, and evaluation.

Program Requirements

In addition to the University's general requirements, students seeking the B.A. in Philosophy must meet the requirements listed below.

Capstone Requirement

During their senior year of study (or during the junior year with the approval of the department Chair), and with the assistance of their advisor, each student will officially designate one of two options as their Capstone Experience: the Capstone Research Project or the Capstone Portfolio. The Research Project is recommended for those planning to attend graduate school in Philosophy, while the Portfolio is recommended for those not planning further formal study in Philosophy. If the Research Project is chosen, it will be embedded in a course in which the student is enrolled that term. At the beginning of that term, it is the student's responsibility to submit to the Department Chairperson a "Capstone Experience Proposal" (signed by the Instructor of the Capstone Course, if applicable, and the student's advisor). This will specify the additional research project to be performed within the course, or the material to be included in the portfolio, at the completion of which, the degree requirement will be met. The design of the Capstone Research Project will give the student an opportunity to showcase academic accomplishments in a unified format through the production of a substantial research project. Exemplary projects will be submitted to showcase opportunities on and off campus. Please visit the Department of Philosophy website at <http://uwf.edu/philosophy/> for further information on the Capstone Requirement.

Those preparing for graduate work in philosophy should take PHI 3130 Modern Logic to meet the methods requirement and one additional course in history or problems. They should also have the equivalent of two years of college-level study in a foreign language, preferably French or German, before graduation. Students must earn a grade of "C" or higher in all major courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 244)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 244)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 244)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 244)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 244)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 244)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 24

Total Hours 24

Major

PHH 3100	Greek Philosophy	3
PHH 3400	Modern Philosophy	3
PHI 3130	Modern Logic	3
PHI 3670	Ethics	3
3000/4000 level Philosophy courses (PHH, PHI, PHM, PHP)		9
Choose one of the following:		3
PHI 3640	Environmental Ethics	
PHI 4633	Biomedical Ethics	

PHM 3200	Social and Political Philosophy	
PHM 4020	Philosophy of Sex and Love	
Choose one of the following:		3
PHI 3400	Philosophy of Science	
PHI 4300	Theory of Knowledge	
Choose one of the following:		3
PHI 3320	Philosophy of Mind	
PHI 3452	Philosophy of Biology	
PHI 3700	Philosophy of Religion	
PHI 3800	Philosophy of Art	
PHP 3786	Existentialism	
Total Hours		30

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 sh in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.	30
Total Hours	30

The upper-division courses (3000-4000 level) with the following prefixes will be used in calculating the major grade point average: PHH, PHI, PHM, and PHP.

Minors

Philosophy

To earn the minor in Philosophy, students must take 12 sh at the upper division. It is recommended that students include at least one history course and one course in methods and problems. Students in the Philosophy specialization may not earn this minor.	12
Total Hours	12

Physics

The B.S. in Physics focuses on the study of matter and its motion. Ultimately, the goal of physics is to understand how nature behaves from the smallest sub-atomic particle to the entire universe, making it the most fundamental natural science. The various topics covered include electricity and magnetism, electronics, fluids, mechanics, optics, quantum phenomena, concepts of relativity, thermodynamics, waves, and several related laboratory activities.

The Physics Department offers the traditional B.S. program in Physics with specializations in Physics or Engineering Physics. In addition to graduate school, a trained physicist may enter the employment market as a research scientist. Those with an engineering physics background are eligible for entry-level jobs as engineers in organizations such as the Department of Defense, NASA, and the various national labs.

Students interested in obtaining certification to teach this subject area in secondary education need to contact an advisor in this department to carefully plan the course work to satisfy degree and some teacher certification requirements. A degree in this major is required for participation in teacher education certification options.

Program Requirements

In addition to the University's general requirements, students seeking the B.S. in Physics must meet the requirements listed below.

Students should consult with their Physics department advisor for courses which may satisfy both the General Education requirements and common prerequisites. Students must have a C- or better in all major and major related pre-requisite courses.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 247)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 247)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 247)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 247)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 247)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 247)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Physics majors should take the following courses to satisfy the natural science component of General Education.

CHM 2045+L	General Chemistry I (+Lab)	4
CHM 2046+L	General Chemistry II (+Lab)	4

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual/>) for course substitutions from Florida colleges and universities.

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4

MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
MAC 2313	Analytic Geometry and Calculus III	4
PHY 2048+L	University Physics I (+Lab) *	4
PHY 2049+L	University Physics II (+Lab) *	4
Total Hours		28

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		0-9
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It is recommended that students take a computer programming language course, such as COP 2253 Programming Using Java, COP 2334 Programming Using C++, or equivalent.

Engineering Physics Specialization

Major

Physics Core		
PHY 3106	Modern Physics I +	3
PHY 3106L	Modern Physics Laboratory +	2
PHY 3107	Modern Physics II +	3
PHY 3424	Optics +	3
PHY 4323	Electricity and Magnetism I +	3
PHY 4325	Electricity and Magnetism II +	3
PHY 4513	Thermodynamics and Kinetic Theory +	3
PHY 4604	Quantum Theory I +	3
PHY 4910	Undergraduate Research +	2
PHZ 3108	Intermediate-Level Physics Problems +	1
PHZ 4113	Mathematical Physics I +	3
PHZ 4114	Mathematical Physics II +	3
Engineering Physics Specialization		
EGM 2500	Engineering Mechanics-Statics	2
EGM 3401	Engineering Mechanics-Dynamics +	3
3000/4000 Major or related elective as approved by advisor +		2
Total Hours		39

Major-Related

EEL 3111	Circuits I +	3
EEL 3117L	Electrical Circuits Laboratory +	1
EEL 3701	Digital Logic and Computer Systems +	3
EEL 3701L	Digital Logic and Computer Systems Laboratory +	1
EEE 3308	Electronic Circuits I +	3
EEE 4308L	Electronics Laboratory +	1
MAP 2302	Differential Equations	3
MAD 4401	Numerical Analysis +	3
Choose one:		
COP 2253	Programming Using Java	3
or COP 2334	Programming Using C++	
Total Hours		21

+ Courses included in the major GPA

Physics Specialization

Major

Physics Core:

PHY 3106	Modern Physics I ⁺	3
PHY 3106L	Modern Physics Laboratory ⁺	2
PHY 3107	Modern Physics II ⁺	3
PHY 3220	Intermediate Mechanics ⁺	4
PHY 3424	Optics ⁺	3
PHY 4323	Electricity and Magnetism I ⁺	3
PHY 4325	Electricity and Magnetism II ⁺	3
PHY 4445	Lasers and Applications ⁺	3
PHY 4513	Thermodynamics and Kinetic Theory ⁺	3
PHY 4604	Quantum Theory I ⁺	3
PHY 4605	Quantum Theory II ⁺	3
PHY 4910	Undergraduate Research ⁺	2
PHZ 3108	Intermediate-Level Physics Problems ⁺	1
PHZ 4113	Mathematical Physics I ⁺	3
PHZ 4114	Mathematical Physics II ⁺	3

Physics Specialization:

3000/4000 Physics (PHY, PHZ) elective ⁺	4
Total Hours	46

Major-Related

EEL 3111	Circuits I ⁺	3
EEL 3117L	Electrical Circuits Laboratory ⁺	1
MAP 2302	Differential Equations ⁺	3
MAD 4401	Numerical Analysis ⁺	3
3000/4000 level Physics or Mathematics elective as approved by advisor ⁺	4	
Total Hours	14	

+ Courses included in the major GPA

Minors

Physics

A Minor in Physics can be earned by completing 15 sh of physics courses above 3100 level, including PHY 3106 Modern Physics I and PHY 3107 Modern Physics II. Physics majors may not earn this minor.

Political Science

The B.A. in Political Science provides students with a foundation in the liberal arts and social sciences. Courses in the degree plan cover fundamental questions pertaining to the governance of human societies, the origin and evolution of law and justice, the comparative performance of democracies and dictatorships, the exercise of political leadership, the origins of war, and the maintenance of peace. Students will analyze competing theories of human nature and political organization subjecting them to the test of reason, history, and experience. The political science major is appropriate for many students, including those seeking a professional degree in government and public service, specific expertise in international security and diplomacy, familiarity with political organizations, and preparation for employment in advocacy, corporate, education, or non-profit sectors.

The Pre-Law Specialization emphasizes core courses in American government, with attention paid to American political thought, constitutional law, and judicial politics. Students then take courses across a broad array of subjects, including political theory, as well as history, economics and business, philosophy, literature, communications, and statistics. The political science/pre-law major is appropriate for students seeking a pre-professional degree in law.

Program Requirements

In addition to the University's general requirements, students seeking the B.A. in Political Science must meet the following requirements. Students must earn a 2.0 for each mandatory core course of the program.

As a prerequisite, students majoring in Political Science need to earn at least a "C" in POS 2041 American Politics, or to transfer 3 sh of an equivalent lower-division course in American government or political science with a grade of "C" or higher.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 250)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 250)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 250)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 250)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 250)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 250)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Students must complete two introductory courses (6 sh) in Political Science with a POS, INR, or CPO prefix. 6

Total Hours 6

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours 18-21

Recommended electives:

CPO 2002	Comparative Politics	3
INR 2002	International Politics	3
POS 2041	American Politics	3

Political Science Specialization

Major

POT 4601	Modern Masters of Political Thought ⁺	3
or POT 4013	Ancient Masters of Political Thought	
POS 3413	The Presidency ⁺	3
or POS 3424	The Legislative Process	
POS 3033	Analyzing Issues in American Politics ⁺	3
or POS 3734	Political Science Research Methods	
or INR 3073	Analyzing Issues in International Politics	
POS 3608	Constitutional Law: Federalism and Separation of Powers ⁺	3
or POS 3624	Constitutional Law: Individual Rights and Privileges	
3/4000 level CPO course ⁺		3
3/4000 level INR course ⁺		3
3/4000 level POS course ⁺		3
3/4000 level POT course ⁺		3
3/4000 level Political Science (CPO, INR, POS, POT) courses ⁺		6
If not completed at the lower division:		
CPO 2002	Comparative Politics	3
INR 2002	International Politics	3
POS 2041	American Politics	3
Total Hours		39

⁺ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 sh in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours 21-30

Pre-Law Specialization

Major

POS 2041	American Politics	3
POS 3424	The Legislative Process ⁺	3
POS 3608	Constitutional Law: Federalism and Separation of Powers ⁺	3
POS 3624	Constitutional Law: Individual Rights and Privileges ⁺	3
POT 4204	American Political Thought ⁺	3
Choose one of the following		3
POT 4601	Modern Masters of Political Thought ⁺	
POT 4013	Ancient Masters of Political Thought ⁺	
Choose one of the following		3
POS 3033	Analyzing Issues in American Politics ⁺	
INR 3073	Analyzing Issues in International Politics ⁺	
POS 3734	Political Science Research Methods ⁺	

Choose four of the following: 12

CPO 4314	Democracies ⁺
INR 4403	International Law ⁺
POS 3413	The Presidency ⁺
POS 3625	First Amendment Freedoms ⁺
POS 4673	Jurisprudence ⁺

Total Hours 33

Major-Related

Choose five from at least four areas and do not choose more than two from an area: 15

History	
AMH 4131	American Revolutions, 1763-1828 ⁺
AMH 4150	Early American Republic: 1789-1860 ⁺
AMH 4551	U. S. Constitutional and Legal History (to 1877) ⁺
AMH 4552	U. S. Constitutional and Legal History (Since 1877) ⁺
AMH 4575	Civil Rights ⁺
EUH 4503	English Constitutional and Legal History ⁺
3000/4000 level advisor approved course	
Legal Specialties	
CCJ 3024	American Justice System ⁺
CJL 3510	Judicial Process ⁺
EVR 4035	Environmental Law ⁺
MMC 4201	The Constitution and the Press ⁺
PLA 3020	Law and Society ⁺
PLA 3103	Legal Research and Writing ⁺
3000/4000 level advisor approved course	
Literature and Communications	
COM 4103	Leadership Communication ⁺
ENL 4333	Shakespeare ⁺
ENL 4341	Milton ⁺
POT 3103	Law and Politics in Literature ⁺
3000/4000 level advisor approved course	
Skills	
ACG 2021	Principles of Financial Accounting
ECO 3003	Principles of Economic Theory and Public Policy ⁺
STA 2023	Elements of Statistics
3000/4000 level advisor approved course	
Philosophy	
PHH 3100	Greek Philosophy ⁺
PHH 3400	Modern Philosophy ⁺
PHH 4200	Medieval Philosophy ⁺
PHI 3130	Modern Logic ⁺
PHI 3670	Ethics ⁺
3000/4000 level advisor approved course	
Total Hours	15

⁺ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours 12

Minors

This minor is designed for students who seek to gain an understanding of political science.

Political Science

All courses must be completed at UWF and directed studies may not be taken to fulfill requirements. Political Science majors and Political Science/Pre-Law majors may not earn this minor.

Choose one of the following:	3
CPO 2002 Comparative Politics	
INR 2002 International Politics	
POS 2041 American Politics	
Choose one of the following	3
POS 3424 The Legislative Process	
POT 4204 American Political Thought	
POS 3734 Political Science Research Methods	
POS 3033 Analyzing Issues in American Politics	
INR 3073 Analyzing Issues in International Politics	
POT 4601 Modern Masters of Political Thought	
POT 4013 Ancient Masters of Political Thought	
Choose one of the following:	3
POS 3608 Constitutional Law: Federalism and Separation of Powers	
POS 3624 Constitutional Law: Individual Rights and Privileges	
Choose any INR prefix 3000/4000	3
Choose any CPO prefix 3000/4000 course	3
Total Hours	15

Political Science/Pre-Law

The Minor in Political Science/Pre-Law is designed for students who seek to gain a theoretical understanding of the law pursuant to applying to law school. Political Science majors and Political Science/Pre Law majors may not earn this minor.

POS 2041 American Politics	3
Choose one of the following:	3-6
POS 3608 Constitutional Law: Federalism and Separation of Powers	
POS 3624 Constitutional Law: Individual Rights and Privileges	
Choose two or three of the following	6-9
POT 4601 Modern Masters of Political Thought	
POT 4013 Ancient Masters of Political Thought	
POT 4354 Contemporary Political Philosophy	
POS 3613 Constitutional Controversies	
POS 4673 Jurisprudence	
POS 3413 The Presidency	
POS 3424 The Legislative Process	
POS 4602 The Founders' Constitution	
Directed Study-Advisor approved	
Any advisor approved POS or POT course	
Total Hours	12-18

Professional Education Minor

SSE 4324

Teaching Social Studies in the Middle and Secondary Schools

Total Hours

15-25

The Minor in Professional Education is designed to provide non-education majors with the course work that—in conjunction with successful completion of Florida Teacher Certification Examinations, one year of successful teaching experience, and successful completion of a district-approved competence demonstration program for first year teachers—allows for converting a three-year non-renewable temporary certification to a five-year renewable professional certification. Coursework meets the requirement of the Professional Training Option and is consistent with the program requirements of Florida Department of Education Administrative Rule 6A-5.066 (Approval of Educator Preparation Programs) and includes the state required Professional Preparation outlined in Florida Department of Education Administrative Rule 6A-4.006.

Program Requirements

A minimum cumulative GPA of 2.50 is required to enroll in the minor. It is not required but highly recommended that students pass the General Knowledge, Professional Education, and one Subject Area Exam of the Florida Teacher Certification Exam, which are required for Florida Teacher Certification.

Prospective teachers 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. Teacher candidates who are struggling to meet content and/or disposition standards and/or competencies may be referred to the Culture of Achievement through a System of Tiered support (CAST) process. Any student who is referred to CAST and does not successfully complete the intervention process may be denied continued enrollment in the minor.

Requirements for teacher education programs may change due to legislative mandates. Therefore, the actual program requirements may differ from those listed in the catalog. Candidates must inquire with the Chair or an advisor in the Department of Teacher Education and Educational Leadership to obtain the most current program requirements.

The Student Affidavit and Fingerprinting Application are required before any student can be placed in a school for Field Experiences or Student Teaching. Forms are available from the local school districts.

EDF 3234	Applied Foundations of Education	3
EDG 3323	General Methods of K-12 Reading Instruction	3
ESE 4322	Instruction, Management, and Assessment: Secondary Education	3
Choose one:		3-12
ESE 4940	Field Experience 1	
ARE 4940	Art Education Internship	
EDG 4940	Student Teaching	
Choose one content area:		3-4
Art Education		
ARE 4316C	Special Methods in Art Education	
Language Arts Education		
LAE 3324	Teaching Language Arts in the Middle and Secondary Schools	
Mathematics Education		
MAE 4320	Teaching Mathematics in the Middle and Secondary Schools	
Science Education		
SCE 4320	Teaching Science in the Middle and Secondary Schools	
Social Science Education		

Psychology

The B.A. in Psychology enables students to study human behavior. An understanding of psychological processes entails understanding the multiple influences created by the biological characteristics of the organism, the effects of learning and experience, social and cultural dynamics, and developmental change. As a scientific discipline, the study of psychology requires competence in research methodology and critical thinking. Psychology is also an applied discipline, with applications in behavioral and physical health, business, education, and law, among others. Students completing a major in psychology will be prepared to pursue a wide range of careers at the bachelor's level or to pursue advanced training in psychology or other professional schools (such as medicine and law). Students will attain a high-quality liberal arts degree focused on knowledge in the discipline of psychology, integrity in the application of that knowledge, effective project management, and excellent critical thinking and communication skills.

Contact the Department of Psychology for information concerning the Human Resources certificate or the Focus on Human Development.

Program Requirements

In addition to the University's general requirements, students seeking the B.A. in Psychology must meet the requirements listed below.

A minimum grade of "C" is required for PSY 3213 (Research Methods in Psychological Science 1) and PSY 3215 (Research Methods in Psychological Science II), and for one course in each of the Social, Learning and Cognition, Biological, Developmental, Clinical and Workplace cognate areas. No more than 6 sh credits in informal courses (directed study, practicum, field work, co-op, etc.) may be applied to fulfill the upper level Psychology degree requirements.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

Students should take STA 2023 Elements of Statistics to partially fulfill the mathematics component of General Education.

General Education Curriculum:

Communication (p. 255)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 255)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 255)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 255)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 255)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 255)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

PSY 2012	General Psychology *	3
STA 2023	Elements of Statistics *	3
Any 1000 or 2000 level Psychology course **		3
BSC 1005	General Biology for Non-Majors *	2

* Common prerequisites which can be used to satisfy General Studies requirements

** CLP, DEP, EAB, EXP, INP, PCO, PPE, PSB, PSY, IDH, SOP courses

Lower Division Electives (12-24 sh)

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. Students should take STA 2023 Elements of Statistics if not completed as part of General Education.

Upper Division Electives (20-23 sh)

Students must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all major requirements at the 3000/4000 level, whichever is greater.

Major Related ** (0-3 sh)

STA2023 Elements of Statistics

**If not completed at the lower division

Major

PSY 3213	Research Methods in Psychological Science I ⁺	3
PSY 3215	Research Methods in Psychological Science II ⁺	3
PSY 2023	Careers in Psychology	1
Social:		
SOP 3004	Social Psychology ⁺	3
Learning and Cognition (one of the following):		
EXP 4404	Psychology of Learning ⁺	3
EXP 4507	Memory and Cognition ⁺	3
Biological (one of the following):		
EXP 4204	Sensation and Perception ⁺	3
PSB 4002	Brain, Behavior, and Experience ⁺	3
Developmental (one of the following):		
DEP 3103	Child Development ⁺	3
DEP 4305	Psychology of Adolescence ⁺	3
DEP 4404	Adulthood and Aging ⁺	3
Application of Psychology: Clinical/Counseling (one of the following):		
CLP 3144	Abnormal Psychology ⁺	3
CLP 4314	Health Psychology ⁺	3
PCO 4242	Introduction to Group Counseling ⁺	3
PPE 4003	Theories of Personality ⁺	3
PSB 4731	Psychobiology of Sexual Behavior ⁺	3
PSY 4302	Psychology of Assessment ⁺	3
Applications of Psychology: Workplace (one of the following):		
EXP 4250	Human Factors Psychology ⁺	3
INP 3004	Industrial Psychology ⁺	3
INP 3313	Organizational Behavior ⁺	3
INP 4224	Psychology of Workforce Diversity ⁺	3
3000/4000 level Psychology Electives [*]		12
Total Hours		37

* CLP, CYP, DEP, EAB, EXP, INP, PCO, PPE, PSB, PSY, IDH, SOP courses +

+ Courses included in the major GPA

Minors

Psychology

The Minor in Psychology consists of the following or their equivalent. No directed studies may be taken to fulfill the requirements for the minor. A minimum of 9 sh must be completed at UWF. PSY 2012 General Psychology or a general/introductory psychology course is a prerequisite. Psychology majors may not earn this minor.

3000/4000 level Psychology Elective		3
CLP 3144	Abnormal Psychology	3
or PPE 4003	Theories of Personality	3
INP 3004	Industrial Psychology	3
or SOP 3004	Social Psychology	3
EXP 4404	Psychology of Learning	3
or PSB 4002	Brain, Behavior, and Experience	3
Total Hours		12

Sport and Exercise Psychology

The 21-22 sh Minor in Sport and Exercise Psychology is offered by the Department of Psychology in affiliation with the Department of Health, Leisure, and Exercise Science. The minor is primarily designed for those students interested in the psychological aspects of sport and other exercise activities. Completing coursework from sport science and psychology emphasizes the integrated nature of psychomotor performance and its effects on psychological, social, and physical functioning. This minor provides an opportunity for coursework centered on health and exercise (e.g., health, nutrition and physical fitness) and psychology (e.g., sport and exercise psychology) with the option of taking relevant electives from both fields. This minor is available to all students. No directed study may be taken to fulfill the requirements for the minor.

Required:

HLP 2081	Health, Nutrition and Physical Fitness	3
APK 4409	Success in Sports	3
SPM 4012	Sociology of Sport	3
PSY 2012	General Psychology	3
PSY 4832	Sport and Exercise Psychology	3
One of the following:		3-4
APK 3110	Exercise Physiology	3
APK 4200	Motor Development and Skill Learning	3
PET 4310C	Mechanics of Human Motion	3
One of the following:		3
CLP 4314	Health Psychology	3
EAB 4704	Introduction to Behavior Modification	3
EXP 4404	Psychology of Learning	3
Total Hours		21-22

Certificates

Human Resources Certificate

Department: [Psychology](#)

Method of Instruction: [Classroom](#) Semester Hours: 15

The Human Resources Certificate is designed for undergraduates who wish to complete a module of psychology courses related to the management of human resources. This certificate can be earned by those majoring or minoring in psychology, those majoring in other fields such as management, and those who are enrolled as special students with or without a bachelor's degree.

INP 3004	Industrial Psychology	3
INP 3313	Organizational Behavior	3
INP 4224	Psychology of Workforce Diversity	3
SOP 3004	Social Psychology	3
Three additional hours which may include:		3
Any upper-level undergraduate elective approved by I/O faculty		
Directed Individual Study or Service Learning (an applied experience in human resources) *		
<hr/>		
Total Hours		15

Public Administration Minor

The Minor in Public Administration requires 12 sh of course work. No course with a grade below "C" will be counted toward the minor. All courses must be completed at UWF and directed studies may not be taken to fulfill requirements. This minor is available to all undergraduate students.

PAD 3003	Public Administration in American Society	3
PUP 4004	Public Policy	3
Choose two of the following:		6
CCJ 3450	Criminal Justice Management and Organization	
CJE 4110	Police in a Free Society	
CJL 3510	Judicial Process	
COM 4120	Organizational Communication	
GEO 3421	Cultural Geography	
GEO 3502	Economic Geography	
INP 3313	Organizational Behavior	
or MAN 3240	Behavior in Organizations	
MAN 4102	Management of Diversity	
PHI 3670	Ethics	
PLA 3020	Law and Society	
POS 3424	The Legislative Process	
SOW 4232	Analysis of Social Service Policy	
Total Hours		12

ROTC, Army

The Military Science Department's Army Reserve Officers' Training Corps (ROTC) program of instruction qualifies the student for a commission as an officer in the United States Army, Army Reserve, or National Guard. The curriculum compliments any undergraduate or graduate course of study that leads to a degree and provides a base for initial entry into the Army's educational program.

The ROTC program emphasizes leadership and management training. A laboratory provides experience in a range of leadership positions. Practical experience is gained at a summer camp normally attended between the junior and senior years. Men and women undergo the same military training throughout the ROTC program; however, women may not be commissioned in some combat arms branches.

Commissioning Programs

The four-year military science curriculum includes a two-year basic course of study and a two-year advanced course of study. Students enter the four year program as freshmen or sophomores.

The two-year ROTC program is designed for junior college and other non-ROTC college transferees. Four-year students with only two years of school remaining who receive placement credit for the basic course of study may also enroll. Graduate students may qualify for enrollment in the two-year course of study.

Basic Course of Study

The courses which comprise the basic course of study are normally taken as electives in the freshman and sophomore years. These courses prepare students for the advanced course of study by familiarizing them with organization of the Army, military skills, and military traditions. Students do not incur any military obligation as a result of enrolling in the basic course of study.

To enroll, a student must be physically and morally qualified, a full-time degree-seeking student at the University, and a U.S. citizen.

Advanced Course of Study

The advanced course of study covers leadership and management, the exercise of command, military teaching methods, tactics, logistics, administration, history, and military justice. Leadership experience and command experience are provided by assigning advanced course students as cadet officers and noncommissioned officers.

For entry into the advanced course of study students must satisfy the following:

- Complete a lower-division ROTC basic course of study at a college, university, or a junior ROTC program, or attend and successfully complete the ROTC four-week Leader's Training Course (LTC) at Fort Knox, KY, or have prior honorable military service
- Be a U.S. citizen not over 34 years of age at the time of commissioning in the Army (waiverable up to 39 years of age)
- Pass a military medical examination and physical fitness test
- Have two academic years (four semesters) of upper-division course work remaining with a GPA of 2.0 on all lower-division course work
- Have no civil convictions with fines of greater than \$250, unless waiver is applied for and granted
- Be selected by the Professor of Military Science (PMS).

After all entry requirements are met, the student must execute a written agreement (contract and enlistment) with the U.S. Army to complete the advanced course of study, to attend a summer camp at the time specified, and to accept a commission if tendered unless relieved from contract by proper authority.

Requirements to Receive a Commission in U.S. Army

Students desiring a commission in the U.S. Army must complete the following requirements:

- Baccalaureate or graduate degree

18 sh of military science courses including:

MSL 1001	Foundations of Officership	1
MSL 1002	Basic Leadership	1
MSL 2101	Individual Leadership Studies	2
MSL 2102	Leadership and Teamwork	2
MSL 3201C	Tactical Leadership	3
MSL 3202C	Applied Leadership	3
MSL 4301C	Developmental Leadership	3
MSL 4302C	Leadership in a Complex World	3

- Students with prior military service, Junior ROTC, ROTC Leader's Training Course, or equivalent military training can receive placement credit for lower-division courses with departmental approval
- AMH 3540 American Military History
- ROTC Leadership Development and Assessment Course (LDAC) attended between junior and senior years
- Maintain a cumulative GPA of 2.0
- Maintain a 2.0 term and cumulative GPA in military science
- A qualified physical examination, passing score on Army physical-fitness test, and a secret security clearance.

Textbooks and Uniforms

Textbooks and uniforms required for participation in the Army ROTC basic and advanced course are furnished by the Department of Military Science.

Monetary Allowances

Cadets selected for admission into the advanced course and who sign a contract and enlistment qualify for a nontaxable monetary allowance for each month of enrollment during the academic year. Juniors receive \$450 per month; seniors receive \$500 per month. Freshman and sophomore cadets with an Army ROTC scholarship receive \$300 or \$350 per month. In addition, students receive approximately \$900 for the five-week Leadership Development and Assessment Course.

Scholarship Program

Financial assistance is available in the form of ROTC four-year, three-year, and two-year scholarships for selected students. Under this program, the Army will pay tuition and fees or room and board (not to exceed the cost of tuition and fees), a flat rate per semester for textbooks, and other required expenses. In addition, the student receives the monetary allowance described above.

Most students entering the program by attending the four-week Leader's Training Course are eligible to compete for two-year scholarships while at the camp. Coordination should be made with the ROTC office for application at the beginning of the spring semester prior to enrollment.

Activities

The Military Science Department sponsors several activities throughout the year which are designed to enhance the student's participation in college activities, develop leadership skills, and provide a solid foundation for commissioning into the Officers' Corps. Some examples are physical conditioning, rappelling, orienteering, visits to military installations, overnight field training exercises, and a dining-out in the spring.

Minors

Military Science

The Minor in Military Science assists ROTC students in meeting the criteria for a commission as an Officer in the United States Army, Army Reserve or Army National Guard. The courses emphasize leadership and management training while a laboratory provides experience in a range of leadership positions. Practical experience is gained at a summer camp normally attended between the junior and senior years. The minor is only open to ROTC students.

The Military Science Minor requires 12 semester hours of upper division work in military science. None of the 12 military science hours may be taken online and a grade of "C" or higher is required for all courses in the minor.

ROTC, Air Force

Air Force Reserve Officer Training Corps (AFROTC) offers students a course of study leading to a commission as a second lieutenant in the United States Air Force. The student/cadet has an opportunity to explore and evaluate Air Force career opportunities while earning a college degree. Completion of the AFROTC curriculum is the initial step in the education of the professional officer and provides a firm understanding of basic Air Force doctrine, missions, organization and operations.

The AFROTC program consists of two phases: the General Military Course (GMC) and the Professional Officer Course (POC). Each phase requires four (4) semesters of study. All AFROTC cadets must enroll in the lab associated with their course. This lab consists of a 2-hour leadership lab and a minimum of 2 approximately 1-hour physical training (PT) sessions each week (note that documentation of medical clearance using AFROTC provided forms will be required prior to authorization to participate in PT).

General Military Course (GMC)—The Basic Course

Students may enroll in the GMC course with no military obligation; however, students new to AFROTC must speak with a member of the UWF Air Force Department for enrollment approval and instructions. The GMC courses deal primarily with the various Air Force organizations and their missions as well as the history of the Air Force. Communication skills are also emphasized.

The GMC is further divided into two phases:

1. Initial Military Training (IMT), a cadet's first year in AFROTC where he/she is introduced to the Air Force:

AFR 1101	The Foundations of the United States Air Force I	1
AFR 1101L	The Foundations of the United States Air Force I Lab	0
AFR 1112	The Foundations of the United States Air Force II	1
AFR 1112L	The Foundations of the United States Air Force II Lab	0

2. Field Training Preparation (FTP), a cadet's second year of training where he/she is introduced to the evolution of air and space power and competes for a field training allocation for the following summer:

AFR 2130	The Evolution of USAF Air and Space Power I	1
AFR 2130L	The Evolution of USAF Air and Space Power I Lab	0
AFR 2132	The Evolution of USAF Air and Space Power II	1
AFR 2132L	The Evolution of USAF Air and Space Power II Lab	0

Summer Field Training

During their Field Training Prep year, all students must compete for the opportunity to attend Field Training the following summer. This is a competitive application process and selection is based on interest in the Air Force, cumulative college GPA, performance on the Air Force Officer Qualification Test (AFOQT) standardized test, demonstrated leadership potential, and physical fitness.

Field Training takes place at Maxwell AFB in Montgomery, AL and spans approximately four weeks. Students are furnished with uniforms, medical care and transportation, or payment for travel, associated with their field training session.

Professional Officer Course (POC)—The Advanced Course

POC Enrollment is limited to those students who have been accepted for the course (generally upon successful completion of the summer

Field Training). Individuals entering the POC must have a minimum of two academic years remaining in college as full-time students as an undergraduate. Upon completion, all POC students are obligated to accept a commission and enter active duty Air Force.

Junior-year materials emphasize student involvement in learning and practicing management and leadership techniques. Senior-year materials cover national security policy and the Armed Forces as an integral element of society. Throughout the entire AFROTC curriculum, Leadership and management skills as they apply to a Junior officer in the Air Force are emphasized, and communication skills are stressed.

Students who enter the POC in good standing are contracted into the POC. This contract obligates the cadet to pursue completion of the AFROTC program and commission in the Air Force and provides a monthly nontaxable allowance.

AFR 3221	Air Force Leadership and Management I	3
AFR 3221L	Air Force Leadership and Management I Lab	0
AFR 3232	Air Force Leadership and Management II	3
AFR 3232L	Air Force Leadership and Management II Lab	0
AFR 4211	National Security Forces in Contemporary American Society I	3
AFR 4211L	National Security Forces in Contemporary American Society I Lab	0
AFR 4214	National Security Forces in Contemporary American Society II	3
AFR 4214L	National Security Forces in Contemporary American Society II Lab	0

AFROTC College Scholarship Program

The Professor of Air Force Studies (PAS) can nominate qualified freshmen, sophomores, and juniors to compete for scholarships covering up to 3.5 years. Scholarship recipients contract with the Air Force to pursue completion of the AFROTC program and subsequent commission. The scholarship entitlement pays full tuition and fees at UWF, a textbook allotment and the monthly allowance mentioned in the POC section. Scholarship consideration is predicated on student ability (e.g. grades/transcript, SAT or equivalent exam scores, fitness scores), performance (e.g. demonstrated leadership and followership traits) and Air Force needs (e.g. filling needed majors or career fields).

Three and four-year scholarships are also available to high school students. High school students interested in applying should contact the UWF Air Force ROTC Detachment by phone at (850) 473-7705 or by mail at UWF Air Force ROTC (AFROTC), 11000 University Parkway, Bldg 78 Room 124 Pensacola, FL 32514-5753 or apply via the internet at <http://www.afrotc.com>.

Sciences, Interdisciplinary

Pre-Pharmacy Contact Information

Building	Phone	Website	Email
58, Room 81	(850) 474-3060	http://uwf.edu/cseh/departments/public-health-clinical-health-sciences/	clinicalabsciences@uwf.edu

Zoo Science Contact Information

Building	Phone	Website	Email
58, Room 79	(850) 474-2748	http://uwf.edu/biology/	biology@uwf.edu

The Interdisciplinary Science program is designed for students who want a broadly based education in the natural sciences rather than an in-depth study of one field. The program covers pre-pharmacy and zoo science. Because some professional schools prefer their applicants to demonstrate excellence in a specific discipline, the interdisciplinary science major considering dentistry, medicine, optometry or veterinary medicine should consult a pre-professional advisor.

Pre-Pharmacy Specialization

The Pre-Pharmacy Specialization is intended to prepare students for admission to Pharmacy School. Prospective students need to be aware that some biology lab courses involve the use of live animals. Students may wish to seek details from course instructors before enrolling.

Minimum grade of "C" or better required in all courses in the program to include all Core, Specialization, Subcore, Major-Related, Electives and Common Prerequisites.

The number of students applying for professional training in fields such as medicine, osteopathic medicine, dentistry, veterinary medicine, optometry, podiatry, pharmacy, and physical therapy always exceeds the number of positions available. Therefore, competition for these positions is very intensive. Students from Florida primarily apply to in-state professional schools. Professional schools are interested in a student's academic training and accomplishments as measured by the student's transcripts. The most successful applicants are full-time students (minimum of 12 sh per semester) with a minimum cumulative GPA above 3.5 during the three or four semesters immediately preceding application. Applicants to pharmacy school should take the PCAT exam during their Junior year.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 263)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 263)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 263)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 263)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 263)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 263)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Students should take the following required courses:

Socio-Political:

ECO 2013	Principles of Economics Macro	3
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Values and Expressions:

SPC 2608	Basic Communication Skills	3
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Mathematics:

MAC 1140	Precalculus Algebra	3
MAC 2311	Analytic Geometry and Calculus I	4

Science:

CHM 2045+L	General Chemistry I (+Lab)	4
CHM 2046+L	General Chemistry II (+Lab)	4

Fine Arts:

ARH 2050	Western Survey I: Greek to Renaissance (Literature:)	3
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Literature:

LIT 2000	Introduction to Literature	3
Total Hours		27

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Students should note that the Common Prerequisites listed below are pending approval by the Florida Articulation Coordinating Committee. A grade of "C" or better is required in each of the Common Prerequisite courses.

BSC 2010+L	Biology I (+Lab)	4
BSC 2011+L	Biology II (+Lab)	4
CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
MAC 2311	Analytic Geometry and Calculus I *	4
MAC 2312	Analytic Geometry and Calculus II *	4
PHY 2053+L	General Physics I (+Lab) *	4
OR		
CHM 2210	Organic Chemistry I	
CHM 2210L	Organic Chemistry I Laboratory	
PHY 2054+L	General Physics II (+Lab) *	4
OR		
CHM 2211	Organic Chemistry II	
CHM 2211L	Organic Chemistry II Lab	
Total Hours		32

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Major

BCH 3033+L	Biochemistry I (+Lab)	4
BCH 3034	Biochemistry II	3
BSC 2844	Biology Skills	1
CHM 3120+L	Analytical Chemistry (+Lab)	4
MCB 3020+L	Microbiology (+Lab)	4
PCB 3063+L	Genetics (+Lab)	4
PCB 4233+L	Immunology (+Lab)	4
PCB 4922	Biology Seminar	1
Total Hours		25

Major-Related

BSC 1085	Anatomy and Physiology I	3
BSC 1085L	Anatomy and Physiology I Laboratory	1
BSC 1086	Anatomy and Physiology II	3
BSC 1086L	Anatomy & Physiology II Laboratory	1
SPC 2608	Basic Communication Skills	3
Pre-Pharmacy Electives: *		24

Select 24 semester hours from the following:

CHM 3230	Organic Chemistry III	
CHM 3410	Physical Chemistry I	
GEY 4001	Gerontology	
HSC 3535	Introduction to Medical Terminology	
PCB 3930	Biology Seminar Series	
PCB 4098	Concepts in Human Physiology	
PCB 4098L	Concepts in Human Physiology Laboratory	
PCB 3097	Introduction to Human Anatomy	
PCB 3097L	Introduction to Human Anatomy Laboratory	

PCB 4723	Comparative Animal Physiology	
PCB 4723L	Comparative Animal Physiology Laboratory	
CHM 3400C	Basic Physical Chemistry	
CHM 4455+L	Introduction to Polymer Science (+Lab)	
CHM 4611	Inorganic Chemistry	
CHM 4930	Seminar: Special Topics in Advanced Chemistry	
BOT 4850	Medicinal Botany	
HSC 3555	Pathophysiology	
MLS 4462+L	Medical Microbiology (+Lab)	
PCB 4524+L	Molecular Biology (+Lab)	
HSC 4143	Drugs in Society	
MCB 4276	Epidemiology of Infectious Disease	
Directed study approved by advisor		
Total Hours		35

* Students must check with advisor before selecting electives from the list to ensure all current Pharmacy School prerequisites are met.

Zoo Science Specialization

The Zoo Science Specialization is designed for and limited to students who have completed an A.S. in Zoo Animal Technology. No more than 24% of the program requirements for this degree may be in traditional business subjects. It provides further study of the field with an emphasis on the biological sciences. The specialization has been designed to prepare students for a wide variety of careers in the animal industry, in such fields as zookeeper, curator, or director or operating one's own animal industry business. It is not designed as a pre-veterinary medicine program and does not include all of the courses normally required for admission to a college of veterinary medicine.

Minimum grade of "C" or better required in all courses in the program to include all Core, Specialization, Subcore, Major-Related, Electives and Common Prerequisites.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 263)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 263)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 263)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 263)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 263)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 263)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Students transferring from Florida Community Colleges with an A.S. should consult with an advisor in the department before determining which other courses will need to be taken to complete UWF's General Studies Program.

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

A grade of "C" or better is required in each of the Common Prerequisite courses.

CHM 2045+L	General Chemistry I (+Lab) *	4
CHM 2046+L	General Chemistry II (+Lab) *	4
ENC 1101	English Composition I *	3
ENC 1102	English Composition II *	3
LIT 2xxx Literature Course *		3
MAC 1105	College Algebra *	3
PAZ xxxx Animal Science Courses		15
PSY 2012	General Psychology *	3
STA 2023	Elements of Statistics *	3
BSC 2010+L	Biology I (+Lab) *	4
BSC 2011+L	Biology II (+Lab) *	4
Choose one of the following:		3
SPC 2608	Basic Communication Skills	
SPC 1600	(Pensacola State College)	
Total Hours		52

* Indicates common prerequisites which can be used to satisfy General Studies requirements.

Major

BSC 2844	Biology Skills	1
BSC 4303	Biogeography	3
PCB 3063+L	Genetics (+Lab)	4
PCB 3253+L	Developmental Biology (+Lab)	4
PCB 4043+L	Ecology (+Lab)	4
PCB 4723+L	Comparative Animal Physiology (+Lab)	4
PCB 4922	Biology Seminar	1
ZOO 4513	Animal Behavior	3
Choose three of the following:		9-11
PCB 4673	Principles of Evolution	
ZOO 4254+L	Marine Invertebrate Zoology (+Lab)	
ZOO 4304+L	Marine Vertebrate Zoology (+Lab)	
ZOO 4457	Fish Physiology	
ZOO 4485	Marine Mammalogy	
Total Hours		33-35

Major-Related

ECO 3003	Principles of Economic Theory and Public Policy *	3
FIN 3403	Managerial Finance	3
MAN 3025	Management Fundamentals	3
MAR 3023	Marketing Fundamentals	3
Choose two of the following:		5-6
ACG 3082	Accounting for Non-Majors +	
STA 4173	Biostatistics	
3000/4000 level Biology Directed Study		
3000/4000 level Business Elective +		
Required:		
Animal Science (PAZ) courses transferred from Community College #		11-12
Total Hours		28-30

* May be used to meet General Studies requirements if student has not earned an A.A. from a Florida Public Institution. If the fine arts and historical issues requirements are met with lower division courses, students will be able to select an advisor approved 3000/4000 level course to fulfill the 48 hour upper division requirement.

- + Choosing these 2 Business courses affords students the opportunity to earn a Business Minor. Business minors must also include a computer literacy course. See advisor for details.
- # Number of hours varies according to previous selection

Social Sciences, Interdisciplinary

Children and Society Specialization

Building	Phone	Website	Email
FWB Campus Building 4, Room 458	(850) 863-6588	uwf.edu/ interdisciplinary	kjohnson@uwf.edu
Main Campus Building 85, Room 157	(850)474-2312	uwf.edu/ interdisciplinary	ekollar1@uwf.edu

Teaching and Learning

Building	Phone	Website	Email
Building 85, Room 196	(850) 857-6306	uwf.edu/ interdisciplinary	tess@uwf.edu

The B.A. in Interdisciplinary Social Sciences is for students wishing to pursue careers in fields that focus on solutions to some of society's most pressing problems. Specializations available are Children and Society and Teaching and Learning. Courses in these specializations draw from multiple disciplines.

Program Requirements

In addition to the University's general requirements, students seeking the B.A. in Interdisciplinary Social Sciences must meet the requirements listed below.

Consult with your academic advisor for courses which may satisfy both the General Studies requirement and common prerequisites.

**** Children and Society Specialization Only ****

Students must earn a grade of "C" or higher in all major and major related courses.

General Studies

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Studies Curriculum:

Communication (p. 269)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 269)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 269)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 269)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 269)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 269)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

Students are required to take two introductory courses in social science, and it is recommend that students take 1000/2000 level courses required in their chosen specializations. 6

Total Hours 6

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 18-24

Total Hours 18-24

Children and Society Specialization

The Interdisciplinary Children and Society program is for students desiring a focused yet broad exposure to the complex and interconnected issues surrounding today’s youth and their families. This program allows students to explore a variety of topics related to the educational and social development of children. Students also have the opportunity to discover the range of challenges and difficulties faced by children. Similarly, the program offers students a chance to identify early warning signs that children are “in trouble” and determine the best courses of action to help children to succeed in a complex world.

With careful selection of courses in consultation with an academic advisor, students in the Children and Society program may also complete the state-approved Professional Education minor. Those students planning to complete the Professional Education minor should consult with the academic advisor concerning program substitutions that can be made to accommodate courses in the minor.

Major

Students pursuing the Minor in Professional Education as part of this degree program must closely consult with their academic advisor to ensure all requirements are met with minimum hours.

Core Courses

Core Courses		
CCJ 3024	American Justice System +	3
CCJ 4700	Research Design in Criminal Justice +	3
CCJ 4940	Criminal Justice Internship +	3
CJJ 4010	Juvenile Justice +	3
EDF 3234	Applied Foundations of Education +	3
EDG 3323	General Methods of K-12 Reading Instruction +	3
SOW 3650	Introduction to Child Welfare +	3
Choose two of the following: 6		
DEP 3103	Child Development +	
DEP 4305	Psychology of Adolescence +	
SOW 4111	Adolescents At Risk +	
SOW 4242	Families and Family Treatment +	

Total Hours 27

Major-Related

Choose from courses not taken as part of the core: 21		
CCJ 3014	Criminology +	
CCJ 3511	Family Crime and Violence +	
CCJ 4141	Restorative Justice +	
CJC 4167	Alternative Punishments +	
CJE 4110	Police in a Free Society +	
DEP 3103	Child Development +	
DEP 4305	Psychology of Adolescence +	
EAB 4704	Introduction to Behavior Modification +	

PLA 3020	Law and Society ⁺	
PLA 3806	Family Law ⁺	
SOW 3314	Case Management ⁺	
SOW 4111	Adolescents At Risk ⁺	
SOW 4242	Families and Family Treatment ⁺	
Other electives as approved by the advisor		
Total Hours		21

+ Courses included in the major GPA

Upper Division Electives

The remainder of the program will be comprised of electives that students can select without limitation. However, students will be advised to select additional 3000/4000 level courses to total at least 48sh at the 3000/4000 level if necessary. If students do not require additional 3000/4000 level courses, they may take 1000/2000 level courses at UWF.	12
Total Hours	12

Teaching and Learning

The Interdisciplinary Teaching and Learning program provides a broad view of

issues related to the learner and education. The teaching and learning specialization provides students with a framework to address theories related to

the learner, social considerations for the learner, foundational curriculum used

in teaching, and immersive experiences aligning theory to practice.

Graduates of

this specialization are prepared to work in private settings or agencies that do

not require graduation from an initial certification program; students graduating

with this specialization may be eligible for temporary certification under Florida Department of Education criteria and may subsequently earn certification

as they become eligible in one of Florida's alternative certification programs.

Educational Foundations		12
Choose 12 semester hours from the following:		
EDF 3234	Applied Foundations of Education ⁺	
EEX 4261	Educational Management of Exceptional Children ⁺	
EEX 3070	Methods in Inclusion and Collaboration ⁺	
EDE 4421	Educational Assessment ⁺	
- OR -		
EEX 4221C	Evaluation and Prescriptive Instruction for the Exceptional Child ⁺	
Methods of Instruction		15
Choose 15 semester hours from the following:		
EDE 4200	Planning and Curriculum I ⁺	
LAE 3314	Literacy for the Emergent Learner ⁺	
MAE 4310	Teaching Mathematics in the Elementary School ⁺	
RED 3310	Literacy Instruction for the Intermediate Learner ⁺	
SCE 4310	Teaching Science in the Elementary School ⁺	
SSE 4113	Social Studies for Elementary Teachers ⁺	
TSL 4080	ESOL Principles and Practices ⁺	
Advisor approved electives:		30
Capstone Project		3
EDE 4905	Directed Study	

- OR -

EDM 4905	Directed Study
- OR -	
ESE 4905	Directed Study
- OR -	
EEX 4905	Directed Study

Total Hours 60

+ Courses included in the major GPA

Social Work

The BSW in Social Work, accredited by the Council on Social Work Education, prepares students to enter beginning professional social work practice.

Program Requirements

In addition to the University's general requirements, students seeking the BSW in Social Work must meet the requirements listed below. Consult with your academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

The program requires 45 sh in social work courses and 3 sh of prescribed major-related courses and includes two field experiences. A practicum is part of the Introduction to Generalist Practice course, taken in the student's second term. This course introduces the student to agency practice. A field placement is part of the senior Field Instruction course. Please contact the department for information on prerequisites and additional requirements.

All Social Work courses must be completed with at least a "C" to be counted toward completion of the degree requirements. No prior work or volunteer experience can be accepted for academic credit.

Because this is a professional preparation program, the department has an application for the Field Instruction courses SOW 4510 Social Work Field Instruction and SOW 4522 Senior Seminar. After declaring the Social Work major with the University, students must complete the following courses with a grade of "C" or better in both academic and practice components and complete and submit the Field Instruction application packet.

SOW 3103	Human Behavior in Social Environment	3
SOW 3113	Human Behavior in Organizations and Communities	3
SOW 3203	Introduction to the Field of Social Work	3
SOW 3313	Work With Individuals and Families	3
SOW 3322	Work With Groups	3
SOW 3350	Interviewing and Recording	3
SOW 3503	Introduction to Generalist Practice	3
SOW 4232	Analysis of Social Service Policy	3
SOW 4233	Human Diversity and Social Justice	3
SOW 4403	Social Work Research Foundations	3

Students must have a University minimum GPA of 2.0, and a minimum GPA of 2.5 in the major as a prerequisite to SOW 4510 Social Work Field Instruction and SOW 4522 Senior Seminar.

Social work majors who have been inactive for three years prior to field placement will be subject to faculty review and may be subject to repeating their practice courses. Students must complete courses required for graduation within five years of entry in the major (usually the junior year) with no less than nine credits completed in any one year.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 272)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 272)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 272)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 272)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 272)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 272)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

POS 2041	American Politics *	3
PSY 2012	General Psychology *	3
SYG 2000	Introduction to Sociology *	3
Choose one of the following:		3
ECO 2013	Principles of Economics Macro *	
ECO 2023	Principles of Economics Micro	
Choose one of the following:		3

BSC 1005	General Biology for Non-Majors *	
BSC 1085	Anatomy and Physiology I *	
Total Hours		15

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	9-21
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Major

SOW 3103	Human Behavior in Social Environment +	3
SOW 3113	Human Behavior in Organizations and Communities +	3
SOW 3203	Introduction to the Field of Social Work +	3
SOW 3313	Work With Individuals and Families	3
SOW 3322	Work With Groups +	3
SOW 3350	Interviewing and Recording +	3
SOW 3503	Introduction to Generalist Practice +	3
SOW 4232	Analysis of Social Service Policy +	3
SOW 4233	Human Diversity and Social Justice +	3
SOW 4403	Social Work Research Foundations +	3
SOW 4510	Social Work Field Instruction +	9
SOW 4522	Senior Seminar +	3
Choose two social work electives:		6
SOW 3650	Introduction to Child Welfare +	
SOW 4111	Adolescents At Risk +	
SOW 4242	Families and Family Treatment +	
SOW 4674	Social Issues and Intervention Strategies in Social Work Practice with Older Adults +	
SOW 4700	Substance Abuse Prevention and Treatment: Special Issues +	
SOW 4740	Dimensions of Death and Dying: Special Issues +	
Total Hours		48

+ Courses included in the major GPA

Major-Related

Choose one of the following:		3
CLP 3144	Abnormal Psychology	
PPE 4003	Theories of Personality	
Total Hours		3

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater.

Total Hours	9
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Tk20

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

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

Minors

A grade of "C" or higher is required in all courses in the minor.

Aging Studies Interdisciplinary

The minor in Aging Studies provides a broad orientation to the field of gerontology and service to the elderly. This minor is available to all students.

APK 4600	Aging and Physical Performance	3
SOW 4674	Social Issues and Intervention Strategies in Social Work Practice with Older Adults	3
SOW 4740	Dimensions of Death and Dying: Special Issues	3
Choose one of the following:		3
DEP 4404	Adulthood and Aging	
HSA 4110	Health Care Policy and Administration	
HSC 4120	Consumer Health Education	
PLA 4607	Wills, Estates, and Trusts	
A practicum or other elective may be approved by department Chairperson		
Total Hours		12

Child Welfare

The purpose of this minor is to introduce and provide information to any interested person regarding the social problems of children and families and the availability of services to families in need. This minor is available to all students. Other electives may be approved by department chairperson.

SOW 3650	Introduction to Child Welfare	3
Choose one of the following:		3
DEP 3103	Child Development	
DEP 4305	Psychology of Adolescence	
Choose one of the following:		3
SOW 4111	Adolescents At Risk	
SOW 4242	Families and Family Treatment	
Choose one of the following:		3
DEP 3103	Child Development *	
DEP 4305	Psychology of Adolescence *	
EAB 4704	Introduction to Behavior Modification	
HSC 4633	Current Issues in School-Community Health	
SOW 3314	Case Management	
SOW 4111	Adolescents At Risk *	
SOW 4141	Social Aspects of Family Violence	
SOW 4242	Families and Family Treatment *	
SYO 3100	The Family	
Total Hours		12

* May be used if not taken as a required course.

Social Welfare

The Minor in Social Welfare includes the two beginning courses designed to orient students to social work philosophy, ethics, and practice areas and two social work electives. All courses must be taken at UWF. This minor is not available to Social Work Majors. Other electives may be approved by department chairperson.

BSC 1005	General Biology for Non-Majors	2
SOW 3103	Human Behavior in Social Environment	3
SOW 3203	Introduction to the Field of Social Work	3
Choose two of the following:		6
SOW 3314	Case Management	
SOW 3650	Introduction to Child Welfare	
SOW 4111	Adolescents At Risk	
SOW 4141	Social Aspects of Family Violence	
SOW 4242	Families and Family Treatment	
SOW 4700	Substance Abuse Prevention and Treatment: Special Issues	
SOW 4740	Dimensions of Death and Dying: Special Issues	
Total Hours		14

Substance Abuse

The Minor in Substance Abuse fulfills some of the requirements for certification from the Certification Board for Addiction Professionals of Florida. This minor is available to all students. A substitute course may be approved by department chairperson.

PCO 4310	Intervention in Addictions	3
SOW 4700	Substance Abuse Prevention and Treatment: Special Issues	3
Choose one of the following:		3
CLP 4314	Health Psychology	
SOW 3314	Case Management	
3000-4000 level advisor approved elective		3
Total Hours		12

Certificates

Children's Services Certificate

Department: [Social Work](#)

Method of Instruction: [Classroom](#)

Semester Hours: 9

Provides Bachelors of Social Work students with the educational experiences necessary to be effective child welfare workers. Participants will be expected to participate in a range of focused educational experiences and take positions in foster care and adoptions with C&F agencies upon graduation. This certificate is only available for Social Work majors.

SOW 3650	Introduction to Child Welfare	3
SOW 4242	Families and Family Treatment	3
SOW 4522	Senior Seminar *	3
Total Hours		9

* In an IVE funded child welfare agency—400 contact hours

Supply Chain Logistics Management

The B.S.B.A. in Supply Chain Logistics Management is an included program in the University's accreditation by AACSB International.

Today's businesses operate in increasingly complex domestic and global marketplaces. Managing logistics operations within such complex supply chains impacts all aspects of the organization, as well as, its customers and suppliers. The Supply Chain Logistics Management major provides students with the core knowledge to recognize, understand and manage logistics and transportation operations and market such services.

Supply Chain Logistics Management course work will expose students to core supply chain management areas of logistics, transportation, materials planning and management, demand management, finished goods distribution, customer service, global and intermodal logistics, transportation brokerage and freight forwarding, logistics analytics, and procurement.

The major builds an understanding of how logistics and transportation are managed by connecting students to business logistics in the field through interactions with executives in the classroom and in industry facilities. Students will be skilled in identifying the critical service and cost factors when making business logistics decisions, and students will be equipped with the skills to evaluate trade-offs between the factors and to ultimately make the most cost effective and service effective logistics decisions.

Program Requirements

In addition to general University requirements, students seeking the B.S.B.A. in Supply Chain Logistics Management must meet the requirements listed below. A minimum course grade of "C" is required in all College of Business prerequisites, major, and major-related courses.

Students should consult with their academic advisor for courses which may satisfy both the General Education requirements and common prerequisites.

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 276)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 276)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 276)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 276)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 276)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B

ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 276)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Supply Chain Logistics Management should take the following courses to satisfy components of the General Education curriculum courses:

Humanities		3
SPC 2608	Basic Communication Skills	
Mathematics		6
STA 2023	Elements of Statistics	
MAC 2233	Calculus with Business Applications	
Social sciences		3
ECO 2013	Principles of Economics Macro	

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/>)

common-prerequisite-manual) for course substitutions from Florida colleges and universities.

ACG 2021	Principles of Financial Accounting	3
ACG 2071	Principles of Managerial Accounting	3
CGS 2570	Personal Computer Applications	3
ECO 2013	Principles of Economics Macro *	3
ECO 2023	Principles of Economics Micro	3
MAC 2233	Calculus with Business Applications *	3
STA 2023	Elements of Statistics *	3
Total Hours		21

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours	3-12
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College of Business BSBA Core

All students pursuing a BSBA major in the College of Business must complete each of the following BSBA core courses with a grade of C (2.0) or better.

BUL 3130	Legal Environment of Business	3
FIN 3403	Managerial Finance	3
GEB 3213	Writing for Business: Theory and Practice	3
GEB 3453	Business Ethics and Stakeholder Management	3
GEB 4361	International Business	3
ISM 3011	e-Business Systems Fundamentals	3
MAN 3025	Management Fundamentals	3
MAN 3504	Operations Management	3
MAN 4720	Policy Analysis and Formulation	3
MAR 3023	Marketing Fundamentals	3
Total Hours		30

College of Business Undergraduate Transfer Credit Policy

The College of Business at the University of West Florida is accredited by AACSB International, the highest level of accreditation available to a college or school of business. As such, the College believes that it is in the student's best interest to take all junior/senior level BSBA Core, Major, and Major-related courses at UWF. These courses are typically taught by academically or professionally qualified faculty members as defined in the College's policy on faculty qualifications.

Undergraduate transfer credit for degree programs in the College of Business is awarded consistent with specifications in the UWF Catalog and the requirements of Florida's Common Numbering System.

Normally, the College will not accept transfer credits for courses completed more than 15 years prior to the date of the request for acceptance of the transfer credits.

Normally, the College of Business will not accept transfer credits as equivalent to UWF 3000/4000 level business-related courses from institutions not accredited by AACSB International.

Students should seek guidance from their College of Business academic advisors on these matters.

Supply Chain Logistics Management Specialization

MAR 3202	Supply Chain Logistics Management +	3
TRA 3234	Warehousing and Terminal Management +	3
TRA 4155	Seminar in Supply Chain Logistics Strategy +	3
TRA 4202	Logistics Systems and Analytics +	3
MAN 4597	Global Logistics Management +	3
MAN 4570	Purchasing and Supply Management +	3
TRA 3153	Strategic Transportation Management +	3
Total Hours		21

Major-related

3000/4000 level advisor-approved electives or logistics internship +	9
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+ Courses included in the major GPA

Certificates

Supply Chain Logistics Certificate

Department: [Marketing](#)

Semester Hours: 12 sh upper division, at least 9 sh of which must be taken at UWF.

Program Requirements: in addition to meeting general UWF requirements, participants must successfully complete the prescribed courses earning a grade of "C" (2.0) or better in each course, and secure a combined grade point average of 2.5 or higher for the course required by the certificate.

Requirement A		3
MAR 3202	Supply Chain Logistics Management	
Requirement B		9
MAN 4570	Purchasing and Supply Management	
MAN 4597	Global Logistics Management	
TRA 3153	Strategic Transportation Management	
TRA 3234	Warehousing and Terminal Management	
TRA 4202	Logistics Systems and Analytics	
TRA 4155	Seminar in Supply Chain Logistics Strategy	
Advisor-approved upper-division Marketing (MAR) elective		
Total Hours		12

Teacher Education Programs

The Department of Teacher Education and Educational Leadership (TEEL) offers a variety of programs to students who want to teach students in Kindergarten through High School. Admission to all teacher education programs is restricted, requiring a minimum GPA, successful completion of Florida Teacher Certification Exams, and other requirements. TEEL partners with local school districts to prepare highly qualified graduates who are ready to assume classroom leadership roles. TEEL is a part of the NCATE Accredited Professional Education Unit and its teacher certification programs are approved by the Florida Department of Education.

Exceptional Student Education (K-12) and Elementary Education (K-6) Dual Certification

This 132 hour program prepares graduates to teach children and youth with exceptionalities (K-12) and traditional elementary (K-6) students. Many aspects of the program provide the student with opportunities to work with exceptional children and in the traditional elementary classroom. Graduates of this Florida Department of Education (FLDOE) approved specialization earn FLDOE professional certification in both Exceptional Student Education and Elementary Education with ESOL and Reading Endorsements, and are certified as "highly qualified" based upon the No Child Left Behind Act. This program may be completed fully online or by combining face-to-face and online courses. For more information about this program, please see the Exceptional Student Education portion of the undergraduate catalog (<http://catalog.uwf.edu/undergraduate/exceptionalstudenteducation>) or contact Teacher Education Student Services (TESS@uwf.edu or 850-857-6306).

Elementary Education (K-6)

The traditional 128 hour FLDOE approved specialization leads directly to Florida teacher certification in Elementary Education with ESOL and Reading Endorsements for Kindergarten through Grade 6. This program is offered in a face-to-face format with some courses also being offered online. For more information about this program, please see the Elementary Education portion of the undergraduate catalog (<http://catalog.uwf.edu/undergraduate/elementaryeducation>) or contact Teacher Education Student Services (TESS@uwf.edu or 850-857-6306).

Middle and High School Subjects

Students should earn a degree in the major field of study, e.g., English, History, Biology, etc., and complete one of the following options:

Professional Education Minor (Undergraduate Coursework)

The Minor in Professional Education is designed to provide non-education majors with the Professional Education component requisite to becoming a certified teacher in Florida. Coursework meets the requirement of the Professional Training Option and is consistent with the program requirements of Florida Department of Education Administrative Rule 6A-5.066 (Approval of Educator Preparation Programs) and includes the state required Professional Preparation outlined in Florida Department of Education Administrative Rule 6A-4.006. For more information about this program, please see the Professional Education Minor portion of the undergraduate catalog (<http://catalog.uwf.edu/undergraduate/professionaleducation>) or contact Teacher Education Student Services (TESS@uwf.edu or 850-857-6306).

Music Education

The Bachelor of Music Education is designed for students seeking careers in the field of music education and prepares graduates to teach music in public and private schools. The degree includes Florida Department of Education certification in Music (K-12) with accreditation by the National Association of Schools of Music (NASM). Permission to major in music is required through audition and application to the department. For more information about this program, please see the Music Education portion of the undergraduate catalog (<http://catalog.uwf.edu/undergraduate/musiceducation>) or contact the Department of Music advisor (music@uwf.edu or 850-474-2147).

Physical Education

The Physical Education/Teacher Education Specialization prepares students to teach in public and private schools. The degree includes Florida Department of Education certification in Physical Education (K-12). For more information about this program, please see the Physical Education-Teacher Education portion of the Exercise Science and Community Health section of the undergraduate catalog (<http://catalog.uwf.edu/undergraduate/healthleisureandexercisescience>) or contact the ESCH advisor (hles@uwf.edu or 850-474-2592).

Theatre

The B.A. in Theatre degree provides students who study general theatre the opportunity to put an emphasis on history and criticism in the Performance Studies track, to put an emphasis on performance in the Acting track, or to study the technical and design aspects of theatre in the Design/Technology track. The B.A. in Theatre is an audition only program. Students wanting to major in Theatre must select 1 of the 3 areas and audition in that area. Students will be assessed annually to demonstrate successful progress toward degree. Students not progressing will be removed from the program.

All students are invited to participate in University theatre productions and to take courses in theatre.

Program Requirements

In addition to the University general requirements, students seeking the B.A. in Theatre must meet the requirements listed below.

All course work included in the major must be accomplished with a minimum grade of "C".

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 280)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 280)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 280)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 280)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 280)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 280)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

THE 2000	The Theatre Experience *	3
THE 2300	Survey of Dramatic Literature	3
THE 2925	Play Production	1
TPA 2200	Technical Theatre	3
TPA 2290L	Technical Theatre Laboratory	1
THE, TPA, TPP prefix lower division electives		9
Choose one of the following:		1-3
TPP 2100	Acting for Non-majors	

TPP 2190	Rehearsal and Performance	
Total Hours		21-23

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement. 0-6

Total Hours		0-6
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Recommended:

TPP 1282	Voice and Movement for the Stage	3
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Major

Theatre Core:		22
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THE 3090	Theatrical Production & Performance (1 sh for 4 semesters) +	
THE 3112	History of Theatre I +	
THE 3113	History of Theatre II +	
THE 3306	Dramatic Literature II +	
TPP 3310	Play Directing +	
TPP 3650	Script Analysis +	
THE 4970	Senior Project +	

Choose one of the following Theatre Tracks:		18
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Performing Arts Track

TPA 2000	Design for the Theatre	
TPA 4504	Performing Arts Administration +	

Choose three of the following:

THE 3243	Musical Theatre History +	
THE 4260	Costume History +	
TPA 3601	Stage Management +	
TPP 3155	Acting II +	

Choose one of the following:

TPA 3020	Lighting Design I +	
TPA 3060	Scene Design I +	
TPA 4045	Costume Design I +	

Acting Track

TPA 2000	Design for the Theatre	
TPP 3121	Acting Improvisation +	
TPP 3155	Acting II +	
TPP 3221	Audition Techniques +	
TPP 3260	Acting for the Camera +	
TPP 4113	Acting III +	

Design Technology Track

Choose one of the following:

TPA 3344	Drafting for the Stage +	
THE 4260	Costume History +	

Choose two of the following:

TPA 3020	Lighting Design I +	
TPA 3060	Scene Design I +	
TPA 4045	Costume Design I +	

Choose one of the following:

TPA 4021C	Lighting Design II +	
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TPA 4046	Costume Design II +
TPA 4061	Scene Design II +
Choose two of the following:	
TPA 2248	Introduction to Stage Makeup
TPA 3223	Lighting Technology +
TPA 3230	Costume Construction +
TPA 3313	Scenic Technology +
TPA 3601	Stage Management +
TPA 4504	Performing Arts Administration +
<hr/>	
Total Hours	40

+ Courses included in the major GPA

Upper Division Electives

Student must complete sufficient 3000/4000 level electives to meet UWF's requirement of 48 sh in the upper division or complete all departmental requirements at the 3000/4000 level, whichever is greater. 8

Total Hours 8

Minors

Theatre

The Minor in Theatre requires 17 sh of theatre courses, which must include:

- 2 sh of Theatrical Production and Performance Laboratory
- One acting course
- 12 sh of approved upper division theatre courses

A grade of "C" or higher is required in all courses in the minor. The minor must be declared prior to the completion of two courses. Theatre majors may not earn this minor.

Theatre, Fine Arts

The Bachelor of Fine Arts Degree in Musical Theatre is a pre-professional degree in performance. The Musical Theatre program is for the serious student interested in building their vocal and acting performance. The student receives vocal training throughout the program and has the opportunity to build their skills through the course work and the departmental productions. This program is audition only. Students will be assessed annually to demonstrate successful progress toward degree. Students not progressing will be removed from the program.

Program Requirements

In addition to general University requirements, students seeking the BFA in Music Theatre must meet the requirements below:

- Maintain a GPA of 2.50 or higher
- A grade of 'C' or better is required in all Theatre Courses
- Audition for all UWF Theatre Productions

Required Prior to Admission to BFA:

- A 'B' or better in THE2000 or equivalent course
- A 'B' or better in TPP2110 or equivalent course

General Education

In addition to the General Education requirements listed on this page, students must satisfy all additional University requirements, including the Gordon Rule, multicultural, and foreign language requirements. With appropriate planning and coordination with an academic advisor, students may satisfy some of the general University requirements through the General Education curriculum. For a complete listing of general degree requirements, refer to the "Graduation and General Degree Requirements (p. 36)" section of this catalog.

General Education Curriculum:

Communication (p. 283)

ENC 1101	English Composition I	3
ENC 1102	English Composition II	3

Mathematics (p. 283)

Choose one course from Group A and one Additional course from either Group A or Group B 6

Group A

MAC 1105	College Algebra
MAC 2311	Analytic Geometry and Calculus I
MGF 1106	Mathematics for Liberal Arts I
MGF 1107	Mathematics for Liberal Arts II
STA 2023	Elements of Statistics

Group B

MAC 1114	Trigonometry
MAC 1140	Precalculus Algebra
MAC 2233	Calculus with Business Applications
MAC 2312	Analytic Geometry and Calculus II

Social Sciences (p. 283)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

AMH 2020	United States since 1877
ANT 2000	Introduction to Anthropology
ECO 2013	Principles of Economics Macro
POS 2041	American Politics
PSY 2012	General Psychology
SYG 2000	Introduction to Sociology

Group B

AMH 2010	United States to 1877
ANT 2400	Current Cultural Issues
ANT 2100	Introduction to Archaeology
CCJ 2002	Survey of Crime and Justice
CPO 2002	Comparative Politics
DEP 2004	Human Development Across the Lifespan
EUH 1000	Western Perspectives I
EUH 1001	Western Perspectives II
FIN 2104	Personal Financial Planning
GEA 2000	Nations and Regions of the World
GEB 1011	Introduction to Business
IDH 1041	Honors Core 2
INR 2002	International Politics
MMC 2000	Principles of Mass Communication
PLA 2013	Survey of American Law
SOW 2192	Understanding Relationships in the 21st Century
SYG 2010	Current Social Problems

Humanities (p. 283)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A

ARH 1000	Art Appreciation
LIT 2000	Introduction to Literature
MUL 2010	Music Appreciation
PHI 2010	Introduction to Philosophy
THE 2000	The Theatre Experience

Group B

AML 2072	Sex, Money, and Power in American Literature
ARH 2050	Western Survey I: Greek to Renaissance
ARH 2051	Western Survey II: Baroque to Contemporary
ART 1015C	Exploring Artistic Vision
ART 2821	Art and Visual Culture Today
IDH 1040	Honors Core 1
MUH 2930	The Music Experience: Special Topics
PHI 2103	Critical Thinking
PHI 2603	Ethics in Contemporary Society
REL 1300	World Religions
THE 2300	Survey of Dramatic Literature
SPC 2608	Basic Communication Skills

Natural Sciences (p. 283)

Choose one course from Group A and one additional course from either Group A or Group B 6

Group A	
AST 1002	Descriptive Astronomy
BSC 1005+L	General Biology for Non-Majors (+Lab)
BSC 1085	Anatomy and Physiology I
BSC 2010	Biology I
CHM 1020	Concepts in Chemistry *
CHM 2045	General Chemistry I *
ESC 2000	Introduction to Earth Science
EVR 2001	Introduction to Environmental Science
PHY 1020	Introduction to Concepts in Physics *
PHY 2048	University Physics I **
PHY 2048C	University Physics I - Studio
PHY 2053	General Physics I **

Group B	
ANT 2511	Biological Anthropology
BOT 2010	General Botany
BSC 1050	Fundamentals of Ecology
BSC 1086	Anatomy and Physiology II *
BSC 2011	Biology II
BSC 2311	Introduction to Oceanography and Marine Biology *
CGS 2060	Excursions in Computing
CHM 1032	Fundamentals of General Chemistry *
CHM 2046	General Chemistry II *
GEO 1200	Physical Geography
GLY 2010	Physical Geology *
MCB 1000	Fundamentals of Microbiology *
PHY 2049	University Physics II **
PHY 2054	General Physics II *

* May be taken with or without lab.

** General Physics is non-calculus based and is usually recommended for non-science majors. University Physics is calculus based and is usually recommended for science majors.

*** Although students receive 5 semester hours credit for PHY 2048C, an additional 3 semester science course will be needed to meet General Studies requirements.

General Education Electives

(p. 283)

Choose an additional course from two of the three areas of Humanities, Social Sciences and Natural Sciences

Common Prerequisites

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program. See the Common Prerequisite Manual (<https://www.flvc.org/partner-portal/common-prerequisite-manual>) for course substitutions from Florida colleges and universities.

THE 2000	The Theatre Experience *	3
THE 2300	Survey of Dramatic Literature	3
THE 2925	Play Production	1
TPA 2200	Technical Theatre	3
TPA 2290L	Technical Theatre Laboratory	1
THE, TPA, TPP prefix lower division electives		9
Choose one of the following:		1-3
TPP 2100	Acting for Non-majors	

TPP 2190	Rehearsal and Performance	
Total Hours		21-23

* Indicates common prerequisites which can be used to satisfy General Education requirements.

Lower Division Electives

Students must complete sufficient 1000/2000 level electives to satisfy at least 60 sh in the lower division. Current UWF students may use elective courses at any level (1000-4000) to meet this elective requirement.

Total Hours		0-6
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Major

Theatre Core: 15

THE 3112	History of Theatre I +
THE 3113	History of Theatre II +
TPA 2000	Design for the Theatre
TPP 3310	Play Directing +
TPP 3650	Script Analysis +

Acting Core: 12

TPP 1282	Voice and Movement for the Stage
TPA 2248	Introduction to Stage Makeup
TPP 3155	Acting II +
THE 3090	Theatrical Production & Performance ^{1, +}

Music Theatre Specialization: 33

TPP 2250	Music Theatre Fundamentals
TPP 2250L	Musical Theatre Vocal Theory Lab
TPP 3257	Musical Theatre Voice ^{2, +}
TPP 3221	Audition Techniques +
TPP 3121	Acting Improvisation +
TPP 4113	Acting III +
DAA 2000	Dance Fundamentals
DAA 3004 & 3005 & 3006	Dance Styles I and Dance Styles II and Dance Styles III ^{4, +}
THE 3243	Musical Theatre History +
TPP 3252C	Music Theatre Scene Study +
TPP 3250	Musical Theatre Performance +

Total Hours		60
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1 1 sh each taken for 4 semesters

2 1 sh each taken for 6 semesters

3 1 sh each taken for 2 semesters

4 1 sh each taken for 3 semesters

+ Courses included in the major GPA

Minors

Theatre

The Minor in Theatre requires 17 sh of theatre courses, which must include 2 sh of Theatrical Production and Performance Laboratory, one acting course, and 12 sh of approved upper division theatre courses. A grade of "C" or higher is required in all courses in the minor. The minor must be declared prior to the completion of two courses. Theatre majors may not earn this minor.

Associate of Arts

Associate in Arts (A.A.): General Degree Requirements

The general A.A. degree is available to students who have met the following requirements:

- Satisfied the requirements of UWF's General Education curriculum
- Completed at least 60 semester hours of course work
- Completed at least 30 semester hours of those 60 semester hours in residence at UWF. Eighteen semester hours of the 30 semester hours in residence must be taken from the list of UWF General Education courses (contact the First Year Advising Center Center for details)
- Fulfilled the Gordon Rule Writing and Mathematics requirements
- Have a UWF cumulative GPA of at least 2.0
- Completed the admissions foreign language requirement
- A degree will not be awarded for a student on academic probation or suspension
- A. A. degree candidates must be admitted and enrolled at UWF in a degree-seeking status within the last five years of the date the degree is awarded. Students should contact the First Year Advising Center to determine the minimum number of 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.

Students who meet these requirements do not automatically receive the A.A. degree. Students must apply for the degree in the First Year Advising Center (see Academic Calendar (p. 7) for submission deadlines). The A.A. degree will not be awarded in the same semester that the baccalaureate degree is awarded or in any semester following the completion of the baccalaureate degree.

Course Information

In this section:

- Course Descriptions (<http://catalog.uwf.edu/courseinformation/courses>)
- General Course Information (p. 286)
- Course Schedule by Semester (https://erpapp.banner.uwf.edu/PROD/bwckschd.p_disp_dyn_sched)
- Equipment Fees (p. 288)
- Material and Supply Fees (p. 291)

General Information

Florida Statewide Course Numbering System

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System (SCNS). This numbering system is used by all public postsecondary institutions in Florida and 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

Prefix	Level Code	Century Digit	Decade Digit	Unit Digit	Lab Code
	(first digit)	(second digit)	(third digit)	(fourth digit)	
ENC	1	1	0	1	
English Composition	Lower Level at this institution	Freshman Compositor	Freshman Compositor	Freshman Composition	No laboratory component in 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 fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure

that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

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

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

Courses at Nonregionally Accredited Institutions

The SCNS makes available on its home page (<http://scns.fldoe.org>) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to University of West Florida in the The office of the Registrar or to the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the SCNS office at (850) 245-0427 or at <http://scns.fldoe.org>.

How to Find Courses

Please consult the Course Descriptions (<http://catalog.uwf.edu/courseinformation/courses>) section of the catalog for specific course information.

Course Level

Lower Division Courses have a "1" or "2" as the first digit of the course number. Upper Division Courses have a "3" or "4" as the first digit of the course number.

Graduate Courses have a "5," "6," "7," or "8" as the first digit of the course number.

Classification of Courses

The University course numbering system is as follows:

Course Range	Open To
1000-2999	Freshman, sophomores, and non-degree students, unless otherwise noted
3000-4999	Open to freshmen, sophomores, juniors, seniors, and non-degree students
5000-5999	Open to all degree-seeking and non-degree graduate students. Juniors and seniors may register for 5000-level courses under certain conditions
6000-7999	Restricted to students enrolled in graduate programs and other post baccalaureate students who may be admitted at the discretion of the department chairperson. Non-degree students must have permission of the specific course instructor to register for 6000-level courses
8000-8999	Restricted to students enrolled in the doctoral program

Restricted Courses

Departments may restrict enrollment in specific courses to students in the major or other categories of students based on academic needs and requirements. These courses are noted in the online course search. Students should refer to the Registration Error Messages (<https://confluence.uwf.edu/display/public/Registration+Error+Messages>) guide if a registration error is encountered due to a course restriction.

Unassigned Course Numbers (XXX and —)

Courses listed in degree plans with XXX as the last three digits of a course number are pending assigned course numbers within the Statewide Common Course Numbering System. Information concerning these courses must be obtained from the offering department.

Hours

The number of credit hours follows each course listing. Directed study, internship, thesis, practicum, and some other courses are offered on a variable hours basis. For these courses, the minimum and maximum number of hours will be indicated. The number of hours will be determined in consultation with the instructor and advisor.

Semester Course Offered

Please consult the academic department offering a course for information concerning semester(s) in which a particular course is normally offered. Potential course offerings are subject to change based upon student enrollment, faculty availability, program changes, etc. Students should contact their advisor when developing schedules to ensure timely completion of prerequisites and courses required for graduation.

Course Prerequisites/Corequisites

It is the student's responsibility to review the prerequisite and corequisite requirements included as part of the course search. Refer to Searching for Courses (<https://confluence.uwf.edu/display/public/Searching+for+Course+Offerings>) for step-by-step instructions on how to search for a course and view the prerequisites and/or corequisites. For further information about prerequisites and corequisites, please contact the offering department and review the information found in the Registration Policies & Procedures (<http://catalog.uwf.edu/undergraduate/academicpolicies/registration/#courseprerequisites/corequisites>) section of this *Catalog*.

990-999 Course Numbers

Courses in the 990-999 series are not identified in the University catalog and are exceptions to the general rule for course equivalencies and may not be transferable. Transfer credit is at the discretion of the receiving institution. These courses are semester specific and may change in title, content, and credit hours.

Courses with Special Fees

Equipment Fees

Material and Supply Fees

Equipment Fees

Equipment fees are assessed by departments to offset the cost of significant equipment that is used to prepare students for their careers or professions and are used for instructional purposes only with direct use by students.

Anthropology

Course	Fee
ANG 6824**	\$100-200
ANT 4121*	\$150.00
ANT 4824*	\$100.00
ANT 4835*	\$200.00

*Summer course only. **Summer only course. Fees vary depending on use of terrestrial (\$100) or maritime (\$200) methods.

Art

Course	Fee
ART 2203C	\$30.00
ART 2400C	\$25.00
ART 2602C	\$35.00
ART 2701C	\$30.00
ART 3442C	\$25.00
ART 3613C	\$35.00

ART 3618C	\$35.00
ART 3630C	\$35.00
ART 3660C	\$35.00
ART 3714C	\$30.00
ART 3718C	\$30.00
ART 3737C	\$30.00
ART 3739C	\$30.00
ART 3760C	\$25.00
ART 3762C	\$25.00
ART 3769C	\$25.00
ART 4161C	\$25.00
ART 4461C	\$25.00
ART 4619C	\$35.00
ART 4632C	\$35.00
ART 4633C	\$35.00
ART 4712C	\$30.00
ART 4787C	\$25.00
GRA 2111C	\$35.00
PGY 2401C	\$25.00
PGY 3420C	\$25.00
PGY 3500C	\$25.00
PGY 4104C	\$25.00
PGY 4940C	\$25.00

Biology

Course	Fee
BCH 3033L	\$30.00
BOT 2010	\$25.00
BOT 2010L	\$35.00
BOT 4374	\$35.00
BOT 4374L	\$25.00
BOT 4404L	\$25.00
BOT 4503	\$35.00
BOT 4734	\$35.00
BOT 5376	\$35.00
BOT 5376L	\$25.00
BOT 5506	\$35.00
BOT 5735	\$35.00
BSC 1005L	\$25.00
BSC 1085L	\$32.00
BSC 1086L	\$24.00
BSC 2010L	\$25.00
BSC 2011L	\$35.00
BSC 2311L	\$35.00
BSC 6002L	\$35.00
MCB 1000L	\$25.00
MCB 3020	\$25.00
OCB 4104	\$15.00
OCB 5106	\$15.00
PCB 3063	\$25.00
PCB 3097L	\$5.00
PCB 3103L	\$25.00

PCB 3253	\$25.00
PCB 4043L	\$30.00
PCB 4048L	\$35.00
PCB 4098L	\$3.00
PCB 4233	\$25.00
PCB 4364L	\$35.00
PCB 4374	\$25.00
PCB 4524L	\$30.00
PCB 4723L	\$35.00
PCB 5235L	\$25.00
PCB 5319L	\$35.00
PCB 5344	\$25.00
PCB 5445L	\$35.00
PCB 5527L	\$30.00
PCB 5727L	\$35.00
ZOO 4254L	\$30.00
ZOO 4304	\$25.00
ZOO 4880C	\$25.00
ZOO 5881C	\$15.00

Chemistry

Course	Fee
CHM 1020L	\$23.00
CHM 1032L	\$22.00
CHM 2045L	\$23.00
CHM 2046L	\$25.00
CHM 2210L	\$25.00
CHM 2211L	\$25.00
CHM 3120L	\$25.00
CHM 3740L	\$25.00
CHM 3741L	\$25.00
CHM 3905	\$20.00
CHM 4905	\$20.00
CHM 4130L	\$25.00
CHM 4455L	\$25.00
CHM 4610L	\$25.00
CHM 4912	\$20.00

Clinical Laboratory Sciences

Course	Fee
MLS 4191	\$35.00
MLS 4220	\$15.00
MLS 4305	\$35.00
MLS 4334	\$35.00
MLS 4460	\$35.00
MLS 4462	\$25.00
MLS 4505	\$25.00
MLS 4550	\$18.00
MLS 4625	\$35.00
MLS 4630	\$35.00
MLS 4821L	\$14.00

Communication Arts

Course	Fee
RTV 3301	\$25.00
RTV 3511	\$25.00
RTV 3942	\$25.00

Computer Science

Course	Fee
CAP 4053	\$29.00
CAP 4601	\$29.00
CAP 4770	\$5.00
CAP 5600	\$29.00
CAP 5771	\$5.00
CEN 4078	\$26.00
CEN 6095	\$9.00
CGS 3183	\$9.00
CIS 4385	\$9.00
CNT 4014C	\$9.00
COP 3014	\$9.00
COP 3530	\$9.00
COP 3665	\$17.00
COP 3813	\$15.00
COP 4027	\$9.00
COP 4634	\$9.00
COP 4635	\$9.00
COP 4710	\$5.00
COP 4856	\$9.00
COP 4857	\$9.00
COP 4990	\$26.00
COP 5725	\$9.00
CTS 4817	\$9.00

Electrical & Computer Engineering

Course	Fee
EEE 4306L	\$25.00
EEE 4308L	\$25.00
EEL 3117L	\$25.00
EEL 3701L	\$25.00
EEE 4310	\$35.00
EEL 4514L	\$25.00
EEL 4657L	\$25.00
EEL 4663	\$25.00
EEL 4712L	\$25.00
EEL 4744L	\$25.00
EEL 4930	\$35.00
EGN 4952L	\$25.00

Earth and Environmental Studies

Course	Fee
EVS 4192C	\$30.00
EVS 6196C	\$25.00
GEO 1200L	\$25.00

GEO 3210L	\$25.00
GEO 3250L	\$25.00
GEO 3260	\$35.00
GEO 3260L	\$25.00
GEO 4164	\$25.00
GEO 4221L	\$25.00
GEO 4280L	\$25.00
GEO 5165	\$25.00
GEO 5225L	\$25.00
GIS 3015L	\$25.00
GIS 4035L	\$25.00
GIS 4043L	\$25.00
GIS 4048	\$13.00
GIS 4102	\$25.00
GIS 4930	\$16.00
GIS 5100	\$8.00
GIS 5103	\$4.00
GIS 5935	\$10.00
GLY 2010L	\$25.00
GLY 3031C	\$25.00

Exercise Science & Community Health

Course	Fee
APK 3232	\$25.00
APK 4200	\$25.00
APK 4600	\$25.00
APK 5204	\$25.00
ATR 2010	\$25.00
APK 3110L	\$25.00
APK 4114C	\$25.00
APK 4125L	\$25.00
APK 4119	\$25.00
APK 4163	\$25.00
ATR 4314	\$25.00
ATR 3132	\$25.00
HSC 4104	\$25.00
HSC 4300	\$25.00
HSC 4572	\$25.00
PET 4310C	\$25.00
PET 5389C	\$25.00
PET 5553	\$25.00
PET 5626	\$25.00
PET 6074	\$25.00

Instructional, Workforce and Applied Technology

Course	Fee
CET 3135	\$15.00
EET 3038C	\$15.00
EET 3218C	\$15.00
EET 3321C	\$15.00
EET 4356C	\$15.00

EET 4941	\$15.00
EST 4538	\$15.00

Legal Studies, Public Administration and Sport Management

Course	Fee
HLP 3300	\$25.00

Music

Course	Fee
MVB 1311	\$25.00
MVB 1312	\$25.00
MVB 1313	\$25.00
MVB 1314	\$25.00
MVB 1315	\$25.00
MVB 2321	\$25.00
MVB 2322	\$25.00
MVB 2323	\$25.00
MVB 2324	\$25.00
MVB 2325	\$25.00
MVB 3331	\$25.00
MVB 3332	\$25.00
MVB 3333	\$25.00
MVB 3334	\$25.00
MVB 3335	\$25.00
MVB 3970	\$25.00
MVB 4341	\$25.00
MVB 4342	\$25.00
MVB 4343	\$25.00
MVB 4344	\$25.00
MVB 4345	\$25.00
MVB 4971	\$25.00
MVK 1311	\$25.00
MVK 1313	\$25.00
MVK 1412	\$25.00
MVK 2223	\$25.00
MVK 2421	\$25.00
MVK 2422	\$25.00
MVK 3333	\$25.00
MVK 3431	\$25.00
MVK 3432	\$25.00
MVK 3970	\$25.00
MVK 4343	\$25.00
MVK 4441	\$25.00
MVK 4442	\$25.00
MVK 4971	\$25.00
MVP 1311	\$25.00
MVP 2321	\$25.00
MVP 3331	\$25.00
MVP 3970	\$25.00
MVP 4341	\$25.00
MVP 4971	\$25.00

MVS 1311	\$25.00
MVS 1312	\$25.00
MVS 1313	\$25.00
MVS 1314	\$25.00
MVS 1316	\$25.00
MVS 2321	\$25.00
MVS 2322	\$25.00
MVS 2323	\$25.00
MVS 2324	\$25.00
MVS 2326	\$25.00
MVS 3331	\$25.00
MVS 3332	\$25.00
MVS 3333	\$25.00
MVS 3334	\$25.00
MVS 3336	\$25.00
MVS 3970	\$25.00
MVS 4341	\$25.00
MVS 4342	\$25.00
MVS 4343	\$25.00
MVS 4344	\$25.00
MVS 4346	\$25.00
MVS 4971	\$25.00
MVV 1311	\$25.00
MVV 2421	\$25.00
MVV 3331	\$25.00
MVV 3431	\$25.00
MVV 3970	\$25.00
MVV 4341	\$25.00
MVV 4441	\$25.00
MVV 4971	\$25.00
MVW 1311	\$25.00
MVW 1312	\$25.00
MVW 1313	\$25.00
MVW 1314	\$25.00
MVW 1315	\$25.00
MVW 2321	\$25.00
MVW 2322	\$25.00
MVW 2323	\$25.00
MVW 2324	\$25.00
MVW 2325	\$25.00
MVW 3331	\$25.00
MVW 3332	\$25.00
MVW 3333	\$25.00
MVW 3334	\$25.00
MVW 3335	\$25.00
MVW 3970	\$25.00
MVW 4341	\$25.00
MVW 4342	\$25.00
MVW 4343	\$25.00
MVW 4344	\$25.00
MVW 4345	\$25.00
MVW 4971	\$25.00

Nursing

Course	Fee
NUR 3990	\$35.00

Physics

Course	Fee
AST 1002	\$22.00
PHY 1020L	\$22.00
PHY 2048L	\$22.00
PHY 2049L	\$22.00
PHY 2053L	\$22.00
PHY 2054L	\$22.00
PHY 3106L	\$25.00
PHY 3905	\$25.00
PHY 4905	\$25.00
PHY 4910	\$25.00

Material and Supply Fees

Material and supply fees are assessed for certain courses to offset the cost of materials or supply items consumed in the course of instruction.

Anthropology

Course	Fee
ANG 6824	\$48.00
ANT 4121	\$48.00
ANT 4824	\$48.00
ANT 4835	\$48.00

Art

Course	Fee
ARE 3313C	\$48.00
ARE 3314C	\$48.00
ARE 4316C	\$48.00
ART 1015C	\$24.00
ART 1300C	\$48.00
ART 1301C	\$48.00
ART 2201C	\$45.00
ART 2203C	\$48.00
ART 2400C	\$48.00
ART 2500C	\$48.00
ART 2602C	\$48.00
ART 2701C	\$48.00
ART 3213C	\$48.00
ART 3312C	\$48.00
ART 3313C	\$48.00
ART 3442C	\$48.00
ART 3504C	\$48.00
ART 3507C	\$48.00
ART 3613C	\$48.00
ART 3618C	\$48.00
ART 3630C	\$48.00
ART 3660C	\$48.00

ART 3714C	\$48.00
ART 3718C	\$48.00
ART 3737C	\$48.00
ART 3739C	\$48.00
ART 3760C	\$48.00
ART 3762C	\$48.00
ART 3769C	\$48.00
ART 4161C	\$48.00
ART 4332C	\$48.00
ART 4333C	\$48.00
ART 4386C	\$48.00
ART 4461C	\$48.00
ART 4619C	\$48.00
ART 4632C	\$48.00
ART 4633C	\$48.00
ART 4712C	\$48.00
ART 4787C	\$48.00
GRA 2111C	\$48.00
GRA 2208C	\$35.00
GRA 3102C	\$25.00
GRA 3112C	\$20.00
GRA 4930C	\$48.00
GRA 4940L	\$48.00
GRA 4950C	\$48.00
PGY 2401C	\$48.00
PGY 3420C	\$48.00
PGY 3500C	\$48.00
PGY 4104C	\$48.00
PGY 4823	\$48.00
PGY 4940C	\$48.00

Biology

Course	Fee
BCH 3033L	\$48.00
BOT 2010L	\$34.00
BOT 4374L	\$24.00
BOT 4404L	\$30.00
BOT 4503L	\$29.00
BOT 4734L	\$48.00
BOT 5376L	\$24.00
BOT 5506L	\$29.00
BOT 5735L	\$48.00
BSC 1005L	\$24.00
BSC 1085L	\$48.00
BSC 1086L	\$48.00
BSC 2010L	\$48.00
BSC 2011L	\$43.00
BSC 2311L	\$29.00
BSC 6002L	\$37.00
MCB 1000L	\$48.00
MCB 3020L	\$45.00
PCB 3063L	\$39.00

PCB 3097L	\$48.00
PCB 3103L	\$48.00
PCB 3253L	\$25.00
PCB 4043L	\$13.00
PCB 4048L	\$48.00
PCB 4098L	\$47.00
PCB 4233L	\$48.00
PCB 4364L	\$48.00
PCB 4442L	\$25.00
PCB 4524L	\$48.00
PCB 4723L	\$48.00
PCB 5235L	\$48.00
PCB 5319L	\$48.00
PCB 5445L	\$48.00
PCB 5446L	\$25.00
PCB 5527L	\$48.00
PCB 5727L	\$48.00
ZOO 3556	\$48.00
ZOO 4254L	\$48.00
ZOO 4304L	\$35.00
ZOO 4880C	\$27.00
ZOO 5305L	\$35.00
ZOO 5881C	\$27.00

Chemistry

Course	Fee
CHM 1020L	\$48.00
CHM 1032L	\$48.00
CHM 2045L	\$48.00
CHM 2046L	\$48.00
CHM 2210L	\$48.00
CHM 2211L	\$48.00
CHM 3120L	\$48.00
CHM 3740L	\$48.00
CHM 3741L	\$48.00
CHM 4130L	\$25.00
CHM 4455L	\$48.00
CHM 4610L	\$48.00
CHM 5134L	\$25.00

Clinical Laboratory Sciences

Course	Fee
MLS 4191L	\$48.00
MLS 4220L	\$19.00
MLS 4305L	\$48.00
MLS 4334L	\$48.00
MLS 4460L	\$48.00
MLS 4462L	\$48.00
MLS 4505L	\$48.00
MLS 4550L	\$48.00
MLS 4625L	\$48.00
MLS 4630L	\$48.00

Communication Arts

Course	Fee
ADV 2214	\$15.00
ADV 3213	\$15.00
JOU 2100	\$4.00

Electrical and Computer Engineering

Course	Fee
EEE 4306L	\$16.00
EEE 4308L	\$10.00
EEL 3117L	\$32.00
EEL 3701L	\$48.00
EEL 4514L	\$14.00
EEL 4657L	\$5.00
EEL 4663	\$16.00
EEL 4712L	\$19.00
EEL 4744L	\$24.00
EEL 4930	\$39.00
EGN 4952L	\$27.00

Music

Course	Fee
MUE 3210	\$8.00
MUN 1310	\$15.00
MUN 1360	\$15.00
MUN 2210	\$15.00
MUN 3133	\$15.00
MUN 3213	\$15.00
MUN 3313	\$15.00
MUN 3363	\$15.00
MUN 3483	\$15.00
MUN 3713	\$15.00
MUN 4411	\$15.00
MUN 4714	\$15.00
MUS 2360	\$19.00

Physics

Course	Fee
PHY 3106L	\$15.00
PHY 4910	\$15.00
PHY 2048L	\$13.00
PHY 2049L	\$14.00
PHY 2053L	\$13.00
PHY 2054L	\$14.00

Psychology

Course	Fee
PCO 6315	\$25.00

Social Work

Course	Fee
SOW 3503	\$11.00

SOW 4510	\$11.00
SOW 5532	\$11.00
SOW 6535	\$11.00
SOW 6536	\$11.00

Teacher Education & Educational Leadership

Course	Fee
MAE 4310	\$47.00
SCE 4310	\$47.00

Theatre

Course	Fee
THE 2925	\$40.00
THE 3090	\$40.00
TPA 2248	\$18.00
TPA 2290L	\$23.00
TPA 3230	\$25.00
TPA 4077	\$28.00
TPP 2190	\$40.00

Descriptions

ACG - Accounting: General Courses

ACG 2021 Principles of Financial Accounting
3 sh (may not be repeated for credit)

Introduction to financial accounting as an information and decision support system for users of financial information.

ACG 2071 Principles of Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021

Role of accounting as a tool in decision making process within economic framework of the firm.

ACG 3082 Accounting for Non-Majors
3 sh (may not be repeated for credit)

Coverage of financial, managerial, and cost accounting topics with an emphasis on uses of accounting information; available to non-business majors only.

ACG 3101 Intermediate Financial Accounting I
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570

Accounting principles and financial accounting practices. Particular emphasis on analysis of balance sheet accounts through problem solving.

ACG 3111 Intermediate Financial Accounting II
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101 AND FIN 3403

Continuation of ACG 3101.

ACG 3172 Financial Accounting Topics
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Explain/analyze complexities of leases, pensions, income taxes, long-term debt, long-term investments, stockholders' equity, accounting changes, and other financial components from a financial statement user perspective. Available to non-accounting majors only.

ACG 3180 Financial Statement Analysis
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Introduction to the study of financial statements, including interpreting accounting data and analyzing financial statements. Cross listed with FIN 3461.

ACG 3311 Applied Managerial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2021 AND ACG 2071

Gives students an opportunity to have basic business decision making skills on accounting information. Students will analyze cases involving various business situations. Topic areas to be covered include financial statement analysis, cost-volume-profit analysis, budgeting, performance evaluation, and special decision making. Available to non-accounting majors only.

ACG 3343 Cost Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND CGS 2570

Provides students with the skills to prepare accounting information for use in the management decision making process. Contains material on accounting system design, budgeting, standard costing, direct costing, performance evaluation, and use of accounting information.

ACG 3401 Accounting Information Systems
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101

Design of systems to capture, process and report accounting information.

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

ACG 3949 Cooperative Education
1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation, confirming educational and career goals, personal and professional development, early start in career, earnings toward self-support, and improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of the director of Cooperative Education is required.

ACG 4151 Accounting Theory
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Critical evaluation of broad framework of financial accounting theory.

ACG 4174 Special Topics in Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101

Provides exposure to recent issues and developments in financial accounting and the more significant areas that are of continuing interest. Offered concurrently with ACG 5807; graduate students will be assigned additional work. derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with ACG 5807; graduate students will be assigned additional work.

ACG 4201 Advanced Financial Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with ACG 5205; graduate students will be assigned additional work.

ACG 4501 Governmental and Non-Profit Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with ACG 5658; graduate.

ACG 4651 Auditing

3 sh (may not be repeated for credit)

Prerequisite: ACG 3111 AND ACG 3401

Philosophy of financial auditing by public accountant; techniques and procedures to investigate and appraise accounting systems and financial statements; types of opinions, current literature, and official pronouncements; ethical and legal implications.

ACG 4682 Forensic Accounting

3 sh (may not be repeated for credit)

Prerequisite: ACG 3101

The purpose is to acquaint the student with both the pervasiveness of and the causes of financial fraud in our society, and to explore in detail the methods in which financial fraud is perpetrated.

ACG 4905 Directed Study

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

ACG 4941 Accounting Internship

1-6 sh (may not be repeated for credit)

Prerequisite: ACG 3101

Supervised field practicum in accounting-related position. May include activities in professional accounting, accounting information systems, or controllership. Graded on satisfactory / unsatisfactory basis only. Permission is required.

ACG 5205 Advanced Financial Accounting

3 sh (may not be repeated for credit)

Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations and partnerships. Offered concurrently with ACG 4201; graduate students will be assigned additional work.

ACG 5255 International Accounting

3 sh (may not be repeated for credit)

Provides a broad perspective on international accounting and reporting issues facing multinational corporations. Addresses International Financial Reporting Standards (IFRS), global harmonization and convergence of standards, accounting for foreign currency transactions, translation of foreign currency financial statements, and other foreign financial reporting issues.

ACG 5658 Governmental and Non-Profit Accounting

3 sh (may not be repeated for credit)

Principles of financial accounting and reporting for governmental and nonprofit organizations. Offered concurrently with ACG 4501; graduate students will be assigned additional work.

ACG 5807 Special Topics in Accounting

3 sh (may not be repeated for credit)

Provides exposure to recent issues and developments in financial accounting and the more significant traditional areas that are of continuing interest. Derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with ACG 4174; graduate students will be assigned additional work.

ACG 5905 Directed Study

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

ACG 6308 Advanced Managerial Accounting

3 sh (may not be repeated for credit)

Management control and behavior, control structures, responsibility accounting, cost / profit / investment centers, budgets and performance evaluation, control of projects, control in service, and non-profit organizations.

ACG 6309 Accounting Aspects of Business Policy Determination

3 sh (may not be repeated for credit)

Budgeting, profit planning and controlling aspects of business policy determination. Available to non-accounting majors only.

ACG 6405 Advanced Accounting Information Systems

3 sh (may not be repeated for credit)

A seminar for the study of contemporary accounting system topics with an emphasis on internal controls. Primary emphasis is placed on an accounting system design project. Must have completed ACG 3401 or equivalent with C (2.0) or better to enroll.

ACG 6805 Seminar in Financial Accounting

3 sh (may not be repeated for credit)

A blend of traditional and contemporary accounting issues with focus on the development of financial accounting theory, the relationship of theory and research to standard setting, and discussion of current accounting standards. Examines the objectives, measurement models, controversies, and philosophy of financial accounting.

ACG 6856 Advanced Auditing

3 sh (may not be repeated for credit)

This course is designed to broaden students' conceptual and technical understanding of attestation services, assurance services, and services related to unaudited financial statements. The course includes research, interpretation, and application of current professional standards for auditing, assurance, review, and compilation services that are performed in industry, governmental, nonprofit, and international environments.

ACG 6905 Directed Study

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

ADE - Adult Education Courses**ADE 5905 Directed Study**

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

ADV - Advertising Courses**ADV 2214 Advertising Graphics I**

3 sh (may not be repeated for credit)

Provides an introduction to the use of computers in the communication professions. Students will get "hands-on" experience using selected Adobe Creative Suite applications (Photoshop, Illustrator, and InDesign) for advertising and publication design on a Mac platform. Some basic design principles will be introduced along with the use of software. Acceptable prerequisite for advanced computer-based Communication Arts courses. Course restricted to students in the Major or Minor in Communication Arts.

ADV 3000 Introduction to Advertising

3 sh (may not be repeated for credit)

Advertising as an institution, strategy development, and creative execution in the advertising media. Provides a basic understanding of the advertising process, advertising's role in society, its procedures and practices.

ADV 3101 Creative Strategy & Tactics I
3 sh (may not be repeated for credit)
Prerequisite: ADV 2214 AND ADV 3000

Covers the strategy, conceptualization, and execution of effective advertising. Professional advertising writing and art direction for both print and broadcast will be addressed. Familiarity with desktop publishing, especially Adobe Creative Suite is required.

ADV 3213 Advertising Graphics II
3 sh (may not be repeated for credit)
Prerequisite: ADV 2214

Addresses professional publication design theory and practice. Subjects include magazine, newsletter, collateral, and brochure design. Design topics include: typography, grids, graphics, paper, color, and identity. Commercial and desktop publishing are incorporated from a designer's viewpoint. Familiarity with desktop publishing, especially Adobe Creative Suite and Macintosh platform is required. Credit may not be received in both ADV 3213 and ADV 3213C.

ADV 3300 Advertising Media
3 sh (may not be repeated for credit)
Prerequisite: ADV 3000

Analysis and evaluation of advertising media, market analysis, media planning, media strategies, discussions, and costs. Credit may not be received in both ADV3300 and ADV 3300C.

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

ADV 4202 Creative Strategy and Tactics II
3 sh (may not be repeated for credit)
Prerequisite: ADV 3101

Advanced creative direction theory and execution. Course will build professional level portfolio. Students will learn how to find a job opening, create job search materials (including an advertising portfolio), acquire the skills needed to apply and interview for a job, and learn how to successfully negotiate getting hired. Students will also gain valuable experience learning to rely on themselves, and their own resourcefulness to succeed in class and life.

ADV 4801 National Student Advertising Competition
3 sh (may be repeated for up to 6.000 sh of credit)

Preparation for American Advertising Federation competition. Student agency prepares complete campaign, including: market research and segmentation, media and promotion plans, strategy, creation, and presentation. Professional standards stressed. Permission is required. Credit may be received in ADV 4801 and ADV 4801C up to 6 sh.

ADV 4802 Integrated Communication-Campaigns
3 sh (may not be repeated for credit)
Prerequisite: ADV 3101

The capstone experience for advertising and public relations majors. Prepare complete integrated communication campaign, including: research, strategy, design, copy, and presentation to client. Senior major or minor status in advertising or public relations required.

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

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

AFH - African History Courses

AFH 4503 Africans in the Atlantic World
3 sh (may not be repeated for credit)

Africans comprised roughly two-thirds of 12 million migrants to the Americas between the 15th and 19th centuries. Course examines their experiences and their descendants in the making of the Atlantic world. Surveys critical time periods, institutions, individuals, and events, in the development of Creole societies throughout the Atlantic littoral. Emphasis placed on the construction of a "black Atlantic" identity among Africans and African-descended people throughout the Atlantic world. Special attention is paid to the history of West Africa. Story is told from an African point of view.

AFR- Air Force: Aerospace Stud Courses

AFR 1000 Air Force ROTC Physical Training
0 sh (may not be repeated for credit)

A mandatory course for all AFROTC students. The purpose is to enhance the fitness level of cadets and prepare them to meet AFROTC and Air Force standards, motivate cadets to pursue a physically fit and active lifestyle, improve both the safety and efficiency of physical training within AFROTC. AFROTC-sponsored PT activities include, but are not limited to, conditioning exercises, calisthenics, 1.5 mile run (PFT), Warrior Runs, etc. The Cadet PT program is an essential component of Leadership Laboratory. In order to successfully complete the PT portion of Leadership Laboratory, cadets must meet the attendance requirements IAW AFROTCI 36-2017, paragraph 1.

AFR 1101 The Foundations of the United States Air Force I
1 sh (may not be repeated for credit)

Study of the Air Force in the contemporary world. Examines the U.S. Air Force mission and organization, officership and professionalism, military customs and courtesies, and an introduction to community skills. Leadership laboratory activities are included.

AFR 1101L The Foundations of the United States Air Force I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 1101

Corresponding lab for The Foundations of the United States Air Force I.

AFR 1112 The Foundations of the United States Air Force II
1 sh (may not be repeated for credit)

Introduces Air Force core values and offers the student an opportunity to learn about leadership, its principles, and its effective traits. The course discusses Air Force heritage and legacy. Students are also introduced to basic oral and written communication skills. The course continues by exploring war, its basic principles, and motivation. The course concludes with an understanding of the Air Force oath of office and how human relations can affect them as an Air Force Officer. Leadership laboratory is mandatory for AFROTC contract / pursuing cadets and complements this course by providing cadets with followership experiences.

AFR 1112L The Foundations of the United States Air Force II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 1112

AFR 2130 The Evolution of USAF Air and Space Power I
1 sh (may not be repeated for credit)

Study of the component of air and space power from balloons and dirigibles up to the Korean Conflict. Students will be introduced to the Air Force methods of effective communication. Leadership laboratory activities are included.

AFR 2130L The Evolution of USAF Air and Space Power I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 2130

AFR 2132 The Evolution of USAF Air and Space Power II
1 sh (may not be repeated for credit)

Study of air and space power following the Korean War. Course deals with the peaceful employment of U.S. air power in relief missions and civic actions program in the late 1960s and the air war in South Asia. It also covers the buildup of air power during the 1980s and the changes brought about by Desert Storm. Leadership laboratory activities include preparation for field training.

AFR 2132L The Evolution of USAF Air and Space Power II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 2132

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

AFR 3221 Air Force Leadership and Management I
3 sh (may not be repeated for credit)

Integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivation and behavioral processes, leadership, ethics, communication, and group dynamics provide a foundation for the development of the junior officer's professional skills as an Air Force officer. The basic managerial processes involving decision-making, and the use of analytic aids in planning, organization, and controlling in a changing environment are emphasized. Laboratory provides opportunities for practical application of leadership skills.

AFR 3221L Air Force Leadership and Management I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 3221

Corresponding lab for AFR 3221.

AFR 3232 Air Force Leadership and Management II
3 sh (may not be repeated for credit)

Organizational and personal values, quality management of forces in change, organizational power, politics, managerial strategy and tactics, military justice, and administrative laws are discussed within the context of the military organization. Actual Air Force cases are used to enhance the learning and communication processes. Leadership laboratory included.

AFR 3232L Air Force Leadership and Management II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 3232

Corresponding lab for Air Force Leadership and Management II.

AFR 4211 National Security Forces in Contemporary American Society I
3 sh (may not be repeated for credit)

Focuses on the Armed Forces as an integral element of society. Emphasizes the broad range of American civil-military relations, the environmental context in which U.S. defense policy is formulated and implemented, the societal attitudes toward the military, and the role of the professional military leader-manager in a democratic society. Each student prepares individual and group presentations for the class, writes reports, and participates in group discussions and seminars. Laboratory provides opportunities for practical application of leadership skills.

AFR 4211L National Security Forces in Contemporary American Society I Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 4211

Corresponding lab for National Security Forces in Contemporary American Society I.

AFR 4214 National Security Forces in Contemporary American Society II
3 sh (may not be repeated for credit)

Stresses the fundamental values and socialization process associated with the Armed Services; the requisites for maintaining adequate national security forces; the political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; and the manifold variables involved in the formulation and implementation of national policy. Leadership laboratory included.

AFR 4214L National Security Forces in Contemporary American Society II Lab
0 sh (may not be repeated for credit)
Co-requisite: AFR 4214

Corresponding lab for National Security Forces in Contemporary American Society II.

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

AMH - American History Courses

AMH 2010 United States to 1877
3 sh (may not be repeated for credit)

Survey of the United States history beginning with Native American cultures on the eve of colonization through the end of Reconstruction. Examines political, economic, and social developments. General Education: Social Science - Historical Perspectives.

AMH 2020 United States since 1877
3 sh (may not be repeated for credit)

Survey of the United States history beginning in 1877 and ending with a discussion of America in the present era. Examines political, economic, and social developments. General Education: Social Science - Historical Perspectives.

AMH 3540 American Military History
3 sh (may not be repeated for credit)

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

AMH 4103 Southern Frontier
3 sh (may not be repeated for credit)

This course examines the interaction of the various and numerous peoples occupying the Southeastern frontier from the Restoration to the U. S. Civil War.

AMH 4111 Colonial America
3 sh (may not be repeated for credit)

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

AMH 4131 American Revolutions, 1763-1828
3 sh (may not be repeated for credit)

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

AMH 4140 Early American Republic
3 sh (may not be repeated for credit)

This course examines the major issues, events, and figures that defined the early American republic, the formative period of American history from the American Revolution to the War of 1812. All aspects of the early republic will be covered -- social, cultural, economic, political, constitutional, diplomatic, military, and biographical.

AMH 4144 The Era of Good Feelings
3 sh (may not be repeated for credit)

This course examines the major issues, events, and figures that defined the years between the end of the War of 1812 and the election of Andrew Jackson in 1828. All aspects of the "Era of Good Feelings" will be covered -- social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 4150 Early American Republic: 1789-1860
3 sh (may not be repeated for credit)

Political, social, and economic history of the United States emphasizing Jeffersonian and Jacksonian influences on American life and thoughts, sectionalism, and westward expansion.

AMH 4153 Lewis and Clark: Corps of Discovery 3
3 sh (may not be repeated for credit)

Students in this course will research and experience the travels of Meriwether Lewis, William Clark, and the Corps of Discovery from its inception with Thomas Jefferson through its travels from 1803 to 1806, and its impact on the development of the United States to the present. Offered concurrently with HIS 5156; graduate students will have additional work.

AMH 4160 Jacksonian America
3 sh (may not be repeated for credit)

Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered - social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 4202 From Stalin to Star Wars: The Cold War and American Culture
3 sh (may not be repeated for credit)

Progression and complexities of the Cold War through both global and domestic arenas, from the rise of Communism to the collapse of the Soviet Union.

AMH 4272 Cold War and Film
3 sh (may not be repeated for credit)

Period films are used to learn about the Cold War and its effect on the course of events in United States history as well as its influence on aspects of American culture. Classes conducted through a combination of lectures, film screenings, and discussions as well as with individual and group projects.

AMH 4420 History of Florida
3 sh (may not be repeated for credit)

Pre-Columbian to present; social, economic, and political development.

AMH 4427 Florida Panhandle History
3 sh (may not be repeated for credit)

Exposes students to the diverse history of that section of Florida bounded in the west by the Perdido River and in the east by the Apalachicola River - the Florida Panhandle.

AMH 4442 The American West
3 sh (may not be repeated for credit)

History of the American West from the Louisiana Purchase in 1803 to the present.

AMH 4460 Urban History
3 sh (may not be repeated for credit)

United States urban development from the period of colonization through the present. Applies both traditional and public history techniques.

AMH 4551 U. S. Constitutional and Legal History (to 1877)
3 sh (may not be repeated for credit)

A comprehensive examination of the development of the U.S. constitutional and legal system from the colonial period through Reconstruction. Although the history of the U.S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the legal system during the antebellum period - and the larger political, social, and economic forces surrounding and influencing this development - are given greater weight.

AMH 4552 U. S. Constitutional and Legal History (Since 1877)
3 sh (may not be repeated for credit)

A comprehensive examination of the development of the U. S. constitutional and legal system from Reconstruction to the present day. Although the history of the U. S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the states in the making and development of the constitutional and legal system during the modern period of U. S. history - and the larger political, social, and economic forces surrounding and influencing the development - are given greater weight.

AMH 4575 Civil Rights
3 sh (may not be repeated for credit)

U.S. civil rights movement from its roots in the nineteenth century to the present.

AMH 4644 Civil Rights and Hollywood
3 sh (may not be repeated for credit)

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

AMH 4694 North American Seafaring
3 sh (may not be repeated for credit)

Explores the history of North American seafaring from the pre-Columbian era through the twentieth century.

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

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

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

AMH 5169 Jacksonian America
3 sh (may not be repeated for credit)

This course examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered -- social, cultural, economic, political, constitutional, diplomatic, and military. Offered concurrently with AMH 4160; graduate students will be assigned additional work.

AMH 5277 Cold War and Film
3 sh (may not be repeated for credit)

Period films are used to learn about the Cold War and its affect on the course of events in U.S. history as well as its influence on aspects of American culture. Classes conducted through a combination of lectures, film screenings, and discussions as well as with individual and group projects. Offered concurrently with AMH 4272; graduate students are assigned additional work.

AMH 5646 Civil Rights and Hollywood
3 sh (may not be repeated for credit)

Through this Public History graduate course, we will use period films and television to explore the Civil Rights Movement and its effect on the course of events in United States history as well as its influence on aspects of American culture. We will conduct classes through a combination of lectures, film screenings, and discussions, as well as with individual and group projects. Offered concurrently with AMH 4644 graduate students will be assigned additional work.

AMH 6116 Colonial America
3 sh (may not be repeated for credit)

Seminar explores the major historiographical trends in Colonial American history (1585-1776). The course is more thematic than comprehensive and stresses breadth rather than depth.

AMH 6117 Seminar: History of The Atlantic World
3 sh (may not be repeated for credit)

This course explores the history of the Atlantic world from 1400-1800, with a special focus on the impact of Atlantic studies on the study of early American history.

AMH 6137 American Revolution
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 Early Republic
3 sh (may not be repeated for credit)

This course examines the major issues, events, and figures that defined the early American republic, the formative period of American history from the American Revolution to the War of 1812. All aspects of the early republic will be covered -- social, cultural, economic, political, constitutional, diplomatic, military, and biographical.

AMH 6347 Materials Culture
3 sh (may not be repeated for credit)

Course Description: This course examines the use of material culture as a form of historical research. The objects people used are just as important as the documents they wrote, and reveal much about the past. Utilizing primary documents as well as material culture, students will expand on traditional research methodologies to incorporate the use of material objects to understand history.

AMH 6439 Seminar: The Southern Frontier
3 sh (may not be repeated for credit)

Research seminar focusing on the U.S. Southeastern frontier from 1750-1850.

AMH 6557 Constitutional and Legal History
3 sh (may not be repeated for credit)

This course provides a comprehensive examination of the development of the U. S. constitutional system from the colonial period through Reconstruction. Although the history of the U. S. Supreme Court plays an integral role in this course, constitutional history transcends the mere study of great cases and judicial decisions; the preeminent role of the president, congress, and the states in the making and development of the constitutional system during the antebellum period.

AMH 6696 Seafaring in North America
3 sh (may not be repeated for credit)

Explores the history of North American seafaring from the pre-Columbian era through the twentieth century.

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

AML - American Literature Courses

AML 2010 American Literature I

3 sh (may not be repeated for credit)

Survey of major American literature from colonial times to the Civil War. Primarily for English majors and minors.

AML 2020 American Literature II

3 sh (may not be repeated for credit)

Survey of major American literature from the Civil War to the present. Primarily for English majors and minors.

AML 2072 Sex, Money, and Power in American Literature

3 sh (may not be repeated for credit)

From the days of Columbus, who came to the New World seeking fame and gold, to the era of Sex and the City, America has seen its share of sex scandals, political corruption, and war. What this suggests is that there have always been two different "Americas": the one of our dreams and the one that forever disappoints us. This course explores these two Americas through literary study. General Education: Humanities - Literature. Gordon Rule: Writing.

AML 2905 Directed Study

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

AML 3604 African American Literature

3 sh (may not be repeated for credit)

This is a discussion and collaborative group work course in which literary texts from various genres including slave narratives, dramas, short stories, novels, poetry, and the nonfiction essay will be used to reveal how complicit the factors of race, gender, sexuality, nationality, class, and the "divided self" are in the African-American experience. Attendance and participation in the interactive classroom discussions and in in-class and out-of-class group work are crucial to a student's success in the class. Meets Multicultural Requirement.

AML 3624 Black Women Writers

3 sh (may not be repeated for credit)

Poetry, drama, and prose of black women writers in America. Emphasis on works from the Harlem Renaissance to the present. Meets Multicultural Requirement.

AML 3905 Directed Study

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

AML 4014 Topics in Early American Literature

3 sh (may not be repeated for credit)

Thematic approaches to the New World and early American literature, from the time of the Spanish conquest through the American Revolution and the early Republic. Topics vary according to faculty expertise and research interests.

AML 4015 Topics in Nineteenth-Century American Literature

3 sh (may not be repeated for credit)

Explores themes in nineteenth-century American literature, from the Romantics through realism and early modernism. Emphasizes new critical approaches and the racial, ethnic and cultural diversity of American literature. Topics vary according to faculty expertise and research interests. Meets Multicultural Requirement.

AML 4054 Topics in Twentieth-Century and Contemporary American Literature

3 sh (may not be repeated for credit)

Thematic approaches to twentieth-century and contemporary American Literature, from modernism through the present. Studies literature in relation to artistic and social movements of the past century. Topics vary according to faculty expertise and research interests.

AML 4302 Single Author Seminar, American Literature, 1700 to the Present

3 sh (may not be repeated for credit)

Prerequisite: ENG 3010

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

AML 4640 Topics in Native American Literature

3 sh (may not be repeated for credit)

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

AML 4905 Directed Study

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

AML 5905 Directed Study

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

AML 6455 Topics in American Literature

3 sh (may be repeated for up to 12.000 sh of credit)

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

AML 6506 Topics in American Literature to 1900

3 sh (may not be repeated for credit)

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

AML 6507 Topics in American Literature 1900-Present

3 sh (may not be repeated for credit)

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

AML 6905 Directed Study

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

AMS-American Studies Courses

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

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

ANG - Anthropology: Graduate Courses

ANG 5137 Nautical Archaeology Seminar
3 sh (may not be repeated for credit)

Method and theory of nautical archaeology, development as a discipline, ethical considerations, evolution of ship construction and public laws and education.

ANG 5154 Spanish Florida in Anthropological Perspective
3 sh (may not be repeated for credit)

A comprehensive anthropological exploration of the origins and evolution of Spanish Florida as a colonial society between 1513 and 1763. Draws upon the results of historical, ethnohistorical, archaeological (terrestrial and maritime), bioanthropological, and other research disciplines to present the Florida colony as a geographically-extensive multi-ethnic society within the context of the global Spanish empire.

ANG 5157 Pre-Columbian Archaeology Seminar
3 sh (may not be repeated for credit)

Examination of the classic and current literature on key topics in North American pre-Columbian archaeology including peopling of the New World, archaic adaptations, woodland stage developments, and the Mississippian world.

ANG 5172 Historical Archaeology Seminar
3 sh (may not be repeated for credit)

Emphasizes the goals, methods and theoretical base of historical archaeology. Particular emphasis is placed on theoretical development, acculturation, ethnicity, archaeological methods and documentary research. The class is an organized seminar with readings and discussions of specific topics.

ANG 5173 Historical Research Methods in Archaeology
3 sh (may not be repeated for credit)

A practical introduction to the use of historical documents in archeological research, both as primary sources of data for understanding the past, and as a complement to archaeological and other types of data. Examples and case-studies will center on the history of Florida during Spanish, British, and early American periods.

ANG 5181 Geographic Information Systems in Archaeology
3 sh (may not be repeated for credit)

A methods course in the use of Windows based Geographic Information Systems (GIS) technology that teaches the basic skills necessary to use GIS for research in anthropology, archaeology and cultural resource management. GIS philosophy and concepts, database design and use, computer assisted cartography and anthropological research using ArcGIS will be covered.

ANG 5247 Anthropology of the Bible
3 sh (may not be repeated for credit)

A seminar on the social and cultural interpretations of the scriptures pertinent to Hebrew / Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through 4th century CE. Materials brought under scrutiny include the Torah, Hebrew Bible generally, Dead Sea scrolls, Christian canon, and the scriptures of the Naj Hammadi library. Much of the interpretation concerns alternative views of the political and social groups underlying these texts. Graduate students are required to conduct primary scriptural analysis informed by modern critical approaches. Offered concurrently with ANT 4247; graduate students will be assigned additional work. Credit may not be received in both ANG 5247 and ANG 5174.

ANG 5307 Cultures of Latin America
3 sh (may not be repeated for credit)

Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socioeconomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANT 4332, graduate students will be assigned additional work.

ANG 5321 Cultures of Mexico
3 sh (may not be repeated for credit)

Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico's place in the world. Offered concurrently with ANT 4321; graduate students will be assigned additional work.

ANG 5408 Disease and Culture
3 sh (may not be repeated for credit)

Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANT 4532; graduate students will be assigned additional work.

ANG 5451 Race, Ethnicity, and Culture
3 sh (may not be repeated for credit)

Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANT 4451; graduate students will be assigned additional work.

ANG 5514 Human Origins
3 sh (may not be repeated for credit)

Overview of the fossil evidence for human evolution, and hominid behavioral reconstruction using ethnographic and primate models. Offered concurrently with ANT 4586; graduate students will be assigned additional work.

ANG 5516 Modern Human Physical Variation
3 sh (may not be repeated for credit)

Evolutionary perspective on function and adaptive nature of biological variation in modern man. Offered currently with ANT 4516; graduate students will be assigned additional work.

ANG 5520 Human Osteology
4 sh (may not be repeated for credit)
Co-requisite: ANG 5520L

Detailed examination of human skeletal and dental anatomy, structure, and function. Techniques of osteological analysis, including determination of age, sex, stature, ancestry, and pathology. Offered concurrently with ANT 4525; graduate students will be assigned additional work. Credit may not be received in both ANG 5520 and ANG 5466.

ANG 5520L Human Osteology Lab
0 sh (may not be repeated for credit)
Co-requisite: ANG 5520

Corresponding lab for Human Osteology.

ANG 5536 Bioarchaeology
3 sh (may not be repeated for credit)

Bioarchaeology is the study of human skeletal remains from archaeological sites. It draws on techniques from archaeology, anatomy, biology, chemistry, pathology, demography, and history in order to reconstruct both individual lives and collective population histories across the globe. Offered concurrently with ANT 4536; graduate students will be assigned additional work.

ANG 5550 Primatology
3 sh (may not be repeated for credit)

Overview of the taxonomy, evolutionary history, ecology, and behavior of non-human primates, and the theoretical basis and methodology of primate studies. Offered concurrently with ANT 4550; graduate students will be assigned additional work.

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

ANG 6002 Proseminar in Anthropology
3 sh (may be repeated for up to 6.000 sh of credit)

Examines selected subjects in anthropology using the perspectives of all three sub-disciplines; cultural anthropology, biological anthropology, and archaeology. The seminar's goals are to introduce students to the subject, provide in-depth understanding of current issues, and examine the variety of theoretical and methodological approaches used by anthropologists. Contact department for specific topic each semester offered. No more than 6 semester hours credit may be received.

ANG 6084 Contemporary Anthropological Theory
3 sh (may not be repeated for credit)

A seminar engaging readings from the works of key American and European anthropologists since the 1960s. Considers the debates between traditionalism and postmodern schools of anthropology, together with the essential problems for ethnology created by technology, complex society, gender issues, ethnicity, and applications of anthropological research.

ANG 6093 Research Design in Anthropology
3 sh (may not be repeated for credit)

The fundamental issues of research design and implementation and the objectives and strategies of contemporary anthropological research. Scientific procedures and methods in the development of research programs that are logically structured and fundable. Alternative forms of deriving knowledge relating to important issues in epistemology and the philosophy of science will also be discussed.

ANG 6110 Advanced Method and Theory in Archaeology Seminar
3 sh (may not be repeated for credit)

Includes an overview of the history and development of American archaeology with an emphasis on methodological and theoretical topics. Class is an organized seminar with readings and discussions of specific topics.

ANG 6183L Advanced Laboratory Methods in Archaeology
3 sh (may not be repeated for credit)

Advanced training in the operation of an archaeological laboratory. Activities include laboratory organization and management as well as planning laboratory activities to meet deadlines, assignment of tasks, training, and supervising beginning students. Graduate students will instruct undergraduate students in artifact identification and documentation. Credit may not be received in both ANG 6183L and ANG 6823L.

ANG 6192 Historic Preservation Law Seminar
3 sh (may not be repeated for credit)

Examination of pertinent laws and practices in all fields of historic preservation including archaeology, history, and architectural history. Credit may not be received in both ANG 6192 and ANG 6704.

ANG 6196 Policies, Practices and Archaeology in Historic Preservation
3 sh (may not be repeated for credit)

Legislation and regulations concerning cultural resources and the historic preservation system. Also covers compliance archaeology, contract archaeology, ethics, collecting, looting and the role of Native Americans and ethnic groups.

ANG 6286 Contemporary Cultural Anthropological Theory
3 sh (may not be repeated for credit)

Through readings and seminar discussion, students will explore key themes and thinkers of the past few decades which have contributed to the production of contemporary culture theory in anthropology. Important topics will include structuralism, cultural materialism, feminism and anthropology, post-modernism, world systems theory, post-colonialism, and symbolic anthropology. Key theorists will include Claude Levi-Strauss, Marvin Harris, Mary Douglas, Clifford Geertz, Sherry Ortner, Gayle Rubin, Pierre Bourdieu, Arjun Appadurai, and James Clifford.

ANG 6583 Evolutionary Theory in Biological Anthropology
3 sh (may not be repeated for credit)

Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human bio-cultural evolution.

ANG 6824 Advanced Archaeological Field Methods
3-6 sh (may not be repeated for credit)

Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

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

ANG 6971 Anthropology Thesis
1-6 sh (may be repeated for up to 6.000 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
1 sh (may not be repeated for credit)

Basic introduction to maritime studies designed to familiarize students with the dynamic cultural and natural resources of the maritime environment. Students will gain knowledge and understanding of maritime environments.

ANT 2000 Introduction to Anthropology
3 sh (may not be repeated for credit)

Introduction to subdivision of anthropology and anthropological thought, basic treatment of human evolution, origins of civilization, world archaeology and modern work cultures, stressing the continuities of human nature. General Education: Social Science - Behavioral Perspectives. Meets Multicultural Requirement.

ANT 2100 Introduction to Archaeology
3 sh (may not be repeated for credit)

Basic introduction to archaeology; includes fundamental principles, field and laboratory methods, theories construction, special sites and conditions, and ethics. Information from all over the world is used. Field trips to local archeological sites are usually included. General Education: Social Science - Behavioral Perspectives.

ANT 2400 Current Cultural Issues
3 sh (may not be repeated for credit)

Deals with the problems that confront American culture such as poverty, language, race, gender, and violence. Involves critical, analytical and objective thinking so that our own culture and values can be viewed more objectively and other cultures can be better understood and respected. An important element is to provide an understanding of the role of the individual in the continuation or amelioration of issues that afflict American society. General Education: Social Science - Socio-Political Perspectives.

ANT 2511 Biological Anthropology
3 sh (may not be repeated for credit)

Human evolution and variation with emphasis on principles of evolution, primate biology, fossil records, variability in living populations, and the biological foundations of human culture capacities. General Education: Natural Sciences - Lecture.

ANT 2511L Biological Anthropology Lab
1 sh (may not be repeated for credit)

Lab corresponding with ANT 2511. General Education: Natural Sciences - Laboratory.

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

ANT 3015 Forensics in the Media
3 sh (may not be repeated for credit)

Provides students with relevant learning experiences focusing on the standard methods and techniques of forensic science and how it is inaccurately portrayed in popular media. Dispels CSI related myths in popular media, while learning about the multidisciplinary science behind real crime scene investigations.

ANT 3101 Principles of Archaeology
3 sh (may not be repeated for credit)

Detailed explanation of the principles and methodology of current archaeology in U.S.; includes a brief history and theoretical orientation development of American archaeology.

ANT 3137 Shipwreck Archaeology
3 sh (may not be repeated for credit)

Introductory course in Underwater Archaeology with an emphasis on American Maritime History and New World Archaeology as they relate to Pensacola's maritime heritage. The format centers on assigned readings and classroom meetings with lectures, discussions, educational slides and videos, and workshops. An attempt is made to incorporate field activities on at least one occasion.

ANT 3141 Origins of Civilization
3 sh (may not be repeated for credit)

Cultural processes leading toward civilization and theories explaining the emergence of civilization. Comparison of the early civilizations of Mesopotamia, Egypt, India, China, Mesoamerica, and Peru.

ANT 3153 North American Archaeology
3 sh (may not be repeated for credit)

Overview of archaeology of North America. Emphasis on patterns of development of regional cultures based on the archaeological record. Open to students in all majors.

ANT 3158 Florida Archaeology
3 sh (may not be repeated for credit)

Archaeology of Florida with emphasis on general patterns of development of Florida Indians. Field trips to area archaeological sites.

ANT 3212 Peoples and Cultures of the World
3 sh (may not be repeated for credit)

Culture areas of the world and frameworks for cultural comparison. Detailed study of representative peoples around the world gives emphasis to non-Western societies and the reporting tool of ethnography. Meets Multicultural Requirement.

ANT 3241 Anthropology of Religion
3 sh (may not be repeated for credit)

Connections of religion with the social organization, behavioral systems, and technology of traditional peoples outside the world of Western monotheism. Emphasis on animistic symbolism, shamanism, traditional metaphors for deities, and prehistoric, historic, or ethnographic accounts of ritual systems.

ANT 3311 Indians of the Southeast: An Anthropological Perspective
3 sh (may not be repeated for credit)

Southeastern Indians is a survey course of the Native American groups in the Southeastern U. S. and their culture. It begins with an overview of prehistory and continues into the early 19th century. Examines such key areas as sociocultural archaeology, archaeology, biological archaeology, and history. Credit may not be received in both ANT 3311 and ANT 3317.

ANT 3312 North American Indians
3 sh (may not be repeated for credit)

Past and present life styles of the diverse Native American cultures north of Mexico; discussion of the major culture areas with emphasis upon Indians of the Southeastern United States. Meets Multicultural Requirement.

ANT 3352 African Cultures
3 sh (may not be repeated for credit)

An introduction to African culture and society. Examination and analysis of the social foundations, beliefs, practices, and institutions that make up the rich and unique cultural values of the African people. The aim is to broaden students' awareness of the beliefs, practices, and institutions that make up the cultural values of the African people. Attention will be given to pre-colonial years with an overview of the post-colonial era.

ANT 3363 Japanese Culture
3 sh (may not be repeated for credit)

Basic introduction to the distinctive cultural heritage of the Japanese people. A brief overview of key historical events, fundamental philosophical tenets and basic religious beliefs form the background for exploring the prevalent customs, lifestyles and business practices in Japan today. Meets Multicultural Requirement.

ANT 3403 Cultural Ecology
3 sh (may not be repeated for credit)

Interactions between human cultures and the natural and social environment. Stress is placed on the adaptive aspect of human culture and the maintenance or disruption of the ecosystem. Meets Multicultural Requirement.

ANT 3467 Nutritional Anthropology
3 sh (may not be repeated for credit)

Evolution of human diet and subsistence patterns; examination of relationships between food, health, and society in past and present populations, from a biocultural perspective.

ANT 3520 Forensic Anthropology
3 sh (may not be repeated for credit)

Introduces students to the basic principles of forensic anthropology, and to current methods of determining personal identity, manner and cause of death, elapsed time since death, and other relevant information from skeletonized remains.

ANT 3610 Language and Culture
3 sh (may not be repeated for credit)

Introduction to linguistic principles as they relate to the study of culture. Discussion of origins and nature of language. Direct applications of linguistic concepts in anthropological structure analyses and ethnography. Credit may not be received in both ANT 3610 and ANT 3620.

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

ANT 4034 History of Anthropology
3 sh (may not be repeated for credit)

Development of anthropology with emphasis on the emergence of modern American discipline; detailed treatment of the formation of evolutionary, historical, functional and ecological orientations of the discipline.

ANT 4115 Method and Theory in Archaeology
3 sh (may not be repeated for credit)

Prerequisite: ANT 3101

History and evolution of archaeological methods and theory in the United States. Major schools of thought and currently developing ideas are compared and contrasted: sampling theory, site formation, geosciences. Permission is required.

ANT 4121 Combined Archaeological Field Methods
1-9 sh (may not be repeated for credit)

Prerequisite: ANT 3101

Onsite training in maritime and terrestrial archaeology (6 weeks each). Structured hands on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and procedures. A diving certificate from a nationally recognized program and permission is required. Material and Supply Fee will be assessed.

ANT 4155 Archaeology of the Southeastern United States
3 sh (may not be repeated for credit)

Prehistory of the Southeastern United States including chronology, ways of life and the evolution of cultural adaptations for the past 15,000 years. Field trips to archaeological sites and museums will be conducted.

ANT 4172 Historical Archaeology
3 sh (may not be repeated for credit)

Prerequisite: ANT 3101

Principles and methodology of historical archaeology; includes history of this specialty and theoretical development. Course is detailed and is required for Historical Archaeology graduate students prior to taking ANG 5172. Field trips to local historical archaeology sites and museums and permission is required.

ANT 4180L Laboratory Methods in Archaeology
3 sh (may not be repeated for credit)

Prerequisite: (ANT 2000 AND ANT 3101) OR ANT 4824

Introduction to the basic methods of processing, classifying, coding and analysis of archaeological material. Hands-on laboratory methods are taught utilizing collections from recent field school and project excavations. These materials may include European, Mexican, and Native American ceramics, glass, metal, lithics, masonry, plants, and faunal remains.

ANT 4182C Conservation of Archaeological Materials
4 sh (may not be repeated for credit)

Prerequisite: ANT 3101

Techniques of stabilizing and preserving deteriorated or corroded artifacts from archaeological sites. Hands on conservation techniques are taught in seminar / laboratory using chemicals and treatment procedures.

ANT 4190 Historic Preservation in Archaeology
3 sh (may not be repeated for credit)

Prerequisite: ANT 3101

Includes a detailed review of basic historic preservation laws and regulations, the historic preservation system, and the articulation of archaeological resources in that system. Topics include historic preservation law, historic preservation system, archaeological resource management, and the contributions to the discipline of anthropology. Permission is required.

ANT 4191C Archaeological Data Analysis
3 sh (may not be repeated for credit)

Focuses on the methods and techniques of analysis of archaeological data which is an essential step in the interpreting of data. The analytical techniques of archaeological data include construction and use of spread sheets, digital image development and manipulation, map making, data base construction, management, and querying. Geographic Information Systems (GIS) and computer assisted drawing (CAD) will also be introduced. Windows applications for the personal computer are used to perform these analyses.

ANT 4247 Anthropology of the Bible
3 sh (may not be repeated for credit)

Social and cultural interpretation of the scriptures pertinent to Hebrew / Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through the 4th century CE. Students will read the assigned texts from the Torah, the Hebrew Bible generally, the Dead Sea Scrolls, the Christian canon, and the scriptures of the Naj Hammadi library. Offered concurrently with ANG 5247; graduate students will be assigned additional work. Credit may not be received in both ANT 4247 and ANT 4174.

ANT 4302 Sex Roles in Anthropological Perspective
3 sh (may not be repeated for credit)

Female and male behavioral, social and biological similarities and differences viewed from a biological-cultural perspective. Emphases upon evolution and cross-cultural comparison.

ANT 4321 Cultures of Mexico
3 sh (may not be repeated for credit)

Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico's place in the world. Offered concurrently with ANG 5321; graduate students will be assigned additional work.

ANT 4322 Mesoamerican Cultural Traditions
3 sh (may not be repeated for credit)

Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANG 5322; graduate students will be assigned additional work.

ANT 4332 Cultures of Latin America
3 sh (may not be repeated for credit)

Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socioeconomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANG 5307; graduate students will be assigned additional work.

ANT 4451 Race, Ethnicity, and Culture
3 sh (may not be repeated for credit)

Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANG 5451; graduate students will be assigned additional work.

ANT 4516 Modern Human Physical Variation
3 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L

Evolutionary perspective on function and adaptive nature of biological variation in modern humans. Offered concurrently with ANG 5XX5 (Modern Human Physical Variation); graduate students will be assigned additional work.

ANT 4523 Field Methods in Forensic Anthropology
3 sh (may not be repeated for credit)
Prerequisite: ANT 3101 AND ANT 4525/L

On-site training in forensic field methods for the location, documentation, and recovery of human skeletal remains from surface and buried contexts. Includes use of surveying equipment and hand excavation tool. Permission is required.

ANT 4525 Human Osteology
4 sh (may not be repeated for credit)
Prerequisite: ANT 2511
Co-requisite: ANT 4525L

Detailed examination of human skeletal and dental anatomy, structure, and function. Techniques of osteological analysis, including determination of age, sex, stature, ancestry, and pathology. Offered concurrently with ANG 5520; graduate students will be assigned additional work. Credit may not be received in both ANT 4525 and ANT 4466.

ANT 4525L Human Osteology Lab
0 sh (may not be repeated for credit)
Co-requisite: ANT 4525

Corresponding lab for Human Osteology.

ANT 4532 Disease and Culture
3 sh (may not be repeated for credit)

Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANG 5408; graduate students will be assigned additional work. Credit may not be received in both ANT 4532 and ANT 4408.

ANT 4535 Race in Biological Anthropology

3 sh (may not be repeated for credit)

Prerequisite: ANT 2511/L

Examination of the biological basis of human diversity, the mechanisms of human population variation, and racial studies in historical and social context. Credit may not be received in both ANT 4535 and ANT 4587.

ANT 4536 Bioarchaeology

3 sh (may not be repeated for credit)

Prerequisite: ANT 2511/L

Bioarchaeology is the study of human skeletal remains from archaeological sites. It draws on techniques from archaeology, anatomy, biology, chemistry, pathology, demography, and history in order to reconstruct both individual lives and collective population histories across the globe. Offered concurrently with ANT 5536; graduate students will be assigned additional work. Pre requisite: ANT 2511/L minimum grade C.

ANT 4550 Primatology

3 sh (may not be repeated for credit)

Prerequisite: ANT 2511/L

Overview of the taxonomy, evolutionary history, ecology, and behavior of non-human primates, and the theoretical basis and methodology of primates studies. Offered concurrently with ANG 5550; graduate students will be assigned additional work.

ANT 4586 Human Origins

3 sh (may not be repeated for credit)

Prerequisite: ANT 2511/L

Overview of the fossil evidence for human evolution, and hominid behavioral reconstruction using ethnographic and primate models. Offered concurrently with ANG 5514; graduate students will be assigned additional work.

ANT 4651 Aesthetics & Critical Theory

3 sh (may not be repeated for credit)

Experiential and anthropological/semiotic examination of the topic of aesthetics as a central foundation of human culture. Students encounter working artists and scholars, engage Western and non-Western systems of aesthetic value, develop tools for several kinds of postmodern cultural criticism, and explore personal constructions of aesthetics and cultural studies. Permission is required.

ANT 4808 Applied Anthropology

3 sh (may not be repeated for credit)

Methods and techniques of applied anthropology, including ethical issues and approaches to planned culture change - social intervention, policy formation, small scale systems analysis. Practical activities in the local community will be included in the course.

ANT 4824 Terrestrial Archaeological Field Methods

1-9 sh (may not be repeated for credit)

Prerequisite: ANT 3101

Onsite training in terrestrial field methods includes use of hand tools, surveying equipment, and some power equipment. Emphasized in the field are excavation techniques in a variety of situations, field scale drawings, and documentation. Field lab methods are often included. Permission is required. Material and Supply Fee will be assessed.

ANT 4835 Maritime Archaeological Field Methods

1-9 sh (may not be repeated for credit)

Prerequisite: ANT 3101

Onsite training in maritime archaeology. Structured hands on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and use of field instruments, and field conservation procedures. A diving certificate from a nationally recognized program and permission is required. Credit may not be earned in both ANT 4135 and ANT 4835. Material and Supply Fee will be assessed.

ANT 4853C Geographic Information Systems in Archaeology

3 sh (may not be repeated for credit)

Prerequisite: CGS 2570

Application of Windows-based Geographical Information Systems technology in anthropology, archaeology and cultural resource management. Credit may not be earned in both ANT 4076C and ANT 4853C.

ANT 4905 Directed Study

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

ANT 4944 Anthropology Internship

1-3 sh (may be repeated for up to 6.000 sh of credit)

Prerequisite: ANT 4190 AND ANT 4824

Placement in community agency or other social or organizational setting. Supervision by faculty and agency. Student participates in full range of services available in the setting. An internship paper is required. A maximum of 6 sh may be applied to the major requirements. Permission is required.

APK-Applied Kinesiology Courses**APK 3110 Exercise Physiology**

3 sh (may not be repeated for credit)

Prerequisite: BSC 1085/L AND MAC 1105

Co-requisite: APK 3110L

Application of physiological principles to study of man and human performance related to health, sports and leisure activities.

APK 3110L Exercise Physiology Laboratory

1 sh (may not be repeated for credit)

Co-requisite: APK 3110

Student shall become familiar with instruments and test procedures used to gather data on the physiology of exercise. Material and Supply fee will be assessed.

APK 3220C Biomechanical Basis of Movement

4 sh (may not be repeated for credit)

Prerequisite: APK 3110/L

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 3232 Measurement and Evaluation in Health, Leisure, and Sports
3 sh (may not be repeated for credit)

Prerequisite: APK 3110/L

Application of measurement and evaluation principles to study of man and human performance related to health, leisure and sports activities. Instructional designs of physical fitness, sport skills and knowledge testing are examined.

APK 4114C Physiological Basis of Strength Development
3 sh (may not be repeated for credit)

Prerequisite: APK 3220C AND PET 4310C

Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 5389C; graduate students will be assigned additional work. Permission is required.

APK 4119 Exercise Testing for Special Populations
3 sh (may not be repeated for credit)

Prerequisite: APK 4125L AND PET 4380

Designed of exercise programs for individuals with special medical conditions such as rheumatoid arthritis, osteoporosis, spinal disorders, diabetes, obesity, heart disease, hypertension, and pregnancy. Credit may not be earned in both PET 4552 and PET 4691.

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

Prerequisite: APK 3110/L

Provides practical experience in body fat analysis, flexibility testing, basic exercise stress testing, the PWC - 170 Submaximal Aerobic Capacity test, and performance testing for 7 fitness parameters.

APK 4163 Sport Nutrition and Weight Control
3 sh (may not be repeated for credit)

Prerequisite: APK 3110/L

The relationship between physical activity and nutrition; their combined effects on optimal health, fitness, and sport performance.

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

Prerequisite: APK 3232

Human motor development and the learning of motor skills are surveyed and discussed. Emphasis is placed upon factors affecting these processes and the design and selection of activities appropriate to the various stages of development and learning. Material and supply fee will be assessed.

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

Prerequisite: APK 4125L AND PET 4380

The acquisition and interpretation of both resting and exercise electrocardiograms is covered, as well as an overview of heart anatomy, function and electrophysiology. Students are taught to identify various cardiac dysrhythmias and to administer a graded exercise test according to the American College of Sports Medicine guidelines. Students will engage in laboratory hands-on assignments that will include prepping of subjects, conduction and interpretation of a resting and graded exercise test. Department Permission is required.

APK 4409 Success in Sports

3 sh (may not be repeated for credit)

Success in Sports (SIS) is an integration of cross-boundary research documenting the determinants of success in sports. Special emphasis will be placed on elite athletic performance. Will be organized round theoretical accounts for the attainment of elite performance. In addition, the themes of Who in which profiles characteristics of elite athletes will be presented. Why in which inherited and acquired capacities responsible for elite performance will be presented, and How in which selected techniques to maximize training effects will be examined.

APK 4600 Aging and Physical Performance
3 sh (may not be repeated for credit)

Prerequisite: APK 3110/L

Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of the physiological, psychological and social factors which affect movement capabilities, the assessment of physical performance, and the development of activity programs for the aging. Offered concurrently with PEP 5118; graduate students will be assigned additional work.

APK 4603 Balance and Mobility Training for Older Adults
3 sh (may not be repeated for credit)

Physical activity instruction for older adults. Emphasis will be on balance and mobility training. Topics include screening and assessment, core program principles and training methods, program design, leadership, and risk management.

APK 4941C Senior Capstone Experience in Exercise Science
1-6 sh (may not be repeated for credit)

Prerequisite: APK 3220C AND APK 4114C AND APK 4119

As a capstone experience for Exercise Science students, this course will provide opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in an exercise science related field and by faculty academic support. Graded on a satisfactory / unsatisfactory basis only. Departmental permission will be required.

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

Advanced study of principles / theories of human motor learning, behavior, performance.

APK 5407 Elite Performance in Sports
3 sh (may not be repeated for credit)

Success in Sports (SIS) is an integration of research documenting the determinants of successful sport performance. Special emphasis will be placed on the attainment of elite athletic performance. The course will be organized around theoretical accounts for the attainment of elite performance.

APK 5601 Preventative Health in the Aging Population
3 sh (may not be repeated for credit)

Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of physiological, psychological, and social factors affecting movement capabilities, the assessment of physical performance, and the development of activity programs for the aging population.

APK 6111C Advanced Exercise Physiology
3 sh (may not be repeated for credit)

Research and problems in exercise physiology; advanced study of reactions of the human body under stress and during exercise. Material and supply fee will be assessed.

APK 6167C Advanced Human Nutrition and Metabolism
3 sh (may not be repeated for credit)

An advanced study of the role of nutrition as a means to enhance performance in exercise and sport. Topics include principles of energy metabolism, nutrients in their use during exercise, regulation of metabolism by macro and micro nutrients and their role in weight control with athletes. The validity and safety of proposed ergogenic aids are also explored. This course will evaluate the role of nutrition and supplementation vis-à-vis exercise. Topics include: fat, carbohydrate, protein, vitamin, mineral and water needs of the active person; energy metabolism; nutritional and body composition issues; nutritional concerns for special groups; sports supplements; body composition issues. Prerequisites: An undergraduate exercise physiology class.

APK 6226 Analysis of Human Movement
3 sh (may not be repeated for credit)

The course will provide students with the tools necessary to collect and analyze characteristics of human movement using current neuromechanical technologies. Students will engage in neuromechanical study design, implementation, analysis, and dissemination within the laboratory setting.

ARA-Arabic Language Courses

ARA 1120C Beginning Arabic and Language Culture I
4 sh (may not be repeated for credit)

Designed for students with no experience in the Arabic language to develop knowledge through listening, speaking, reading, and writing Modern Standard Arabic. Focuses primarily on cultural understanding of the Arabic world, and basic Arabic language pronunciation, comprehension, communication, and grammar. In addition to the scheduled activities, students are required to complete weekly laboratory assignments.

ARA 1121C Beginning Arabic and Language Culture II
4 sh (may not be repeated for credit)
Prerequisite: ARA 1120C

Continuation of ARA 1120C emphasizing listening and speaking skills with continued practice in reading and writing. Basic grammatical structures will be reviewed and new grammar introduced. The cultural component consists of in-depth considerations of issues in the Arabic world.

ARA 2200C Intermediate Arabic Language and Culture I
4 sh (may not be repeated for credit)
Prerequisite: ARA 1121C

Continuation of ARA 1101C with increased complexity of grammatical constructions, greater emphasis on reading and writing and increased use of authentic materials. Some of the cultural information will be given in Arabic.

ARE-Art Education Courses

ARE 3313C Teaching of Art in the Elementary School
2 sh (may not be repeated for credit)

Art education on elementary level. Orientation in philosophy, materials and procedures for elementary education majors. Not open to art majors. Material and Supply fee will be assessed.

ARE 3314C Methods and Materials in Elementary Art Instruction
2 sh (may not be repeated for credit)
Prerequisite: ART 1300C AND ART 2201C

Current art education practices and philosophies are addressed through a practical, hands-on exploration of the artistic media appropriate for the primary school child. Practicum activities in the public school classroom are required. This course is a prerequisite for ARE 4316C, and should be taken after completion of lower division art core. Permission is required. Material and Supply fee will be assessed.

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

ARE 4316C Special Methods in Art Education
4 sh (may be repeated for up to 8.000 sh of credit)

Studio activity incorporating contemporary concepts in art education, instructional and resource materials, evaluation and development. Curriculum development and implementation into the concurrent practicum. Individual criticism, class discussion and classroom observation and participation in the public schools. (8hrs. observation and 8hrs. participation). Permission is required. Material and Supply fee will be assessed.

ARE 4662 Arts and the Community
3 sh (may not be repeated for credit)

Designed to introduce students to the theoretical foundations and practice techniques of integrating arts and the community. The format will include 1 hour of lecture and topical discussions, semester journaling, and 1 hour lab exercises in partnership with Belmont Arts and Cultural Center. Offered concurrently with ARE 5667; graduate students will be assigned additional work.

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

ARE 4940 Art Education Internship
6-12 sh (may not be repeated for credit)

Capstone course of the Art Education Specialization. Student elects an elementary school setting, a secondary art classroom or both. All internships are limited to Escambia and Santa Rosa counties. Credit hours may vary, depending on the length of the internship. Students who select the full 12-hour option should not enroll in additional coursework, or pursue employment during the Art Internship experience. Graded on Satisfactory / Unsatisfactory basis only. Permission is required.

ARH-Art History Courses

ARH 1000 Art Appreciation
3 sh (may not be repeated for credit)

Surveys the key monuments of Western art and architecture from the upper Paleolithic period to the modern era. Not open to art majors. General Education: Humanities - Fine Arts. Meets Multicultural Requirement.

ARH 2050 Western Survey I: Greek to Renaissance
3 sh (may not be repeated for credit)

Analyses the western aesthetic heritage within its cultural context from the birth of Greek art through the late Renaissance era. Required for all art majors. General Education: Humanities - Fine Arts. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 2051 Western Survey II: Baroque to Contemporary
3 sh (may not be repeated for credit)

Analyzes the Western aesthetic heritage within its cultural context from the seventeenth century to the present. Required of all art majors. Satisfies the lower division requirement, ARH 1050. General Education: Humanities - Fine Arts. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 3590 Perspectives in Ancient and World Art
3 sh (may not be repeated for credit)

The changing interpretations of ancient and world art will be examined in the context of contemporary opinion. Areas in ancient art include prehistoric Europe, Mesopotamia, and Egypt. Emphasis will be placed on the arts of Asia, Africa, Oceania, and the Americas. Credit may not be received in both ARH 3590 and ARH 4590. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 3621 American Art
3 sh (may not be repeated for credit)

A comprehensive survey of American painting, sculpture, and architecture from the seventeenth century to the third quarter of the twentieth century. Gordon Rule: Writing.

ARH 3724 History of Graphic Design
3 sh (may not be repeated for credit)

An analysis of the history of Graphic Design from its inception through its current role in contemporary society. Explores the historical relationship between graphic design and additional design disciplines such as: fashion, architecture, industrial, furniture and digital media design. Gordon Rule: Writing.

ARH 3871 Women in Art
3 sh (may not be repeated for credit)

Investigates the history and issues surrounding the roles of women in the visual arts: women as artists, models, subjects, and patrons. Explores differences in the portrayal of women by both women and men artists. Includes assessment of women's themes, materials, critical theory, and cultural identities. Gordon Rule: Writing.

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

ARH 4150 Etruscan and Roman Art and Architecture
3 sh (may not be repeated for credit)
Prerequisite: ARH 1010 OR ARH 2050

Covers the development of ancient art and architecture during both the Etruscan and Roman periods. Gordon Rule: Writing.

ARH 4302 Late Renaissance Art in Italy
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051

Examines the achievements of Italian artists and architects during the Cinquecento, including the art of Leonardo, Michelangelo, Raphael, Titian, Bramante and other noted masters. Offered concurrently with ARH 5314; graduate students will be assigned additional work. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 4305 Early Italian Renaissance Art
3 sh (may not be repeated for credit)

Prerequisite: ARH 2050 AND ARH 2051

Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 5315; graduate students will be assigned additional work. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 4412 Nineteenth Century European Art
3 sh (may not be repeated for credit)

Prerequisite: ARH 2050 AND ARH 2051

Focuses on the conflict between revolutionary and conservative forces in European art from Neo-Classicism to Symbolism. Offered concurrently with ARH 5440; graduate students will be assigned additional work. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 4450 Modern Art 1900-1950
3 sh (may not be repeated for credit)

Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 5465; graduate students will be assigned additional work. Gordon Rule: Writing. Meets Multicultural Requirement.

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

Central issues and concepts of contemporary movements in art. Gordon Rule: Writing. Meets Multicultural Requirement.

ARH 4652 Art and Archaeology of the Ancient Andes
3 sh (may not be repeated for credit)

Cultural and artistic heritage of the pre-Columbian Andean region through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5658; graduate students will be assigned additional work. Meets Multicultural Requirement.

ARH 4653 Art and Archaeology of Mesoamerica
3 sh (may not be repeated for credit)

Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5659; graduate students will be assigned additional work. Credit may not be earned in both ARH 4655 and ARH 4653. Meets Multicultural Requirement.

ARH 4710 History of Photography
3 sh (may not be repeated for credit)

The history of photography and how it documents, relates to, reflects, and shapes history, culture and the arts. Offered concurrently with ARH 5715; graduate students will be assigned additional work.

ARH 4830C Museum and Gallery Studies
3 sh (may not be repeated for credit)

Examines in depth the theoretical and practical aspects of museum / gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 5836; graduate students will be assigned additional work. Credit may not be received in both ARH 4830C and ARH 3830C.

ARH 4835 Museum and Gallery Studies Practicum
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: ARH 4830C

Advanced study of theoretical and practical aspects of museum / gallery management through placement in a non-profit museum or gallery. Students participate in full range of activities available in the setting, but are also expected to complete a specific museum / gallery project. Offered concurrently with ARH 5947; graduate students will be assigned additional work. Permission is required.

ARH 4900 Readings in Art History
1-3 sh (may be repeated for up to 9.000 sh of credit)

Critical examination of the major research that shaped past and current opinion in an area of art history elected by the students. Advanced students only. Permission is required.

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

ARH 4911 Research in Art History
3 sh (may be repeated for up to 6.000 sh of credit)

Provides the advanced art history student with an opportunity to design and execute an original research project, one which ideally leads to publication or implementation. May be selected as a capstone experience. Permission is required. Gordon Rule: Writing.

ARH 4930 History of Art History Seminar
3 sh (may not be repeated for credit)
Prerequisite: ARH 2050 AND ARH 2051

Examines the changing perspectives and influences that have affected the discipline, from Vasari's biographical approach to the post-structuralism of the New Art History. Required for art history majors.

ARH 4955 Museum, Gallery, or Foreign Study Program
1-6 sh (may not be repeated for credit)

Deeper understanding of works of art through a direct study of originals. Credit may be given for independent study or course work completed at recognized museums, galleries, foreign universities, or study-abroad programs. Advanced students only. Graded on satisfactory / unsatisfactory basis only. Permission is required.

ARH 5465 Modern Art 1900-1950
3 sh (may not be repeated for credit)

Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 4450; graduate students will be assigned additional work.

ARH 5658 Art and Archaeology of the Ancient Andes
3 sh (may not be repeated for credit)

Cultural and artistic heritage of the pre-Columbian Andean region through a study of surviving artifacts and excavated sites.

ARH 5659 Art and Archaeology of Mesoamerica
3 sh (may not be repeated for credit)

Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 4653; graduate students will be assigned additional work.

ARH 5715 History of Photography
3 sh (may not be repeated for credit)

The history of photography and how it documents, relates to, reflects and shapes history, culture and the arts. Offered concurrently with ARH 4710; graduate students will be assigned additional work.

ARH 5836 Museum and Gallery Studies
3 sh (may not be repeated for credit)

Examines in depth the theoretical and practical aspects of museum/gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 4830C; graduate students will be assigned additional work. Permission is required.

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

ARH 5947 Museum and Gallery Practicum
1-3 sh (may be repeated for up to 6.000 sh of credit)

Advanced study of theoretical and practical aspects of museum / gallery management through placement in a non-profit museum or gallery. Students will participate in a full range of activities available in the setting, but are also expected to complete a specific museum / gallery project. Offered concurrently with ARH 4835; graduate students will be assigned additional work. Permission is required.

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

ART- Art Courses

ART 1015C Exploring Artistic Vision
3 sh (may not be repeated for credit)

Challenges the student to explore alternative modes of perception and interpretation, through lectures, discussion, and hands-on application. Material and Supply fee will be assessed. General Education: Humanities - Fine Arts.

ART 1300C Drawing I - Fundamentals
3 sh (may not be repeated for credit)

Students will study several media and how to use them. Instruction in drawing still life, landscapes and other objects / subjects provided. Students develop perception of proportions along with black / white media compositional concepts. Invites all students. Material and supply fee will be assessed.

ART 1301C Drawing II - Fundamentals
3 sh (may not be repeated for credit)
Prerequisite: ART 1300C

Continuation and further development of the studies in ART 1300C. Material and supply fee will be assessed.

ART 2201C Two-Dimensional Design
3 sh (may not be repeated for credit)

Introduction to the concepts by which shape, value and color control space; ideas fundamental to the visual arts. Invites all students. Material and supply fee will be assessed.

ART 2203C Three-Dimensional Design
3 sh (may not be repeated for credit)

Designed to provide the beginning art major with a firm grounding in the technical strategies needed to create forms in space. Material and Supply Fee will be assessed.

ART 2400C General Printmaking
3 sh (may not be repeated for credit)

Introduction to various printmaking techniques possibly including block printing, calligraphy, monotype, etching and engraving. Content varies according to instructor. Prerequisite for all other printmaking courses. Invites all students. Material and Supply Fee will be assessed.

ART 2484C Principles of Graphic Art

3 sh (may not be repeated for credit)

Prerequisite: ART 2602C

An overview of the formal elements of design, contextualized within a framework that stresses experimentation, creativity, innovation, and expression. Products using Photoshop, Illustrator and InDesign are oriented toward commercial applications in print based media. Material and Supply Fee will be assessed.

ART 2500C Painting I - Fundamentals

3 sh (may not be repeated for credit)

Prerequisite: ART 1300C AND ART 2201C

Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects / subjects. Some materials supplied. Primarily an introductory painting course for art majors. Credit may not be earned in both ART 2510C and ART 2500C. Material and supply fee will be assessed.

ART 2602C Introduction to Digital Studio Practice

3 sh (may not be repeated for credit)

Prerequisite: ART 1300C AND ART 2201C

A prerequisite for all courses in the Digital Practice Studio. Students gain a working knowledge of Apple Macintosh OS, are introduced to the basics of Adobe Photoshop and exposed to the myriad of programs and equipment available in the Department of Art Mac Lab. Material and Supply Fee will be assessed.

ART 2701C Fundamentals of Sculpture

3 sh (may not be repeated for credit)

Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C

Course explores a wide range of contemporary sculpture, and familiarizes students with current genres and issues. Assignments develop important foundational skills in 3-D design, construction and materials, while challenging the mind with compelling concepts. Material and Supply Fee will be assessed.

ART 2821 Art and Visual Culture Today

3 sh (may not be repeated for credit)

Examines the cross-fertilization of visual forms via various media from painting and photography to film and advertising. Investigates social practices and institutions that produce images, and the power of images to shape our opinions and beliefs. Also addresses theories about modes of seeing. General Education: Humanities - Fine Arts.

ART 2905 Directed Study

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

ART 3213C Advanced Ideas and Concepts

3 sh (may not be repeated for credit)

Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C

A personal and group exploration of the artistic process, which harnesses the skills developed in the foundation art and media-based course to expand the creative potential. For advanced art majors and all BFA candidates in their junior year. Material and Supply fee will be assessed.

ART 3312C Drawing III: The Figure

3 sh (may not be repeated for credit)

Prerequisite: ART 1300C AND ART 1301C AND ART 2201C

Requires essential education in drawing the human figure, whose accurate visualization remains a vital component of all artistic media and practice. Builds on the foundation art courses in drawing and two dimensional-design, which are necessary prerequisites. Material and Supply Fee will be assessed.

ART 3313C Drawing for Non-Majors

3 sh (may not be repeated for credit)

Drawing for Non-Majors is for beginning artists who want to improve their drawing skills. Emphasizes composition, line, proportion, perspective, value, shading, and introduces color. Students will explore the technical handling of different types of materials through exercises and finished drawings. Material and Supply fee will be assessed.

ART 3442C Advanced Printmaking: Intaglio

3 sh (may not be repeated for credit)

Prerequisite: ART 1300C AND ART 1301C AND ART 2201C AND ART 2203C

Discussion and exploration into a variety of printmaking techniques unique to the intaglio process. The philosophical and functional aspects of the course will be cultivated. Material and Supply Fee will be assessed.

ART 3504C Painting II-Intermediate

3 sh (may not be repeated for credit)

Prerequisite: ART 1301C AND ART 2500C

Includes fundamentals review. Develops individuality. Uses observational and conceptual experiences / project. Stresses understanding / perceiving color, using media and techniques appropriate to the student's personal development. Primarily for art majors. Credit may not be earned in both ART 3530C and ART 3504C. Material and Supply Fee will be assessed.

ART 3505C Painting III-Advanced

3 sh (may not be repeated for credit)

Prerequisite: ART 3504C

Individual development in media, technique and concept will be stressed. Possibilities of painting other than easel painting will be presented. Investigation and experimentation responding to situations and projects is required. Credit cannot be received for both ART3505C and ART 3405C.

ART 3507C Painting for Non-Majors

3 sh (may not be repeated for credit)

Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects / subjects. Some materials supplied. Primarily an introductory painting for majors outside of art. Invites all students. Material and Supply Fee will be assessed. Credit may not be received in both ART 3507C and ART 3500C.

ART 3613C Digital Multimedia

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 2602C

Issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, emerging technology, installation, programming and / or robotics to be determined by instructor. Students work both individually and collaboratively on projects that can involve video, space, time, objects, film, robotics, programming, or any other appropriate media. Material and Supply Fee will be assessed.

ART 3618C Introduction to Web-based Art

3 sh (may not be repeated for credit)

Prerequisite: ART 2600C

An introduction to the Internet as a platform for fine art practice. A study of the history of web-based interactive artworks, contemporary concepts and issues in interactive art are explored through regular critiques, readings, and screenings. Students will produce and critique artworks using HTML, scripting, and software-based site production for the web. Material and Supply Fee will be assessed. Credit may not be received in both ART 3618C and ART 4618C.

ART 3630C Artist's Video

3 sh (may be repeated for up to 9.000 sh of credit)

An introduction to digital video using Final Cut Pro, iMovie, and After Effects. Focuses on video as an art medium, the history of video art and looking at examples from key artists of our time. Students must purchase a flash drive or a firewall external hard drive of at least 40GB for use in this class. Material and Supply Fee will be assessed.

ART 3660C Digital Photo Exploration

3 sh (may not be repeated for credit)

Prerequisite: ART 2600C

Designed for student artists interested in capturing digital images that can stand alone as compelling visual statements, or be incorporated within a broader artistic framework. Material and Supply Fee will be assessed.

ART 3714C Advanced Sculpture: Exploring Materials

3 sh (may not be repeated for credit)

Prerequisite: ART 2701C

Focuses on sculptural media and object making, both traditional and in contemporary practice. Provides further investigation into the selection of 3-D materials and its implications for authorship, meaning, environmental responsibility, and health concerns. Material and Supply Fee will be assessed.

ART 3718C Advanced Sculpture: Intro to the Genres

3 sh (may not be repeated for credit)

Prerequisite: ART 2701C

Reorganizes the open-ended nature of "sculpture" as a category in art practice today. Moves beyond the conventional definition of sculpture as concerned with volume and mass in space. Topics include how art is responsive to its context, and the issue of authorship, process, and vulnerability will be explored. Material and Supply Fee will be assessed.

ART 3737C Advanced Sculpture: Non-Place

3 sh (may not be repeated for credit)

Prerequisite: ART 2701C

Theory-based studio course that addresses anthropologist Marc Auge's concept of the Non-Place. Course will examine what makes a space a non-place. Students will be challenged to think about the ways in which various kinds of art, architecture, and design can transform our everyday experiences of non-places into places that inspire. Material and Supply Fee will be assessed. Permission is required.

ART 3739C Advanced Sculpture: Site Specific Installation

3 sh (may not be repeated for credit)

Prerequisite: ART 2701C

Course will examine strategies for work on site, gaining an understanding of the complex intersection of the social, cultural, built, and natural environment that are essential to the creation of an artist's intention, independently or in collaboration with others, in and out of the art world. Material and Supply Fee will be assessed.

ART 3760C Ceramics

3 sh (may not be repeated for credit)

Variety of hand-forming processes including throwing on the potter's wheel. Deals with basic glazing and firing techniques. Invites all students. Material and Supply Fee will be assessed.

ART 3762C Ceramics: Wheelthrowing

3 sh (may not be repeated for credit)

Prerequisite: ART 3760C

Intermediate course in throwing techniques. Deals with clay in terms of functional as well as sculptural considerations. Covers a broad range of technical information. Material and supply fee will be assessed.

ART 3769C Sculptural Ceramics

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 2203C AND ART 3760C

Designed to encompass all skill levels from beginning to advanced. Work will be focused on using the clay body and glazes to create non-utilitarian works of art. Wheel throwing, coil building and slab building methods will be employed as needed to realize this goal. The main firing method will be cone 10 gas firing to create long-lasting stoneware pieces. Material and Supply Fee will be assessed.

ART 3827C Conceptual Research and Development

3 sh (may not be repeated for credit)

Course engages art majors as leaders in the creation of cultural products for a fabricated society, one whose structure bears an intended resemblance to today's society. Students learn to lead group discussions and activities, culminating in a public exhibition of the culture's "artifacts".

ART 3905 Directed Study

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

ART 3930 Special Topics in Painting and Drawing

1-9 sh (may be repeated for up to 27.000 sh of credit)

Unique topics concerning painting and drawing. Students should have background of fundamentals in painting and/or drawing. Assignments will vary.

ART 4161C New and Mixed Media: Personal Directions

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 3213C

Focused research in new and mixed media with attention to the development of a personal artistic statement. For advanced upper-level students only. May be designated a capstone experience.

Permission is required. Material and Supply fee will be assessed.

ART 4332C Drawing IV - Advanced

3 sh (may not be repeated for credit)

Prerequisite: ART 3312C

While there is a continuation of the development of many of the concepts of drawing from ART 3312C, this course is dedicated to the study of life drawing concepts. The human figure will be the primary subject matter. Extensive experimentation and exploration of drawing media use in relation to the figure will be stressed. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both ART 4332C and ART 4320C.

ART 4333C Drawing V - Advanced

3 sh (may not be repeated for credit)

Prerequisite: ART 4332C

Use of classroom / studio situation to direct the student towards independent study. Student will be required to participate in the structuring of projects and experiences that demand individual investigation and development. Material and supply fee will be assessed. Credit may not be earned in both ART 4332C and ART 4333C.

ART 4386C Drawing: Personal Directions

3 sh (may be repeated for up to 9.000 sh of credit)

Topics tailored to the advanced drawing student's personal creative exploration. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.

ART 4461C Printmaking: Personal Directions

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 2400C AND ART 3442C

Focused research in printmaking with attention to the development of a personal artistic statement. For advanced upper-level students only. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.

ART 4506C Painting IV-Advanced

3 sh (may not be repeated for credit)

Prerequisite: ART 3505C

Use of the classroom / studio to direct the student in independent study. Students will be required to initiate the structuring of projects and experiences and to pursue them with individual development and investigation.

ART 4520C Painting: Personal Directions

3 sh (may be repeated for up to 9.000 sh of credit)

Unique topics concerning painting for the upper level or advanced student. Students should have an extensive background in the fundamentals of painting, drawing, and design, as well as an advanced knowledge of ideas / concepts in contemporary painting. May be designated a capstone experience.

ART 4619C Advanced Digital Multimedia

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 3613C AND ART 3618C

Advanced issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, installation, programming and / or robotics to be determined by instructor. Students work both individually and in collaboration on projects that can involve video, sound, space, time, objects, film, robotics, programming or any other appropriate media. Material and Supply Fee will be assessed.

ART 4632C Digital Design Studio Senior Project

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 3618C

Designed for seniors in the Graphic Design BA and Digital Art BFA programs pursuing self-initiated and self-directed projects. Projects may include the development of a single (or sequential) large-scale artwork, the further development of projects begun at the lower level for inclusion in the senior portfolio, and/or design and development of the senior exit show and/or senior design portfolio. Students' proposals must be approved by the instructor at least two weeks before the start of the semester. May be designated a capstone experience. Permission is required. Material and Supply Fee will be assessed.

ART 4633C Interactive Design

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 3618C

An exploration of the design of interactive environments for design professionals. Issues addressed include accessibility, usability, interface, and information design. A greater emphasis on prototyping techniques and software best suited to the contemporary marketplace.

ART 4712C Sculpture: Personal Directions

3 sh (may be repeated for up to 9.000 sh of credit)

Focused research into advanced specialized sculptural processes not normally covered within the normal sculpture course offerings. Processes covered are dependent upon direction of work.

Contemporary art concepts are an integral part of this class. For advanced upper-level students only. May be designated a capstone course. Material Supply fee will be assessed.

ART 4787C Ceramics: Personal Directions

3 sh (may be repeated for up to 9.000 sh of credit)

Prerequisite: ART 3764C

Design and the development of individual expression in clay. Student has a choice of forming techniques. Covers advanced firing and glazing techniques. Material and supply fee will be assessed.

ART 4800 Portfolio

3 sh (may not be repeated for credit)

Provides the information, support, and technical ability needed to build a strong portfolio and prepare applications to graduate schools, residencies, and internships. Explains how to professionally enter the contemporary art market. Open to all art majors, but required of BFA students.

ART 4905 Directed Study

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

ART 5905 Directed Study

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

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

ASH-Asian History Courses

AST-Astronomy Courses

AST 1002 Descriptive Astronomy
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114

Introductory astronomy. Basic astronomical concepts; gravitation and other cosmic forces; planets, moons, and other components of the solar system; nature and evolution of the sun and of other stars; structure of galaxies and of the universe as a whole. General Education: Natural Sciences - Lecture.

AST 1002L Descriptive Astronomy Laboratory
1 sh (may not be repeated for credit)
Co-requisite: AST 1002

Elective laboratory to accompany AST 1002. One period per week for 3 hours. Experiments, measurements, and observations of planetary, stellar, galactic, and extragalactic astronomy. General Education: Natural Sciences - Laboratory.

AST 3222 Introduction to Astrophysics
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311 AND PHY 2048
Co-requisite: PHY 2049

Comprehensive survey of the universe and its appearance from earth. Seasons, tides, eclipses. The solar system, stellar evolution and galaxies. Quasars, pulsars, black holes.

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

ATR-Athletic Training Courses

ATR 2000 Basic Care and Prevention Principles of Athletic Training
3 sh (may not be repeated for credit)

Designed to provide an overview of proper roles and responsibilities of the National Athletic Trainers' Association Board of Certification (NATABOC), Certified Athletic Trainer (ATC) in providing quality health care to the physically active individual, as well as other health care professionals that comprise the sports medicine team. In addition, specific skills related to athletic health care will be addressed. A grade of "B" or better is required. Credit may not be earned in both PET 2603, ATR 2000 and PET 2604.

ATR 2010 Advanced Prevention and Care of Injuries in Health, Leisure, and Sports
3 sh (may not be repeated for credit)

Fitness and health, prevention and care of injuries, and restoration and rehabilitation of the injured. Standard first aid, anatomy and physiology are required.

ATR 3104 Protective Methods in Sports Medicine
3 sh (may not be repeated for credit)

Principles in the selection, fabrication, and application of athletic equipment, orthotics, protective taping and bracing, and splints that are commonly used in various athletic training settings. Additionally, selection and application of selected emergency medical equipment and ambulation techniques / equipment will be addressed. Material and supply fee will be assessed. Permission is required.

ATR 3132 Functional Kinesiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 1085/L

Provides an in-depth, hands-on approach to learning the human skeletal and muscular anatomy and how it relates to motion and mechanism of injury, muscle origins, insertions, and actions will be learned through palpation.

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

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis. Credit may not be received in both APK 4305, ATR 3212 and PET 4609.

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

Principles and proper use of therapeutic modalities. Topics include indication, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Permission is required.

ATR 3512 Management Strategies in Athletic Training
3 sh (may not be repeated for credit)

Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications. Credit may not be earned in both PET 3484, ATR 3512 and PET 3660.

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

Students will refine many of the athletic training skills which were introduced during other courses. These include injury surveillance, implementation of OSHA standards, pre-participation exams, environment illness, environmental illness prevention, etiology and prevention guidelines associated with the leading causes of sudden death during physical activity, emergency preparedness, and communication and education of coaches, parents, and athletes. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 3822 Athletic Training Clinical II

3 sh (may not be repeated for credit)

Prerequisite: ATR 3812

Students will refine many of the athletic training skills which were introduced during other courses. These include using protective equipment and prophylactic procedures, emergency assessment procedures, and perform a comprehensive clinical evaluation on the spine and lower extremities. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4213 Evaluation Techniques of Athletic Injuries II

3 sh (may not be repeated for credit)

Prerequisite: ATR 3212 AND PET 4609

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the upper extremity and neck, as well as analysis of the throwing arm.

ATR 4314 Rehabilitation of Athletic Injuries

3 sh (may not be repeated for credit)

Prerequisite: ATR 2010

Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.

ATR 4314L Rehabilitation of Athletic Injuries Laboratory

1 sh (may not be repeated for credit)

Prerequisite: ATR 2010

Co-requisite: ATR 4314

Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

ATR 4420 Pharmacology Application in Athletic Training

3 sh (may not be repeated for credit)

Prerequisite: ATR 3212

Provides information on the use, interaction, side effects of pharmaceuticals used in the treatment of athletes. Provides instruction in pharmacodynamics, pharmacokinetics used in the description of medical conditions associated with athletic injury diagnosis and classification.

ATR 4432 General Medical Conditions

2 sh (may not be repeated for credit)

Prerequisite: ATR 3212

A specialized course dealing with the pathology, signs and symptoms, and management/treatment of selected general medical conditions affecting the physically active individual.

ATR 4832 Athletic Training Clinical III

3 sh (may not be repeated for credit)

Prerequisite: ATR 3822

Students will refine many of the athletic training skills which were introduced during other courses. These include diagnostic techniques, assess and interpret clinical findings based on cardiovascular function, pulmonary functions, gastrointestinal function, as well as other body areas. Students will also improve skills in educating patients including home care, expanding rehabilitation skills, and perform comprehensive evaluations on upper extremities, the head, neck and thorax. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4842 Athletic Training Clinical IV

3 sh (may not be repeated for credit)

Prerequisite: ATR 4832

Students will refine many of the athletic training skills which were introduced during other courses. These include evidence based practices, general nutrition concepts, disordered eating intervention, drug use intervention, use clinical reasoning skills, perform a comprehensive clinical exam on all body parts and systems, psychological interventions, and establish a health baseline for patients. Clinical experiences are obtained in various athletic training settings, including the university's athletic settings, local high schools, outpatient rehabilitation clinic and other settings where designated preceptors are utilized. Students are assigned to a supervising preceptor at each clinical experience site.

ATR 4902 Directed Study

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

ATR 4933 Senior Seminar in Athletic Training

3 sh (may not be repeated for credit)

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

The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required. Credit may not be received in both APK 4113, ATR 4933 and PET 4621.

BCH-Biochem (Biophysics) Courses**BCH 3033 Biochemistry I**

3 sh (may not be repeated for credit)

Prerequisite: BSC 2010/L AND CHM 2210

A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they are derived. Conformational properties of biomolecules, enzyme kinetics and mechanisms, allosterism and cooperativity are surveyed. Material and supply fee will be assessed for corresponding lab.

BCH 3033L Biochemistry I Laboratory
1 sh (may not be repeated for credit)

Prerequisite: BCH 3033*

A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they arrived. Conformational properties of biomolecules, enzyme kinetics, and mechanisms, allosterism and cooperativity are surveyed. Material and Supply Fee will be assessed.

BCH 3034 Biochemistry II
3 sh (may not be repeated for credit)

Prerequisite: BCH 3033

Builds on the knowledge gained in BCH 3033 or CHM 2210 / CHM 2211 which deals with biological membranes and the anabolic and catabolic pathways of the major biological macromolecules.

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

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

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

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

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

BCN-Building Construction Courses

BCN 2272 Blueprint Reading
3 sh (may not be repeated for credit)

The reading of construction blueprints is a foundational skill in construction. All construction professionals, regardless of specific profession, must know how to read blueprints. Course provides foundational knowledge and enough practice at reading blueprints to give a basic understanding as well as the requirements for the GC Exam. Students are required to purchase a set of scales: architectural and engineering.

BCN 2405 Statics and Strength of Materials
3 sh (may not be repeated for credit)

Analysis and strength of structural elements for buildings, bridges and specialized structures that utilize steel and timber and concrete. Covers the statics of particles, rigid bodies, friction, strengths of materials such as wood, steel and concrete.

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

BCN 3224 Construction Materials and Method
3 sh (may not be repeated for credit)

Methods of how buildings are constructed - as they relate to the changing materials, methods and technologies - are explored. Focusing on the most common and practical building materials and methods, students will learn ?means and methods? of construction through instructor guidance, class demonstrations, and hands-on experiences.

BCN 3281C Construction Survey and Building Layout
3 sh (may not be repeated for credit)

Application of surveying skills required in the field of construction, including building layout, indirect determination of elevation and distance, referencing, establishment of grade, and topographic mapping. Instruments used will include transit and automatic level. Credit cannot be received for both BCN 3281C and BCN 3282C.

BCN 3561 Construction Mechanics I
3 sh (may not be repeated for credit)

Introduces building mechanical and electrical system basics and related equipment. Areas of study included are heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting.

BCN 3590 Sustainable Construction
3 sh (may not be repeated for credit)

Sustainable construction knowledge is fast becoming a requirement in construction-related industries. Organizations and resources available to prepare and apply the practices, initiatives, materials, and theories of the practices of green building will be explored. Preparatory lectures for the LEED Professional Accreditation Exam.

BCN 3731 Construction Safety
3 sh (may not be repeated for credit)

Principles of safety in typical industrial and construction environments.

BCN 3762 Building Codes
3 sh (may not be repeated for credit)

An on-line course that covers the general requirements of the Florida Building Code for commercial construction, based on occupancy classification and construction type.

BCN 3767 CDT Prep Course: Construction Documents
3 sh (may not be repeated for credit)

Preparation for the National Construction Specification Exam for Construction Document Technician certification. Material and Supply fee will be assessed.

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

BCN 4258C Project Conceptualization
3 sh (may not be repeated for credit)
Prerequisite: BCN 2272 AND BCN 3224

Introduction to 3D Modeling software for Building Information Modeling (BIM). Activities are designed to provide in-depth theory with the use of BIM information and the impact on construction contracts and processes. There is a downloadable free BIM program that will be used but the student must have their own computer to load the program and use it for this course.

BCN 4431 Structures
3 sh (may not be repeated for credit)
Prerequisite: BCN 2405

Analysis and design of structural elements for buildings, bridges and specialized structures which utilize steel and timber. Includes the evaluation of beam shear, deflection, bearing and moment, plus column behavior, along with their connectors for both steel and timber, including laminates and plywood.

BCN 4461 Soils, Concrete, and Masonry

3 sh (may not be repeated for credit)

Prerequisite: BCN 4431

Analysis and design of concrete elements as related to construction, including forms, formwork design and form materials. Examination of reinforced concrete strength design methods as well as codes and safety as they apply to concrete structures.

BCN 4564 Construction Mechanics II

3 sh (may not be repeated for credit)

Prerequisite: BCN 3561

Examination of heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting. A construction site visit is included.

BCN 4701 Construction Administration

3 sh (may not be repeated for credit)

Overview of the construction industry and professional requirements of management, administration and project management in construction environments. Consideration of information required to sit for the contractor's examination.

BCN 4720C Scheduling

3 sh (may not be repeated for credit)

Prerequisite: BCN 4701 AND MAN 3583

Scheduling for construction project management is a critical skill in construction. An overview of scheduling techniques, applications, and software packages available; Primavera, a scheduling software package, will be used.

BCN 4773 Construction Finance and Controls

3 sh (may not be repeated for credit)

Prerequisite: EGS 3613

The basic principles and application of construction ownership and business management will be covered. The emphasis for the course will be on financial management, risk management, labor law, worker's compensation. Accounting competencies are also covered. The outline for the course covers the topics contained in the Business Section of the Florida Contractor's Manual. Additionally, sections of the AICPA Audit and Accounting Guide for Construction Contractors will be included.

BCN 4905 Directed Study

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

BCN 4940 Construction Internship/Senior Project

3 sh (may not be repeated for credit)

Field-based experience where students work in real-world situations with industry professionals. Permission is required.

BOT-Botany Courses**BOT 2010 General Botany**

3 sh (may not be repeated for credit)

Co-requisite: BOT 2010L

Introduction to the basic concepts which apply to all plants including cell theory, biosynthetic processes, physiological response, development and reproduction, as well as consideration of plant morphology, systematics and evolution. Material and supply fee will be assessed for corresponding lab. General Education: Natural Sciences - Combined Lecture and Laboratory.

BOT 2010L General Botany lab

1 sh (may not be repeated for credit)

Co-requisite: BOT 2010

General Education: Natural Sciences - Laboratory.

BOT 2905 Directed Study

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

BOT 3905 Directed Study

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

BOT 4374 Plant Developmental Biology

3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: BOT 4374L

Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5376; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 4374L Plant Developmental Biology Laboratory

1 sh (may not be repeated for credit)

Prerequisite: BOT 2010

Co-requisite: BOT 4374

Is designed to accompany BOT 4374. Features experiments that demonstrate and reinforce developmental processes presented in the lecture. Topics include cell division and elongation, phototropism, gravitropism, photoperiodism, seed germination, senescence, and plant tissue culture. Offered concurrently with BOT 5376L; graduate students will be assigned additional work. Material and supply fee will be assessed.

BOT 4404 Aquatic Botany

4 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: BOT 4404L

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

BOT 4404L Aquatic Botany Lab

0 sh (may not be repeated for credit)

Co-requisite: BOT 4404

Corresponding lab for Aquatic Botany.

BOT 4503 Plant Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4503L

Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5506; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 4503L Plant Physiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: BOT 2010 AND ZOO 1010
Co-requisite: BOT 4503

Designed to accompany BOT 4503 and features experiments that demonstrate and reinforce physiological and biochemical principles presented in the lecture. Topics include plant nutrition, enzymology, photosynthesis, respiration, transpiration, plant hormones, and seed germination. Material and supply fee will be assessed. Offered concurrently with BOT 5506L; graduate students will be assigned additional work.

BOT 4734 Plant Biotechnology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: BOT 4734L

Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and reinforces the principles presented in lecture. Material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 5735; graduate students will be assigned additional work.

BOT 4734L Plant Biotechnology Lab
1 sh (may not be repeated for credit)
Co-requisite: BOT 4734

Corresponding Lab for Plant Biotechnology.

BOT 4850 Medicinal Botany
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Pharmacognosy, the knowledge of drugs, grew out of the old herbal remedies passed down by tradition. Plant natural products continue to form the basis of many new therapeutic treatments in modern and alternative medicines. Provides a survey of phytochemicals that have proven useful for improving human health beyond the basic use of plants as a food source. Offered concurrently with BOT 5852 graduate students will be assigned additional work.

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

BOT 5376 Plant Developmental Biology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5376L

Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4374; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 5376L Plant Developmental Biology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: BOT 5376

Is designed to accompany BOT 5376. Features experiments that demonstrate and reinforce developmental processes presented in the lecture. Topics include cell division and elongation, phototropism, gravitropism, photoperiodism, seed germination, senescence, and plant tissue culture. Offered concurrently with BOT 4374L; graduate students will be assigned additional work. Material and supply fee will be assessed.

BOT 5506 Plant Physiology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5506L

Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4503; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 5506L Plant Physiology Lab
1 sh (may not be repeated for credit)
Co-requisite: BOT 5506

Corresponding lab for Plant Physiology.

BOT 5735 Plant Biotechnology
3 sh (may not be repeated for credit)
Co-requisite: BOT 5735L

Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and re-enforces the principles presented in lecture. A material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 4734; graduate students will be assigned additional work.

BOT 5735L Plant Biotechnology Lab

1 sh (may not be repeated for credit)

Co-requisite: BOT 5735

Corresponding lab for Plant Biotechnology.

BOT 5852 Medicinal Botany

3 sh (may not be repeated for credit)

Pharmacognosy, the knowledge of drugs, grew out of the old herbal remedies passed down by tradition. Plant natural products continue to form the basis of many new therapeutic treatments in modern and alternative medicines. Provides a survey of phytochemicals that have proven useful for improving human health beyond the basic use of plants as a food source. Offered concurrently with BOT 4850; graduate students will be assigned additional work.

BOT 5905 Directed Study

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

BOT 6905 Directed Study

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

BSC-Biological Sciences Courses**BSC 1005 General Biology for Non-Majors**

2 sh (may not be repeated for credit)

Prerequisite: BSC 1005L*

Survey of abiotic and biotic principles as they apply to basic structural and functional topics at the cellular, organismal, population and community levels; and the application of these principles to issues of current interest. General Education: Natural Sciences - Lecture.

BSC 1005L General Biology Laboratory for Non-Majors

1 sh (may not be repeated for credit)

Prerequisite: BSC 1005*

Lab correlating with BSC 1005. Material and Supply Fee will be assessed. General Education: Natural Sciences - Laboratory.

BSC 1050 Fundamentals of Ecology

3 sh (may not be repeated for credit)

Intended for non-majors who have an interest in nature and how they interact with nature. Gives general overview of ecological principles and how these principles influence the outside world around us. Imbedded are several activities that are associated with each chapter. The activities were developed so that the student will gain a respect for ecology as well as show how ecological principles affect your daily life. General Education: Natural Sciences - Lecture.

BSC 1085 Anatomy and Physiology I

3 sh (may not be repeated for credit)

General introduction to form and function of the human body. Review of basic anatomical / physiological attributes of integumentary, skeletal, muscular, nervous and sensory organ systems. Designed for students with little or no previous anatomy or physiology experience. Lab optional. General Education: Natural Sciences - Lecture.

BSC 1085L Anatomy and Physiology I Laboratory

1 sh (may not be repeated for credit)

Optional lab associated with course. Anatomical dissection and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. Material and supply fee will be assessed. General Education: Natural Sciences - Laboratory.

BSC 1086 Anatomy and Physiology II

3 sh (may not be repeated for credit)

Prerequisite: BSC 1085

Continuation of Anatomy and Physiology I. Reviews basic anatomical/physiological attributes of endocrine, cardiopulmonary, digestive, reproductive and immune systems. Lab optional. General Education: Natural Sciences - Lecture.

BSC 1086L Anatomy & Physiology II Laboratory

1 sh (may not be repeated for credit)

Optional lab associated with course. Anatomical dissections and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. Material and Supply Fee will be assessed. General Education: Natural Sciences - Laboratory.

BSC 1905 Directed Study

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

BSC 2010 Biology I

3 sh (may not be repeated for credit)

Introduction to the cellular processes of living organisms, including subcellular structures, biochemical and genetic regulation of function and growth, reproduction, heredity, and evolution. Material and supply fee will be assessed for the corresponding lab. General Education: Natural Sciences - Lecture.

BSC 2010L Biology I Laboratory

1 sh (may not be repeated for credit)

Prerequisite: BSC 2010*

Introduction to the science method, reading, and writing, microscopy, and science measurement. Cellular processes of prokaryotic and eukaryotic organisms, including subcellular structures, biochemical and genetic regulation of function and growth, reproduction, heredity, and evidence of evolution. Material and supply fee will be assessed for this lab. General Education: Natural Sciences - Laboratory.

BSC 2011 Biology II

3 sh (may not be repeated for credit)

Prerequisite: BSC 2010/L

Explores the diversity of life including bacteria, protists, fungi, plants and animals at the introductory level designed for students starting a major in biology. The course will outline the tree of life in illustrating the evolutionary relationships among organisms. The course will also cover basic functional morphology and physiology at the organismal level, and provide an introduction to ecological interactions at the population and community level. General Education: Natural Sciences - Lecture.

BSC 2011L Biology II Laboratory

1 sh (may not be repeated for credit)

Prerequisite: BSC 2011*

Explores the diversity of life including bacteria, protists, fungi, plants and animals at the introductory level designed for students starting a major in biology. The course will outline the tree of life in illustrating the evolutionary relationships among organisms. The course will also cover basic functional morphology and physiology at the organismal level, and provide an introduction to ecological interactions at the population and community level. General Education: Natural Sciences - Laboratory.

BSC 2311 Introduction to Oceanography and Marine Biology
3 sh (may not be repeated for credit)

An introduction to the chemical, physical and geological features of the world ocean and the major groups of living marine organisms that inhabit it. Physical chemical and biological interrelationships will be emphasized. Credit not granted toward a major in Biology. General Education: Natural Sciences - Lecture.

BSC 2311L Introduction to Oceanography and Marine Biology
Laboratory
1 sh (may not be repeated for credit)

Lab correlating with BSC 2311. Credit not granted toward a major in Biology. Material and Supply Fee will be assessed. General Education: Natural Sciences - Laboratory.

BSC 2844 Biology Skills
1 sh (may not be repeated for credit)

A professional development course for students in the Biology and Pre-professional curriculum plan. It will introduce the students to necessary skills for upper division biology courses, including reading and interpretation of scientific publications, scientific writing styles, ethics, and critical thinking.

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

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

BSC 4263 Biological Oceanography
3 sh (may not be repeated for credit)

Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physiochemical properties of the pelagic realm.

BSC 4303 Biogeography
3 sh (may not be repeated for credit)

Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 5305; graduate students will be assigned additional work.

BSC 4434 Bioinformatics and Data Science
3 sh (may not be repeated for credit)

This 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 and clinical 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. Offered concurrently with BSC 5459; graduate students will be assigned additional work.

BSC 4854 Bioterrorism
3 sh (may not be repeated for credit)

Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 5856; graduate students will be assigned additional work.

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

BSC 4941 Clinical Experience in Health Care
3 sh (may not be repeated for credit)
Prerequisite: Completion of 90 hours of college course work is required prior to taking this course.

Clinical experience in select health care locations within the region through Memoranda of Understanding (MOU) established with UWF and Biology. Permission process includes an interview conducted by the target health care entity to ensure expectations of student and health care entity will be met. Students will be expected to invest a minimum of 12 hrs / week on the project during the semester in which they are enrolled. A final report on the project(s) will be submitted. Permission is required.

BSC 5305 Biogeography
3 sh (may not be repeated for credit)

Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 4303; graduate students will be assigned additional work.

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

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

BSC 5856 Bioterrorism

3 sh (may not be repeated for credit)

Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare / bioterrorist acts, how destruction is produced, and what countries / groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact, will be discussed and played out. Government preparedness to deal with biowarfare / bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 4854; graduate students will be assigned additional work.

BSC 5905 Directed Study

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

BSC 6002L Contemporary Laboratory Skills

4 sh (may not be repeated for credit)

A review of contemporary laboratory protocols and techniques necessary for the modern biologist to succeed in the professional, academic, or intellectual biology community. Provides students with a theoretical understanding of various techniques, their application, and the opportunity to master basic essential techniques in the laboratory. Topics include good laboratory practices, cell culture techniques, nucleic acid manipulation, macromolecular separation and detection, DNA analysis, chromatographic separations, spectrophotometry, microscopy, and radioisotope usage. Material and Supply Fee will be assessed.

BSC 6840 Professional Development in Biology

3 sh (may not be repeated for credit)

A review of contemporary protocols, techniques, and methods needed to succeed in the professional, academic, or intellectual biology community. Topics include 1) organization of the professional and academic biology environment, 2) reading, interpreting, organizing and publishing biological literature, 3) biological project development, presentation, and funding, 4) locating and securing positions in the biological sciences.

BSC 6905 Directed Study

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

BSC 6941 Internship in Biomedical/Pharmaceutical Industry

6 sh (may not be repeated for credit)

The student will be placed with a regional biotech / biomed / pharmaceutical company where they will be assigned to a lower or middle-level administrator and be engaged in the daily conduct of business in the industry. The industry mentor, in consultation with the faculty advisor, will assign a specific project to the student which engages information from one or more of the topics covered in the Professional Development course which must be completed in the time allotted. The student will be required to produce a written report describing their project and the project outcome in which they draw and defend conclusions and make and defend recommendations. Student performance will be assessed by the industry mentor in cooperation with the faculty advisor.

BSC 6971 Thesis

1-6 sh (may be repeated for up to 12.000 sh of credit)

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

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

BTE-Business Teacher Ed Courses**BTE 4401 Special Methods of Teaching Business Education**

4 sh (may not be repeated for credit)

Provides opportunities to become proficient in using special methods and procedural activities in business technology education classes. Credit may not be received in both BTE 4401 and EVT 4381.

BUL-Business Law Courses**BUL 3130 Legal Environment of Business**

3 sh (may not be repeated for credit)

Background of law and legal environment of business, including administrative, social, political and ethical aspects. Coverage of law includes contracts, sales under Uniform Commercial Code, negotiable instruments and personal and real property.

BUL 3905 Directed Study

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

BUL 4602 Legal Fundamentals of Healthcare and Public Health

3 sh (may be repeated for up to 6.000 sh of credit)

An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public's health is examined with an analysis public health authority. A general overview of the laws controlling the provision of private sector healthcare including industry and professional regulation, prohibited payment schemes, Bioethics, end-of-life issues, informed medical consent, and patient privacy. Offered concurrently with BUL 5605; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.

BUL 4905 Directed Study

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

BUL 5605 Legal Fundamentals of Healthcare and Public Health

3 sh (may be repeated for up to 6.000 sh of credit)

An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public's health is examined with an analysis public health authority. A general overview of the laws controlling the provision of private sector healthcare including industry and professional regulation, prohibited payment schemes, Bioethics, end-of-life issues, informed medical consent, and patient privacy. Offered concurrently with BUL 4602; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.

BUL 5831 Commercial Law
3 sh (may not be repeated for credit)

Study of selected topics in law pertaining to business transactions, business environment and associations, and financial securities.

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

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

CAP-Computer Applications Courses

CAP 4033C 3D Modeling and Animation
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2334 OR COP 2830

Introduction to basic principles of 3D modeling and animation. Students use popular commercial software to create 3D models and animation. Students will be introduced to aspects of 3D modeling and animation which include working with objects, models, textures, lighting, particle effects and rendering. Permission is required.

CAP 4053 AI Programming for Intelligent Environments
3 sh (may not be repeated for credit)
Prerequisite: COP 3530

Introduction to the use of AI methods and programming for the development of intelligent systems, including game AI systems, robotic applications, and educational environments. Students will identify an appropriate AI project topic of interest to them, and work individually or as teams to design, develop, and evaluate an AI system for that topic.

CAP 4601 Artificial Intelligence
3 sh (may not be repeated for credit)
Prerequisite: COP 3411 OR COP 3530

Introduction to Artificial Intelligence principles and techniques. Students will learn about core AI techniques for solving complex problems, including search strategies, knowledge-based techniques, and agent-based systems. Overview of AI topics such as intelligent agents, machine learning, as well as AI applications.

CAP 4710 Computer Graphics and Simulation
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND MAS 3105

This course provides foundational concepts in computer graphics and simulations that enable students to develop new interactive 2D and 3D computer visualizations. Students will be able to develop and evaluate their programs in state of the art computing and virtual reality labs at the School of Science & Engineering.

CAP 4770 Data Mining
3 sh (may not be repeated for credit)
Prerequisite: COP 4710

Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining and decision tree induction. Offered concurrently with CAP 5771; graduate students will be assigned additional work.

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

CAP 5600 Introduction to Artificial Intelligence
3 sh (may not be repeated for credit)

Introduction to basic Artificial Intelligence theories and methods for solving complex and difficult problems using computers; goal-oriented procedures, search problems, knowledge representation and machine learning. Topics will include intelligent systems such as expert systems, intelligent agents and robots. Will be conducted within a cognitive science framework.

CAP 5701 Computer Graphics and Simulation
3 sh (may not be repeated for credit)
Prerequisite: COP 3530 AND MAC 2312 AND MAS 3105

This course provides foundational concepts in computer graphics and simulations that enable students to develop new interactive 2D and 3D computer visualizations. Students will be able to develop and evaluate their programs in state of the art computing and virtual reality labs at the School of Science & Engineering.

CAP 5771 Data Mining
3 sh (may not be repeated for credit)
Prerequisite: COP 5725

Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining, decision tree induction, bayesian classification and prediction, and cluster analysis.

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

CAP 6772 Data Warehousing
3 sh (may not be repeated for credit)
Prerequisite: COP 5725

The primary focus of this course is on Data Warehousing and its applications to business intelligence. Some areas of concentration are: requirements gathering for data warehousing; data warehouse architecture; dimensional model design for data warehousing; physical database design for data warehousing; extracting, transforming, and loading strategies; introduction to business intelligence; design and development of business intelligence applications; expansion and support of a data warehouse. Prerequisites: COP5725, minimum grade of C.

CAP 6777 Web Data Mining
3 sh (may not be repeated for credit)
Prerequisite: CAP 5771 AND COP 5725

The primary focus of this course is on Web usage mining and its applications to e-commerce and business intelligence. We will consider techniques from machine learning, data mining, text mining, and databases to extract useful knowledge from Web data which could be used for site management, automatic personalization, recommendation, and user profiling. The first half of the course will focus on a detailed overview of the data mining process and techniques, specifically those that are most relevant to Web data mining. The second half will concentrate on the applications of these techniques to Web and e-commerce data, and their use in Web analytics, user profiling and personalization.

CAP 6782C Big Data Analytics in the Cloud
3 sh (may not be repeated for credit)
Prerequisite: COP 5007 AND COP 5725

This course examines how to perform big data analytics in a cloud environment using currently accepted practices. The course will also examine how to load, query and visualize data in the cloud, along with topics on the architecture, security concerns and cost management in a cloud environment.

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

CBH-Comp Psych Animal Behav Courses

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

CCJ-Crimin Criminal Justice Courses

CCJ 2002 Survey of Crime and Justice
3 sh (may not be repeated for credit)

Provides an introduction to the issues of crime and justice in the United States. Discusses the complexities of studying crime and evaluates the role of various criminal justice subsystems. General Education: Social Science - Behavioral Perspectives.

CCJ 3014 Criminology
3 sh (may not be repeated for credit)

Examines the causes, types, and patterns of crime in society. Major schools of thought and current research are introduced, compared, and contrasted in the study of crime and its social context.

CCJ 3024 American Justice System
3 sh (may not be repeated for credit)

Introductory analysis of the American justice system. Structure, organization and process of the justice system, the roles and responsibilities of justice professionals, and the dynamics of the justice system in a democratic society.

CCJ 3060 Ethics and the Justice System
3 sh (may not be repeated for credit)

Identification and analysis of ethical issues in the American justice system.

CCJ 3450 Criminal Justice Management and Organization
3 sh (may not be repeated for credit)

Acquaints student with the basic management processes affecting criminal justice agencies, develops the student's ability to analyze management problems and apply effective interventions to those problems in police departments, courts, and corrections agencies.

CCJ 3553 Family Crime and Violence
3 sh (may not be repeated for credit)

Survey of major issues related to family relationships and criminal activity, including theoretical explanations for family violence, patterns of family violence in the United States, and how family relationships during childhood can affect long-term behavior. This course will help to elucidate some of the most important elements of the connection between family relationships and crime.

CCJ 3654 Drugs, Crime, and Criminal Justice
3 sh (may not be repeated for credit)

Explores the interactions between drugs, crime, and society. Relevant history, theory, and research related to drug use, prevention, rehabilitation, and the drug-crime link will be explored critically. Additionally, this course will examine the pharmacology of drugs and the prevalence of usage. As such, this course aims to provide a foundation for a better understanding the relationship between drugs, crime, and the criminal justice system.

CCJ 3666 Victimology
3 sh (may not be repeated for credit)

The study of the interrelationships between crime, criminals, victims, and the criminal justice system. Areas of emphasis include victim's rights, restorative justice, as well as the psychological, financial, and medical needs and problems of the victim.

CCJ 3678 Race, Gender, Ethnicity, and Crime
3 sh (may not be repeated for credit)

Analysis of the demographic state of affairs in criminal justice in the United States. Designed to elicit discussion regarding the interrelationships between race, gender, ethnicity, and the criminal justice system. Meets Multicultural Requirement.

CCJ 3691 Sex Offenses and the Offender
3 sh (may not be repeated for credit)

Comprehensive overview of psychological, sociological and legal issues related to sex offenses. Additionally, the sexual offenders and different typologies of the sex offender will be discussed.

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

CCJ 4026 Contemporary Issues in Criminal Justice
3 sh (may not be repeated for credit)

Examines the nature and extent of crime in modern Western society. Emphasis placed on issues selected from, but not limited to, emerging patterns of violence, organized crime, white-collar crime, victimless crime, corruption, and those crime strategies deemed appropriate in a democracy.

CCJ 4141 Restorative Justice
3 sh (may not be repeated for credit)

Introduces the philosophy of restorative justice. Students critically analyze and compare retributive justice with restorative justice. Explores various restorative justice methodologies and evaluation of those methodologies. Hands on instruction in the use of restorative practices will be given.

CCJ 4644 White Collar Crime
3 sh (may not be repeated for credit)

Considers the question "what is white-collar crime?" and the implications associated with enforcement of laws related to white-collar criminality, investigation and prosecution of such offenses and sentencing of white-collar offenders. Various forms of white-collar crime will be examined and illustrated through case studies and research, including estimates of cost, victim and offender profiles, and legal issues. Examines theoretical explanations for white-collar crime and questions of corporate liability.

CCJ 4700 Research Design in Criminal Justice
3 sh (may not be repeated for credit)

Designed to give students an understanding of the basic principles and practices of empirical research as they are practiced in criminal justice and to enhance students' critical thinking skills with respect to criminal justice programs and proposals. Gordon Rule: Writing.

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

CCJ 4931 Special Topics in Criminal Justice
3 sh (may be repeated for up to 18.000 sh of credit)

The study of special issues in criminal justice. Subject matter will vary each semester to reflect an in-depth study of particular issues (e.g. gangs) or fields of criminology (e.g. corrections and theories of punishment) being examined. This includes grounding course content in criminological theory, as well as related theoretical frameworks.

CCJ 4939 Criminal Justice Seminar
3 sh (may not be repeated for credit)

Prerequisite: (CCJ 3014 AND CCJ 3024 AND CCJ 4700) OR CJC 4010 OR CJE 4110 OR CJL 3510

This capstone class is a comprehensive and critical review of the criminal justice curriculum with a focus on contemporary issues. This seminar will help students explore and prepare for a career in criminal justice and/or graduate education. Students are provided the opportunity to explore current criminal justice issues and criminal justice careers through an integration of knowledge gained in the criminal justice curriculum. Students will demonstrate oral and written communication skills.

CCJ 4940 Criminal Justice Internship
1-6 sh (may be repeated for up to 9.000 sh of credit)
Prerequisite: ((CCJ 3014 AND CCJ 3024 AND CCJ 4700)) AND (CJC 4010 OR CJE 4110 OR CJL 3510)

Internship in field of criminal justice intended to give field observation and experience. This internship is a cooperative effort between the criminal justice program at the University of West Florida and public or private community agencies. The purpose of the internship is to give students the opportunity to apply their education to actual work situations. The student works under the supervision of an agency professional. A 3 credit hour internship may be used to satisfy the capstone experience in the criminal justice core requirements.

CCJ 5006 Criminal Justice Administration
3 sh (may not be repeated for credit)

Focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. Includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

CCJ 5008 Criminal Justice Theory
3 sh (may not be repeated for credit)

Analyzes the theoretical perspectives associated with the policies, organizations, decisions, and operations of criminal justice systems, agencies, and individuals. Examines classical and contemporary research in criminal justice.

CCJ 5018 Crime and Public Policy
3 sh (may not be repeated for credit)

Analysis of various policy initiatives designed to reduce the level of crime. Applies elements of criminological theory and research methods to critically evaluate the effectiveness of policies.

CCJ 5669 Race, Ethnicity, Gender, and Criminal Justice
3 sh (may not be repeated for credit)

Dissects the pervasive links between crime, justice, race, ethnicity, and gender. Analyzes the challenges posed by rendering justice in a multicultural society.

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

CCJ 6061 Criminological Theory
3 sh (may not be repeated for credit)

Examines criminological theories with emphasis on the origins and applications of relevant theoretical approaches to crime and criminally deviant behavior. Addresses theoretical concepts and propositions of most (though not all) of the major criminological theories, the related empirical research that has tested these theories, and the corresponding policy implications.

CCJ 6145 Restorative Justice
3 sh (may not be repeated for credit)

Examines the principles of restorative justice from a critical perspective. A restorative justice approach is utilized to gain insight into contemporary criminal justice practice and policies.

CCJ 6427 Issues in Contemporary Criminal Justice
3 sh (may not be repeated for credit)

An in-depth study of issues confronting 21st Century criminal justice systems. Topics include those associated with current events and controversies.

CCJ 6704 Research Methodology
3 sh (may not be repeated for credit)

Issues related to research methods and data analysis as they are applied in the field of criminal justice and criminology. What constitutes scientifically acceptable inquiry and how to conduct empirical research.

CCJ 6705 Analysis of Quantitative and Qualitative Data
3 sh (may not be repeated for credit)
Prerequisite: CCJ 6704

Methods and techniques for diagnostics, management, and analysis of data in both quantitative and qualitative nature. Statistical theory and research design issues along with hands-on computer experience using computerized statistical programs such as SPSS.

CCJ 6745 Policing and Society
3 sh (may not be repeated for credit)

Analysis of classical and contemporary readings that examine the unique position, organization, and challenges of policing a complex society. Also explores the future of policing.

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

CCJ 6910 Criminal Justice Area Paper
3 sh (may not be repeated for credit)

Under the direction of the faculty, the student prepares a comprehensive analysis of a topic within criminal justice. The paper will include a critical and comprehensive review of the literature related to the chosen topic. The paper may include a research proposal and/or presentation of research findings.

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

Designed to provide students with specialized knowledge in a particular field of criminal justice such as juvenile justice/ corrections or on a cutting edge topic of relevance to criminal justice practitioners such as restorative justice or homeland security.

CDA-Computer Design/Archit Courses

CDA 3101 Introduction to Computer Organization
3 sh (may not be repeated for credit)
Prerequisite: COP 2253 OR COP 2334 OR EEL 4834

Introduction to the organization and operation of a digital computer including the internal representation of data and instructions, processor design and execution along with bus and I-O subsystems and assembly language programming.

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

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

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

CEN-Computer Engineering Courses

CEN 3031 Software Engineering I
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253

Preparation of software planning, specifications, design, coding, testing and maintenance. Familiarization with the team approach to large software system development with an emphasis on the early part of the software lifecycle.

CEN 3032 Software Engineering II
3 sh (may not be repeated for credit)
Prerequisite: ((CEN 3031 AND COP 3022)) AND (COP 3530)

Small team development of different software components that are then integrated into a complete software system. Emphasis on the later part of the software lifecycle.

CEN 4053 Software Engineering Management
3 sh (may not be repeated for credit)
Prerequisite: CEN 3032

Reviews concepts and principles related to the management of software development and evolution projects.

CEN 4078 Secure Software Development
3 sh (may not be repeated for credit)
Prerequisite: (COP 3022 OR COP 4331) AND (COP 3530)

Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles.

CEN 4340C IT Infrastructure Planning, Acquisition, and Integration
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 2830

A systematic examination of the hardware and software analysis and design or information technology systems. Acquisition of assets for integration into a new or existing infrastructure. Explores what makes IT projects different from other types of systems and how the principles and methods of system development can be integrated to define the IT system. Topics include hardware and software system implementation, information assurance, hardware and software catastrophe recovery, hardware and software configuration management, software license knowledge and monitoring, system hardware and software infrastructure support, infrastructure environmental concerns, and data and system integration.

CEN 4400 Introduction to Operations Research
3 sh (may not be repeated for credit)
Prerequisite: (MAC 2311 OR MAC 2233) AND (STA 2023 OR STA 4321)

Introduction to methodology and mathematical techniques of operations research, a scientific approach to problem solving and decision-making for executive management. Topics include linear programming, inventory theory, queuing theory, simulation and PERT-CPM, with emphasis on computer application. Some experience with computer programming is required.

CEN 4721 Human-Computer Interaction
3 sh (may not be repeated for credit)

Introduces students to the design of the interaction between people and computers. It will give students insight and experience in key issues of HCI design, and will sample different areas related to human-computer interaction. In class and in discussion sections, students will discuss issues and tradeoffs in interaction design, propose effective designs, and evaluate alternative solutions to design problems.

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

CEN 4910 Undergraduate Computer Science Research
1-4 sh (may be repeated for up to 7.000 sh of credit)

Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CEN 5003 Software Engineering Foundations: Operating Systems and Networks

3 sh (may not be repeated for credit)

Prerequisite: COP 5007

A course in the Software Engineering Foundation Series on principles/concepts of modern operating systems and networks used in developing high-quality software systems. Permission is required.

CEN 5079 Secure Software Development

3 sh (may not be repeated for credit)

Prerequisite: COP 5007

Examines the importance of building security into the design, implementation and testing phases of software development. Covers coding techniques that avoid known vulnerabilities and test strategies that can uncover previously unknown weaknesses. Includes discussion of security policies and design principles. Prior to taking this course students should have knowledge and skill in software development. Offered concurrently CEN 4078; Graduate students will have additional work.

CEN 5905 Directed Study

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

CEN 5915 Graduate Computer Science Research

1-4 sh (may not be repeated for credit)

Graduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meet 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

4 sh (may not be repeated for credit)

Prerequisite: COP 5007

Review of current topics and trends in software engineering. Prominent software engineering approaches, methods, and processes (e.g., CMMI, Agile processes) are examined and compared. Culminates with a detailed study of one specific software engineering process.

CEN 6027 Software Engineering Process Improvement

3 sh (may not be repeated for credit)

Prerequisite: CEN 6016

This course examines concepts and methods related to performing process improvement for improving the quality of software systems developed/maintained within organizations. Various process improvement models will be considered with an emphasis on the Capability Maturity Model Integration model. Offered Fall Semester only.

CEN 6064 Software Design

4 sh (may not be repeated for credit)

Prerequisite: CEN 6016

Examination of the design principles/methodologies appropriate for developing complex software systems. Goals include comparative analysis of existing design methods, object-oriented design paradigms, and the extensions of modern design techniques and principles to the design of software with distributed implementations in mind. Offered Spring semester only.

CEN 6070 Software Testing and Verification

3 sh (may not be repeated for credit)

Prerequisite: CEN 6016

Introduction to the main concepts and methods used to produce correct software. Focuses on software quality assurance through systematic software testing. Students learn to create test sets that exercise software to specified coverage standards and to conduct software inspections. Other verification and validation methods selected by the instructor are also introduced.

CEN 6074 Software Assurance and Security

3 sh (may not be repeated for credit)

Prerequisite: CEN 6016

Concepts and principles related to developing and maintaining secure software systems with no exploitable vulnerabilities with high levels of integrity and reliability.

CEN 6075 Software Specification and Implementation

3 sh (may not be repeated for credit)

Prerequisite: CEN 6016

Study of the concepts and importance of software specification as an essential stage in the development of a software product. Students learn to prepare software specifications using both formal specification techniques and informal text-based specifications that follow a standard model.

CEN 6095 Software Engineering Practice and Tools

4 sh (may not be repeated for credit)

Prerequisite: CEN 6016 AND COP 5007

Practicum course simulating best practices used in the software industry for maintaining software systems. Emphasis on the use of modern software methods and tools. Permission is required.

CEN 6905 Directed Study

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

CET-Computer Engineering Tech Courses**CET 3135 Microcontroller Technology**

3 sh (may not be repeated for credit)

Exploration of a wide range of topics in guiding students through real-time control software and interfacing, concentrating on applications of microcontroller.

CET 3135L Microcontroller Laboratory

1 sh (may not be repeated for credit)

Prerequisite: MAC 1105

Co-requisite: CET 3135

Laboratory for CET 3135 Microcontrollers. Application of microcontrollers in various real-world settings.

CET 3450 Data Visualization

3 sh (may not be repeated for credit)

Students will develop skills to efficiently and effectively display data, using a variety of tools that can be used to prepare and present the data in visually compelling manners. Data visualization tools have wide applicability in a wide variety of settings and environments in documentation and presentations.

CGS-Computer General Studies Courses

CGS 2060 Excursions in Computing
3 sh (may not be repeated for credit)

Explore and understand the role of computing in today's highly technological world. Examine the effective and ethical use of computing technology to address general and specialized domains and practice project delivery deadlines involving this technology. Topics include: role of computing, recent advances in computer hardware, system software options, system connectivity, time management and presentation technology, tools for researching current technology, algorithms, and limits of computing ethics. General Education: Natural Sciences - Lecture.

CGS 2060L Excursions in Computing Lab
1 sh (may not be repeated for credit)

Computing experiments in a contemporary interactive environment. Experiments will reinforce the omnipresence of computing in society. General Education: Natural Sciences - Laboratory.

CGS 2570 Personal Computer Applications
3 sh (may not be repeated for credit)

Internet Based online course, which provides practical experience with current popular microcomputer application packages. Students typically learn to use word-processing, spreadsheet, database software, and PowerPoint. Required for CIS majors but may not be taken for credit by CS majors.

CGS 3183 Web Design for E-Commerce
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570 OR CGS 3853

Introduces the student to the concepts and principles of designing software tools used in web applications for electronic commerce. The student will gain hands on experience in developing, manipulating, and implementing web tools for electronic transactions such as a web database and an electronic shopping cart. Credit may not be received in both CGS 3183 and CGS 3172.

CGS 3284 Network Management and Design
12 sh (may not be repeated for credit)

Develops the skills required to successfully manage and troubleshoot the ongoing needs of Microsoft Windows 2000 and 2003 server-based operating system environments, including Windows.Net Server. May not be taken for credit by CS/CIS majors. Permission is required.

CGS 3464 Programming Using Visual Basic for Non-Majors
3 sh (may not be repeated for credit)
Prerequisite: CGS 2570

An introductory course in programming for non-majors. Incorporates the basic concepts of programming, programming logic and problem solving, as well as the design features of a visual, event driven language. Students will use a visual interface to program useful applications.

CGS 3604 Applications of Information Technology
3 sh (may not be repeated for credit)
Prerequisite: (CGS 2570) AND (MAC 1105 OR MAC 1140)

Investigates current applications of information technology in business, scientific research, education, and media, and examines issues facing the information technology professional working in a variety of disciplines.

CGS 3853 Web Page Design
3 sh (may not be repeated for credit)

Techniques for the creation of web sites that are flexible, scalable, and that take advantage of the World Wide Web. Topics include: FTP, HTML tags and web servers. Requires some research and project development. May not be taken for credit by CS / CIS majors. Credit may not be received in both CGS 3853 and CGS 3823.

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

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

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

CHI-Chinese Courses

CHI 1100 Chinese Language I
4 sh (may not be repeated for credit)

Chinese I is a semester-long course designed for non-native Chinese learners. It introduces students to the official Chinese language-Mandarin (or Putonghua). The course aims to help students obtain an adequate mastery of basic language skills in both spoken and written Chinese and lay a good foundation for further study of this language. Throughout the semester, this class will also introduce the Chinese culture and tradition to students. Students will learn the Chinese phonology, vocabulary and grammar, and sentence patterns; they will also learn how to read and write Chinese characters. Specifically, through such activities as vocabulary-in-context, sentence pattern practice, listening and reading comprehension, dialogue and role-play, students will learn to use Chinese in speech and writing in common, real-life scenarios.

CHI 1101 Chinese Language II
4 sh (may not be repeated for credit)
Prerequisite: CHI 1100

This semester-long course, as a continuation of Chinese Language I is designed for non-native Chinese speakers with one semester (or less than one year) of Chinese; it continues to emphasize the basic skills of listening, speaking, reading, and writing. In this course, students will learn more vocabulary and grammar while consolidating what they have learned of Chinese in the first semester; students will learn a new vocabulary of more than 300 Chinese characters. At the end of this second semester of Chinese, students should be able to converse on more daily topics with relative ease and effectiveness while developing further reading and writing abilities. In this course, students will continue to develop and integrate the skills of listening, speaking, reading, and writing in Chinese and will learn more about Chinese culture and traditions.

CHI 2200 Chinese Language III
4 sh (may not be repeated for credit)
Prerequisite: CHI 1101

Chinese III is a semester-long course designed for non-native Chinese learners. This course aims to help students gain further listening, speaking, reading and writing skills in the official Chinese language? Mandarin (or Putonghua), laying a foundation for students to take HSK Level I, II and III. Throughout the semester, students will learn Chinese vocabulary, grammar and sentence patterns; they will also learn how to write and use these Chinese characters. This course will introduce to students more Chinese culture and traditions. Specifically, through such activities as vocabulary-in-context, sentence pattern practice, listening and reading comprehension, dialogue and role-play, practical reading and writing tasks, students will learn to use Chinese in speech and writing in more specific and professional scenarios.

CHM-Chemistry Courses

CHM 1020 Concepts in Chemistry
3 sh (may not be repeated for credit)

Introduces the non-scientist to current and critical issues in chemistry. Readings from popular science publications. Discussion on topics such as polymers, radioactivity, toxic chemicals, energy, etc. Registration for the corresponding lab is encouraged but not required. General Education: Natural Sciences - Lecture.

CHM 1020L Concepts in Chemistry Lab
1 sh (may not be repeated for credit)
Prerequisite: CHM 1020*

Introduction to laboratory safety, experimental techniques. Laboratory experiments on polymers, radioactivity, toxic chemicals, energy, etc. Material and supply fee will be assessed. A grade of "C-" or higher is required in prerequisite courses. General Education: Natural Sciences - Laboratory.

CHM 1032 Fundamentals of General Chemistry
3 sh (may not be repeated for credit)

A one semester course presenting an introduction to the principles of general chemistry. Designed for students majoring in sciences other than biology and chemistry. Cannot be used to satisfy major requirements in chemistry or biology. General Education: Natural Sciences - Lecture.

CHM 1032L Fundamentals of General Chemistry Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 1032*

Laboratory experiences illustrating the fundamental principles of CHM 1032. Students taking CHM 1032 concurrently are required to withdraw from CHM 1032L if they withdraw from CHM 1032. A grade of "C-" or higher is required in prerequisite courses. Material and supply fee will be assessed. General Education: Natural Sciences - Laboratory.

CHM 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

CHM 2045 General Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1140* OR MAC 2311*

Chemical and physical properties, relationship between observables and concepts and the development of a theoretical framework. Topics will include atomic and molecular structure, theories of bonding, properties of the elements and periodicity. A grade of "C-" or higher is required in prerequisite courses. General Education: Natural Sciences - Lecture.

CHM 2045L General Chemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2045*

Introduction to laboratory safety, experimental techniques, graphing of data, chemical reactivity and separations, calorimetry and volumetric analysis. Material and supply fee will be assessed. Students taking CHM 2045 concurrently are required to withdraw from CHM 2045L if they withdraw from CHM 2045. A grade of "C-" or higher is required in prerequisite courses. General Education: Natural Sciences - Laboratory.

CHM 2046 General Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

Continuation of CHM 2045 with emphasis on chemical calculations and problem solving. Topics include thermodynamics, equilibria, kinetics and an introduction to transition metal complexes. A grade of "C-" or higher is required in prerequisite courses. General Education: Natural Sciences - Lecture.

CHM 2046L General Chemistry II Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046*

Experiments based on colligative properties, qualitative analysis, solution equilibria, kinetics, electrochemistry, radioactivity and synthesis. Material and supply fee will be assessed. Students taking CHM 2046 concurrently are required to withdraw from CHM 2046L if they withdraw from CHM 2046. A grade of "C-" or higher is required in prerequisite courses. General Education: Natural Sciences - Laboratory.

CHM 2210 Organic Chemistry I
3 sh (may not be repeated for credit)
Prerequisite: CHM 2046

Nomenclature, structure, fundamental reactions, mechanistic interpretation of reactions, and spectroscopy.

CHM 2210L Organic Chemistry I Laboratory
1 sh (may not be repeated for credit)
Prerequisite: CHM 2046L AND CHM 2210*

Introduction to laboratory techniques in Organic Chemistry. Isolation, purification, and synthesis. Material and supply fee will be assessed. Students taking CHM 2210 concurrently are required to withdraw from CHM 2210L if they withdraw from CHM 2210. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211 Organic Chemistry II
3 sh (may not be repeated for credit)
Prerequisite: CHM 2210

Nucleophilic and electrophilic substitution reactions, additions, eliminations, redox and rearrangement reactions, carbohydrates, amino acids, peptides, isoprenoids. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211L Organic Chemistry II Lab

1 sh (may not be repeated for credit)

Prerequisite: CHM 2211*

Multistep synthesis, separation of mixtures, identification of unknown organic compounds by classical and spectroscopic techniques.

Material and supply fee will be assessed. Students taking CHM 2211 concurrently are required to withdraw from CHM 2211L if they withdraw from CHM 2211. A grade of "C-" or higher is required in prerequisite courses.

CHM 3120 Analytical 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

1 sh (may not be repeated for credit)

Prerequisite: CHM 2046L AND CHM 3120*

Co-requisite: CHM 3120

Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and Supply Fee will be assessed. 8 sh of general chemistry required. A grade of "C-" or better is required in the prerequisite.

CHM 3230 Organic Chemistry III

3 sh (may not be repeated for credit)

Prerequisite: CHM 2210/L AND CHM 2211/L*

Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometallics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8 sh of organic chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3400C Basic Physical Chemistry

4 sh (may not be repeated for credit)

Prerequisite: (CHM 2211/L AND MAC 2312) OR PHY 2054/L OR PHY 2048/L

A survey of the principles of Structure, Equilibrium, and Dynamics, applied to chemical systems. Includes experiments and other hands-on learning experiences.

CHM 3410 Physical Chemistry I

5 sh (may not be repeated for credit)

Prerequisite: CHM 2211 AND MAC 2312 AND PHY 2049/L*

Properties of gases, kinetic theory, chemical thermodynamics, heterogeneous equilibria, electrochemistry. A grade of "C-" or higher is required in prerequisite courses.

CHM 3411 Physical Chemistry II

4 sh (may not be repeated for credit)

Prerequisite: CHM 3410

Atomic, molecular structure, spectroscopy, introduction to quantum theory and statistical mechanics. A grade of "C-" or higher is required in prerequisite courses.

CHM 3740L Advanced Laboratory Techniques

2 sh (may not be repeated for credit)

Prerequisite: CHM 2211L AND CHM 3230*

Experimental work including advanced laboratory techniques for the synthesis and purification of organic, organometallic and inorganic complexes. Training in the use of instrumentation (chromatographic techniques, NMR, GC / MS, IR, UV-Vis, ORD / CD, etc.) for the purification and characterization of these materials. Students will be introduced to the use of the chemical literature, as well as record keeping and report writing. Material and supply fee will be assessed.

CHM 3741L Physical Chemistry Laboratory

2 sh (may not be repeated for credit)

Prerequisite: CHM 3411* AND CHM 3740L

Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3905 Directed Study

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

CHM 3940 Chemistry Internship

1 sh (may not be repeated for credit)

Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

CHM 4130 Instrumental Analysis

3 sh (may be repeated for up to 4.000 sh of credit)

Prerequisite: (CHM 3120) AND (CHM 3400C OR CHM 3411)

Physical chemical methods of chemical analysis. Required lab. Material and Supply Fee will be assessed for corresponding lab. A grade of "C-" or higher is required in prerequisite courses. Offered concurrently with CHM 5134; graduate students will be assigned additional work.

CHM 4130L Instrumental Analysis lab

1 sh (may not be repeated for credit)

Prerequisite: (CHM 3120) AND (CHM 3400C OR CHM 3411)

Co-requisite: CHM 4130

Corresponding lab for Instrumental Analysis lab.

CHM 4455 Introduction to Polymer Science

2 sh (may not be repeated for credit)

Prerequisite: ((CHM 2210/L AND CHM 2211/L)) AND (CHM 3400C OR CHM 3410)

Intended to introduce students to some of the major concepts Polymer Science: An Introduction to Macromolecules - Terms and Definitions; Structure and Bonding in Polymers; Step Growth Polymerization; Chain Growth Polymerization; Ionic Polymerization and Living Polymers; Copolymers; Chain Configurations, the Theta State and Chi Parameter; The Glass Transition Temperature; Biological Polymers; and Plastics Recycling.

CHM 4455L Introduction to Polymer Science Laboratory

1 sh (may not be repeated for credit)

Prerequisite: ((CHM 2210/L AND CHM 2211/L)) AND (CHM 3400C OR CHM 3410)

Co-requisite: CHM 4455

Laboratory to accompany CHM 4455. Will provide fundamental laboratory skills in polymer synthesis and analysis. Material and supply fee will be assessed.

CHM 4610L Inorganic Synthesis

1 sh (may not be repeated for credit)

Prerequisite: CHM 4611*

Modern techniques in the synthesis, separation, purification and characterization of inorganic compounds. Material and Supply fee will be assessed.

CHM 4611 Inorganic Chemistry

4 sh (may not be repeated for credit)

Prerequisite: CHM 3400C OR CHM 3411

The structure, reactivity, kinetics and reaction mechanisms of inorganic and organometallic compounds.

CHM 4905 Directed Study

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

CHM 4912 Undergraduate Chemistry Research

1-4 sh (may be repeated for up to 12.000 sh of credit)

Prerequisite: CHM 3400C OR CHM 3411

Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CHM 4930 Seminar: Special Topics in Advanced Chemistry

3-4 sh (may be repeated for up to 12.000 sh of credit)

Prerequisite: CHM 3400C OR CHM 3411

Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 5932; graduate students will be assigned additional work.

CHM 4931 Seminars in Chemistry

1 sh (may not be repeated for credit)

The course will include seminars by visiting scientists, university faculty and students on current research in chemistry, as well as scientific literacy, professional ethics, hazard waste regulations, resume writing, and presentation skills.

CHM 5134 Instrumental Analysis

3 sh (may not be repeated for credit)

Physical chemical methods of chemical analysis. Required lab. Material and Supply Fee will be assessed for corresponding lab. A grade of "C-" or higher is required for all prerequisite courses. Offered concurrently with CHM 4130; graduate students will be assigned additional work.

CHM 5134L Instrumental Analysis Lab

1 sh (may not be repeated for credit)

Prerequisite: CHM 5134*

Physical chemical methods of chemical analysis. A grade of "C-" or higher is required for prerequisite courses. Offered concurrently with CHM 4130L; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

CHM 5932 Seminar: Special Topics in Advanced Chemistry

3-4 sh (may be repeated for up to 7.000 sh of credit)

Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 4930; graduate students will be assigned additional work.

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

CHS-Chemistry: Specialized Courses**CIS-Compt Sci Inform Systs Courses****CIS 2530 Introduction to Cyber Security**

3 sh (may not be repeated for credit)

This course introduces students to cyber security . It provides information related to cyber threats as well as the basic security design and information assurance fundamentals. In addition the course covers information assurance controlling laws and guidelines. General Education: Natural Sciences - Lecture.

CIS 3512 Software Documentation

3 sh (may not be repeated for credit)

Prerequisite: ENC 1102

Introduction to major concepts of software documentation. Emphasis on construction of software system artifacts that support team development and evolution of software systems (e.g., memos, letters, project proposals, progress reports, requirements, specifications, design, test plans, test reports, project reports). MLA, APA, and LaTeX publication standards will be applied. Open to all majors Gordon Rule: Writing.

CIS 3949 Cooperative Education

1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

CIS 4340 Web Server Technologies

3 sh (may not be repeated for credit)

Prerequisite: COP 2253 OR COP 2334* OR COP 2830 OR COP 4710

Introduction to web server technologies (representative technologies - ASP.net, ColdFusion). to develop web applications. Methods include user interfaces, database connectivity and interactivity and XML manipulation.

CIS 4361C IT Security

3 sh (may not be repeated for credit)

Prerequisite: COP 2253 OR COP 2830

Introduction to skills, knowledge, techniques, and tools required by information-technology security professionals. Topics include security and risk management, physical security, access control, cryptography, security architecture and design, security for networks and telecommunications, application security, and legal considerations.

CIS 4368 Introduction to Database Security

3 sh (may not be repeated for credit)

Prerequisite: COP 4710

The Database Security course follows guidelines set forth by the National Security Agency/Department of Homeland Security Centers of Academic Excellence in Information Assurance and Cyber Defense. This course is considered a core knowledge unit for institutions to be considered a Center of Academic Excellence. Database Security is designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This undergraduate course is a requirement for the B.S. in Cybersecurity and will be an elective for all other undergraduate Computer Science programs. Prerequisites: COP 4710, minimum grade of C-.

CIS 4385 Ethical Hacking and Penetration Testing

3 sh (may not be repeated for credit)

Prerequisite: COP 3022 OR COP 3530

This course provides a understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. The tools and methodology will focus on gathering information and identifying flaws and vulnerabilities in documentation, software and computer systems, and exploiting those flaws. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will be provided with an overview of computer crime laws. Offered concurrently with CIS 5396; graduate students will be assigned additional work. Credit cannot be received in both CIS 4385 and CIS 5396.

CIS 4590 Capstone Project I

3 sh (may not be repeated for credit)

Prerequisite: COP 4331

This is the first course of the two-course Capstone Project sequence for the Computer Science program. The course provides foundational software engineering concepts focusing on best practices and methods for designing, developing, and evaluating software systems. Students will work individually or as teams to identify a capstone project topic that focuses on developing a software system to solve a complex real-world problem. Students will develop a project proposal, plan and design specifications for their selected project topic. The final product will be the design of a software system and plan for system completion and evaluation, which will form the basis of their work in the Capstone Project II course. Prerequisites: COP 4331, minimum grade C-.

CIS 4592 Capstone Project II

3 sh (may not be repeated for credit)

Prerequisite: CIS 4590

This is the second course of the two-course Capstone Project sequence for the Computer Science Program. The second course provides additional software engineering concepts and skills for developing and evaluating software systems. Students will continue the project they started in Capstone I, and work individually or as teams to develop a software system to solve a complex real-world problem. Students will develop a project plan, multiple prototypes and a final software system for the project topic and design developed in Capstone I. Students will also develop a final report that includes an evaluation of their system and present their project outcomes.

CIS 4595C Capstone Systems Project

3 sh (may not be repeated for credit)

Prerequisite: CEN 3032 OR (CNT 4007C AND CNT 4014C)

Develop a software system for a real-world client while working in small teams. Develop and deliver relevant artifacts such as a project proposal, design, test plan, code, user's manual, and project log with metrics as the software system evolves throughout the course. A final presentation and evaluation of the project experience will be prepared.

CIS 4905 Directed Study

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

CIS 4911 IT Capstone Project

3 sh (may not be repeated for credit)

Prerequisite: CNT 4014C; Completion of 90 hours of college course work is required prior to taking this course.

Real-world experiential opportunities through observation, participation, and implementation of a project within campus or for other local organization. Development of project proposals, implementation of solutions and analysis of outcomes will be stressed. Course should be taken in the final semester of the degree program.

CIS 4941 Computer Science Internship

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

Supervised field practicum in computer-related position. May include activities in computer programming, database administration, web-development, systems administration, network security, etc. Graded on satisfactory / unsatisfactory basis only. Juniors or seniors with minimum cumulative GPA of 3.00 will be eligible. Permission is required.

CIS 5396 Ethical Hacking and Penetration Testing

3 sh (may not be repeated for credit)

Prerequisite: CDA 6415 AND COP 6025

This course provides a understanding of how to effectively protect computer networks. Students will learn the tools and penetration testing methodologies used by ethical hackers. The tools and methodology will focus on gathering information and identifying flaws and vulnerabilities in documentation, software and computer systems and exploiting those flaws. In addition, the course provides a thorough discussion of what and who an ethical hacker is and how important they are in protecting corporate and government data from cyber attacks. Students will be provided with an overview of computer crime laws. Offered concurrently with CIS 4385; graduate students will be assigned additional work. Credit may not be received in both CIS 5396 and CIS 4385.

CIS 5905 Directed Study

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

CIS 6376 Database Security
3 sh (may not be repeated for credit)
Prerequisite: COP 5725

Database Security is designed to teach students how database systems are used, managed, and issues associated with protecting the associated data assets. This course will cover various methods to ensure information confidentiality, integrity and availability on an assortment of data storage systems. This graduate course is a requirement for the M.S.A. in Cyber Security and will be an elective for all other graduate Computer Science programs. Prerequisites: COP 5725 minimum grade of C.

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

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

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

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

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

CIS 6971 Thesis
1-6 sh (may be repeated for up to 12.000 sh of credit)

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

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

CJC-Corrections Courses

CJC 4010 Punishment and Society
3 sh (may not be repeated for credit)

Basic analysis of correctional systems in the United States. Focus is on widely held conceptions of punishment, physical design and organizational structures of prison facilities, community based correctional options, the death penalty and the evaluation of correctional research. Other topics of interest include sentencing policy, key issues faced by prison administrators and prisoners as well as the role of the victim in corrections.

CJC 4167 Alternative Punishments
3 sh (may not be repeated for credit)

Introduces the student to the subject of alternative punishments including social, political, and economic conditions that have contributed to the development of alternative punishments. Identifies the types of alternative punishments and the effectiveness of such options. The needs of special offender populations for corrections alternatives are also explored.

CJC 6021 Penology
3 sh (may not be repeated for credit)

Classical and contemporary readings in corrections. Uses historical and philosophical contexts to critically assess contemporary correctional issues and introduces students to the importance of data-driven policy promoting critical evaluation and debate.

CJE-Law Enforcement Courses

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

The evolution and operation of criminal justice systems in other nations and cultures including the development of criminal justice in response to social, historical, and political factors. Includes a brief history of the world's legal systems and an analysis of key procedural and substantive similarities and differences. Associated topics include: administration and function of police, courts, and corrections, and a study and analysis of the increasing internationalization of both the incidence of crime and the administration of criminal justice.

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

Provides a foundation of various methods of community crime prevention (prevention outside the traditional confines of the CJS) and their effectiveness. Relevant theory and research related to neighborhood efforts at crime prevention, community policing, school crime prevention, and other situational prevention measures will be explored critically.

CJE 3674 Introduction to the Forensic Sciences
3 sh (may not be repeated for credit)

Forensic Science is the application of scientific disciplines and principles to the legal system, particularly the litigation in court of contested factual disputes. Examines the distinct fields of education and study that collectively comprise the forensic sciences. These fields include among others forensic psychiatry and psychology, forensic anthropology, forensic pathology, forensic toxicology, serology and DNA typing, questioned documents, crime scene investigation, forensic engineering, fingerprint evidence, polygraph and other investigative devices, and forensic chemistry including drug analysis. Credit may not be received in both CJE 3674 and CJE 3670.

CJE 3694 Cybercrime
3 sh (may not be repeated for credit)

Cybercrime is a course for students with a beginning interest in studying crimes committed using digital technology. The course explores the etiology of cybercrime, the various types of cybercrime, law enforcement response, and the prevention of digital crime.

CJE 4110 Police in a Free Society
3 sh (may not be repeated for credit)

Analysis of the role of and challenges to policing in a democratic society. Examination of contemporary and historical influences on police policy, personnel, and organization. Discussion of police function within society.

CJE 4161 Crime and Media
3 sh (may not be repeated for credit)

Analysis of the depiction of crime and the criminal justice system presented through the major mass media within America. Forms of media may include, but are not limited to: crime movies, television crime dramas, television news, the internet, and newspaper crime coverage. This course uses media as a learning tool to allow students to more deeply examine how the criminal justice system works and how society's reaction to crime is influenced by the media.

CJE 4610 Criminal Investigation
3 sh (may not be repeated for credit)

An introduction to criminal investigation. Topics will include investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation. Credit may not be received in both CJE 4610 and CCJ 4239.

CJE 4613 Homicide
3 sh (may not be repeated for credit)

An examination of homicide and its investigation. Includes types of homicide as well as death by natural and accidental causes. Reviews and expands on investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation.

CJJ-Juvenile Justice Courses

CJJ 4010 Juvenile Justice
3 sh (may not be repeated for credit)

Examines the nature and extent of delinquency in the United States and the system response to juvenile crime. Particular attention is given to theoretical explanations of juvenile delinquency and examination of how politics, courts, and correctional agencies respond to juvenile offenders, and the effectiveness of these responses. Credit may not be received in both CJJ 4010 and CCJ 4501.

CJJ 6020 Criminal Justice and the Juvenile
3 sh (may not be repeated for credit)

Explores the nature and extent of juvenile delinquency and examines explanatory models and theories of juvenile delinquency. Topics related to the juvenile justice system and the process, such as juvenile waiver to the adult court, diversion and deinstitutionalization, police interaction, and community intervention.

CJL-Law and Process Courses

CJL 3510 Judicial Process
3 sh (may not be repeated for credit)

Examination of the judicial component of the criminal justice system. Analysis of structure, procedures, and personnel of American courts. General discussion of the political and social influences on the judicial process and organization.

CJL 5521 Courts and Society
3 sh (may not be repeated for credit)

Analyzes the role of courts in American Society. Examines the various influences on judicial organization, process, and decision making. The impact of courts within society and the criminal justice system are also explored.

CLP-Clinical Psychology Courses

CLP 3008 Psychology of Personal Growth
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Psychology of Personal Growth is an experiential, theme-oriented class exploring life choice in the struggle for personal autonomy, adjustment, and growth. Themes for this class include review of childhood and adolescence, adulthood and autonomy, work and leisure, body image, gender roles, culture, sexuality, love, relationships, loneliness, death and loss, meaning, and values.

CLP 3144 Abnormal Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Broad overview of psychological disorders of children and adults including history of abnormal human behavior, research methods, theories and causes, and contemporary treatment. Typical topics include adjustment, mood, anxiety, somatoform, factitious, dissociative, substance-related, personality, and psychotic disorders (including schizophrenia).

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

CLP 4314 Health Psychology
3 sh (may not be repeated for credit)

Survey of contributions of the discipline of psychology to the promotion and maintenance of health and prevention and treatment of illness. Application of biopsychosocial model to health. Credit cannot be received in both CLP 4314 and PSY 4820.

CLP 4390 Introduction to Forensic Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

This upper-level undergraduate course is designed to be an exciting and intellectually challenging introduction to the study of Forensic Psychology. Forensic Psychology deals with the interplay between the disciplines of psychology and law. Specifically, this class examines the legal system through the use of psychological concepts, methods, and research results. Although the course covers both criminal and civil aspects of the legal system, the primary focus will be on the role of psychologists in those areas pertaining to the criminal legal system. Class content focuses on theory but also has a strong experiential component as well. Specifically, the class learning experience culminates in the production of a Mock Trial.

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

CLP 5166 Psychopathology
3 sh (may not be repeated for credit)

Students must take CLP 3144 before enrolling in this course. In depth analysis of child and adult psychological disorders focusing on practical application of the current diagnostic manual in developing diagnostic formulations. Emphasis on an integrative theoretical approach and the empirical foundation for theory, causes, and treatment of psychological disorders.

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

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

CNT-Computer Networks Courses

CNT 4007C Theory and Fundamentals of Networks

3 sh (may not be repeated for credit)

Prerequisite: COP 2253 OR COP 2334 OR COP 2830

A functional systematic examination of the key components and theories of modern computer networks, including protocol stack, mobile networking, network security, multimedia networking and network management. Emphasizes the internet for studying network fundamentals and includes the use of tools to analyze network operations.

CNT 4014C IT Administration

3 sh (may not be repeated for credit)

Prerequisite: COP 2253 OR COP 2830

Introduction to principles behind design, installation, and support of organization's LAN, WAN, network segment, intranet, or Internet, including maintenance of network hardware and software, and monitoring of network to ensure availability to system users. Topics include gathering of data to determine customer needs, identification, interpretation, and evaluation of system and network requirements and technical-management issues.

CNT 4403 Computer and Network Security

3 sh (may not be repeated for credit)

Prerequisite: COP 4610C OR COP 4634C

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

CNT 4416 Cyber War Gaming

3 sh (may not be repeated for credit)

Prerequisite: CDA 3101 AND CIS 4385 AND CNT 4403

Every organization, whether part of the government or the private sector, needs battle-tested IT personnel in order to defend its networks against attack. The most effective way to provide this experience is to recreate the exact scenarios, no matter how nefarious, they will see in the real world. This course provides exercises that use different specialties (network, security, visualization, software, etc.) into color-coded red and blue teams that perform specific roles in attacking and defending IT infrastructures. Prerequisites: CNT 4403, CIS 4385 and CDA 3101 (minimum grade C-).

CNT 6107 Advanced Computer Networks

3 sh (may not be repeated for credit)

Topics to be addressed include Local Area Networks (LANS), review of LANS Protocols, TCP/IP Suite and Data Networks. Overview of probability and stochastic processes, queuing analysis and self-similar traffic, high speed LANS, link-level flow and error control, routing and switching. Wireless and mobile communications, network security and gigabit ethernet. Credit may not be received in both CNT 6107 and CEN 6520.

CNT 6519 Wireless Network Security

3 sh (may not be repeated for credit)

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

COM-Communication Courses

COM 3404 Nonverbal Communication

3 sh (may not be repeated for credit)

Prerequisite: SPC 3301

Provides a comprehensive introduction to the role of nonverbal communication in the communication process, including major principles, theories, and research trends. Emphasis on observing and analyzing the functions of nonverbal communication in a variety of work and personal contexts.

COM 3905 Directed Study

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

COM 3948 Service Learning Field Study II

1-3 sh (may be repeated for up to 4.000 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlations between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours' work per week must be done at the field site per semester hour of credit.

COM 4014 Gender and Communication

3 sh (may not be repeated for credit)

Examines the roles gender plays in managing diversity in the workplace, developing personal relationships and exploring mass media in contemporary culture. Comparative study of characteristics of masculine/feminine communication in conversation. Meets Multicultural Requirement.

COM 4022 Health Communication

3 sh (may not be repeated for credit)

Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education, and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 5025; graduate students will be assigned additional work.

COM 4103 Leadership Communication

3 sh (may not be repeated for credit)

Promotes leadership development through study of leadership theory and concepts and practical application of leadership laboratory experience. Based on a servant leader philosophy, focuses on building leadership competencies in interpersonal communication, public presentations, team building, working in multicultural environments, mentoring, problem solving and influence strategies used in interpersonal and public forums to bring about community and organizational change. Leadership skill-building opportunity to all participants. Credit may not be received in both COM 4103 and COM 4103C.

COM 4110 Business and Professional Communication

3 sh (may not be repeated for credit)

Practical understanding of communication practices affecting the work place. Emphasis on managing work relationships, listening, organizational interviews, professional presentations, communication technologies and multi-cultural diversity.

COM 4120 Organizational Communication
3 sh (may not be repeated for credit)

Examines the dynamics of communicating within organizations and with stakeholders. Students analyze case studies of actual organizations and build skills related to teamwork, motivation, morale-building, leadership, decision-making, and more.

COM 4465 Conflict Management
3 sh (may not be repeated for credit)

Provides in-depth exposure to communication processes, strategies, and stages involved in conflict management and negotiation. Emphasis placed on application of competent communication behavior during conflict in personal and professional situations. Involves hands on, student learning project wherein students act as facilitators to help other students resolve conflicts.

COM 4620 Communication Ethics
3 sh (may not be repeated for credit)

Guides students in examining ethical considerations in business and public life. Includes diverse ethical perspectives, critical methods of analysis, and greater awareness of the role ethics plays in everyday life.

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

COM 4940 Internship in Communication
1-3 sh (may be repeated for up to 6.000 sh of credit)

Supervised field practicum in a communication-related position, to include advertising, broadcast and print journalism, telecommunications and film, organizational communication and public relations. Senior standing and a 2.7 overall GPA is required. Graded on a Satisfactory / Unsatisfactory basis only. Permission is required.

COM 5005 Introduction to Graduate Studies in Communication
1.5 sh (may not be repeated for credit)

Designed to introduce graduate students to critical elements of graduate studies in communication. Central topics include mastering the basics of APA style, honing analytic writing skills related to the study of communication, instructional resources, academic integrity issues unique to communication, and the history of the communication discipline.

COM 5025 Health Communication
3 sh (may not be repeated for credit)

Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 4022; graduate students will be assigned additional work. Graduate standing is required.

COM 5206 Communication Training
3 sh (may not be repeated for credit)

Prepares students to design and conduct communication skills training for professionals. Emphasizes adult learning, conducting needs assessments, establishing training objectives, using communication technology and evaluating training efforts. Involves a hands-on student learning project in which students conduct needs assessments and present two-hour workshops for local professional organizations. Other majors must confer with instructor regarding comparable prerequisites. Offered Fall of every other year.

COM 5335C Computer Mediated Communication
1.5 sh (may not be repeated for credit)

A seminar-style course covering practical and theoretical issues associated with how people use computers in their business, social, political, cultural, educational, and person activities. The approach is socio-psychological in nature, examining how communication technology is used to establish and expand personal identity, create interpersonal relationships and manage the tide of information represented by the Internet.

COM 5527 Communication Agency
1.5 sh (may not be repeated for credit)

Guides students through the development and implementation of a series of strategic and organizational communication projects utilizing an "agency-style" team based format. Permission is required.

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

COM 5933 Special Topics in Communication
3 sh (may not be repeated for credit)

Designed to provide students with specialized knowledge in a particular field of communication such as organizational communication, media criticism, rhetorical criticism, or visual communication. Permission is required.

COM 6024 Emerging Topics in Health Communication
1.5 sh (may not be repeated for credit)

Highlights how communication issues in health care are interwoven with community well-being, civic life, professional development, and opportunities for collaboration and mutual gain. Topics may include health care reform, leadership in health care settings, patient and family satisfaction, privacy issues, and burnout among health professionals. Utilizes current research, theoretical foundations, and local health care experts to explore relevant and emerging issues. Uses health care case studies to develop effective leadership and strategic communication strategies.

COM 6129 Assessing Organizational Dynamics
3 sh (may not be repeated for credit)

Applying systems thinking to analyze the dynamics of communication within an actual organization. Emphasis on deep-level analysis to reveal who talks to whom, when, why, and about what. Goals are (1) to reveal communication patterns and assumptions that make it either easy or difficult to achieve high quality organizational production and (2) to help organizational members design processes that foster the creation of high-performance, high-capacity teams.

COM 6207 Advanced Communication Leadership
3 sh (may not be repeated for credit)

Based on a hands-on leadership project informed by the study of leadership communication theory, research, and case studies. Emphasis is on developing communication skills, strategy, and awareness to enhance leaders' effectiveness. Permission is required.

COM 6210 Emerging Topics in Nonprofit Organizational Communication
1.5 sh (may not be repeated for credit)

Exploration of current communication issues and challenges facing today's nonprofit organizations. Emphasizes the development of strategies to address these issues through case studies, course readings, and by studying the communication challenges of local nonprofit organizations.

COM 6312 Advanced Communication Research Methods
3 sh (may not be repeated for credit)

This course addresses the philosophy of scientific research including the origins, nature, and effects of communication processes. Focuses on both theoretical and applied research. Primary emphasis is on quantitative investigation and applied research. Primary emphasis is on qualitative investigation with some consideration of qualitative methods. Focus is on achieving a solid understanding of the strengths and weaknesses of different methodological approaches (i.e., experiments vs. surveys vs. interviews) in order to determine the most effective methods for research questions or hypotheses. Students are expected to have completed at least one introductory college level statistics course preceding enrollment in this course.

COM 6511 Emerging Topics in Political Communication
1.5 sh (may not be repeated for credit)

Advanced political communication theory and current practice that focuses on consultancy-based political campaigning, government advocacy and public relations. Particular emphasis is on the critical analysis of advocacy texts and development of strategic plans for campaign communication.

COM 6525 Strategic Communication
3 sh (may not be repeated for credit)

Provides a conceptual framework for strategic communication, sharpens analytical and critical thinking, and provides a unifying function for the Strategic Communication & Leadership Program. Addresses all aspects of the development and execution of communication programs. Offers "real world" experience through the analysis of case studies. Case studies and coursework will be drawn from the profit, non-profit, product, and service sectors. Particular attention will be paid to sociopsychological, legal, and ethical issues as they relate to the decision-making process.

COM 6528 Team-Based Project
1.5 sh (may not be repeated for credit)

Guides a team of students in applying the principles of strategic communication, leadership, and project management to a community-based project. Permission is required.

COM 6625 Emerging Topics in Communication Law and Ethics
1.5 sh (may not be repeated for credit)

An advanced seminar covering legal issues such as the First Amendment, political speech, defamation, emerging technologies, and access to information; and ethical issues such as taste and editorial content.

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

COM 6930 Organizational Communication Project
1-6 sh (may not be repeated for credit)

Advanced research project for a major corporate or organizational client. Working with a client organization, students will identify a problem for study, perform an extensive review of issues related to the project, develop several testable research questions or hypotheses about the problem, gather and analyze qualitative and/or quantitative data, and write an extensive report, including summary conclusions based on the study. May enroll for more than one term, minimum of 6sh required for M.A. degree. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

COM 8980 Dissertation
1-6 sh (may be repeated for up to 18.000 sh of credit)

Designed specifically for students pursuing a Doctorate of Education degree at UWF and specializing in Social Sciences / Communication Arts. Involves in-depth study of communication theory and research, as guided by a major professor and doctoral committee. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

COP-Computer Programming Courses

COP 2253 Programming Using Java
3 sh (may not be repeated for credit)

Introduction to algorithms and object-oriented programming. Topics include control constructs, looping constructs, parameter passing, and arrays. Emphasizes developing fundamental programming skills and software engineering principles in the context of an object-oriented language to solve complex problems in a secure and robust manner.

COP 2334 Programming Using C++
3 sh (may not be repeated for credit)

Introduction to computers and algorithms. Programming in a high level language. Topics include structured programming techniques, procedural and data abstraction. Students will learn the fundamentals of developing coherent, expressive programs.

COP 2830 Script Programming
3 sh (may not be repeated for credit)

Introduction to the essential skills of programming with scripting. Topics include use and manipulation of variable, design and validation of forms, and writing scripts for systems calls and command line arguments.

COP 3014 Algorithm and Program Design
3 sh (may not be repeated for credit)

An introduction to designing solutions to scientific problems. Emphasis on the use of basic programming constructs to create correct, efficient algorithms. Secondary focus on implementation of the algorithms using current procedural language. This course will include several laboratory projects.

COP 3022 Intermediate Computer Programming

3 sh (may not be repeated for credit)

Prerequisite: (MAC 2311 OR MAC 2233) AND (COP 2253)

An intermediate course in object-oriented programming. Topics include object oriented modeling, algorithms, inheritance, polymorphism, input/output, exception will be on issues of object-oriented design and good programming practices. Students entering this course are expected to have a solid knowledge of programming in the object-oriented paradigm. A supervised laboratory experience will be included in the intermediate computer programming course. Emphasis will be on developing skills in program design as a necessary prerequisite to effective implementation. The lab time will provide an active learning experiences in design and coding.

COP 3530 Data Structures and Algorithms I

3 sh (may not be repeated for credit)

Prerequisite: COP 3014

A first course in Data Structures and Algorithms. Topics will include traditional data structures with a major focus on design and analysis of algorithms and will include projects that stress mathematics and science.

COP 3665 iPhone/iPad Programming

3 sh (may not be repeated for credit)

Prerequisite: COP 2253 OR COP 2334

Concepts and skills related to programming mobile devices, with specific emphasis on iOS devices -- the iPad, iPhone, and iPod Touch.

COP 3813 Internet Programming

3 sh (may not be repeated for credit)

Prerequisite: COP 2334 OR COP 2253 OR COP 2830

An overview for design and implementation of various elements of programming for the Internet. Instruction in html, xml, and popular scripting languages to create sophisticated web applications that rest on the client/server architecture, culminating in Web services. The use of aesthetic elements such as CSS style sheets and quality graphics and audio files for Internet applications will be explored.

COP 3905 Directed Study

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

COP 4020 Programming Languages

3 sh (may not be repeated for credit)

Prerequisite: COP 4331 AND COP 4534

Programming language theory and practice, including language design and implementation, theoretical foundations, language translation, and exposure to a variety of programming paradigms.

COP 4027 Advanced Computer Programming

3 sh (may not be repeated for credit)

Prerequisite: COP 3022

The third course in the introductory programming sequence. Addresses advanced topics including multi-threaded programs, the basics of data structures, generic programming, basic client-server programming, XML and web-based applications. Emphasis will be developing skills in program design as necessary prerequisite to effective implementation.

COP 4173 Advanced Visual Basic Programming

3 sh (may not be repeated for credit)

Covers advanced concepts of visual programming. Students should have prior knowledge of Visual BASIC, Windows, Access / Oracle and e-mail. In addition, students should have knowledge of data structures such as arrays, records and files. Topics covered include, but are not limited to: Windows API and DLL functions, the application of VB with databases, and the creation and implementation of Active X. Senior standing is required.

COP 4331 Object Oriented Programming

3 sh (may not be repeated for credit)

Prerequisite: COP 3530

Exploration of the fundamental ideas behind object-oriented programming, including encapsulation, inheritance, and polymorphis. Applications will focus on extracting objects from a problem domain, designing problem solutions based on message-passing between objects, and documenting object-oriented design. Implementations will be done in a current object-oriented language.

COP 4365C Advanced Topics in C# Programming

3 sh (may not be repeated for credit)

Prerequisite: (COP 2253 OR COP 2334) AND (COP 4710)

This course covers advanced concepts and applications of C# programming. Topics covered will include: event-driven programming, user interfaces, inheritance, exception handling and input/output, data structures, threads and animation, networking, interfacing with databases, ASP.NET. Prerequisites: (COP 2253 or COP 2334) and COP 4710 (minimum grade C-).

COP 4534 Data Structures and Algorithms II

3 sh (may not be repeated for credit)

Prerequisite: COP 3530

A second course in Data Structures and Algorithms. Topics include mathematical properties of algorithms (complexity, correctness), heaps, height-balanced trees, graphs, greedy algorithms, dynamic programming, and proof techniques pertaining to computational complexity. Emphasis on issues of correctness and efficiency. Students entering this course are expected to have a solid knowledge of programming.

COP 4610 Theory and Fundamentals of Operating Systems

3 sh (may not be repeated for credit)

Prerequisite: COP 2253

A functional systematic examination of the key components and theories of a modern operating system, including process, thread management, synchronization, I/O, and memory management. Emphasizes using several modern operating systems and writing programming scripts to manipulate these operating systems.

COP 4634 Systems & Networks I

3 sh (may not be repeated for credit)

Prerequisite: (CDA 3101 OR EEL 3701) AND (COP 3530)

This course reviews fundamental principles of modern operating systems and relates them to computer programming. Students learn about the design of various components of operating systems and the services they provide to end users and application developers. The role of security in operating systems is covered.

COP 4635 Systems & Networks II

3 sh (may not be repeated for credit)

Prerequisite: COP 4534 AND COP 4634 AND STA 4321

This course is a continuation of topics discussed in System & Networks I, focusing on fundamental principles of modern computer networks and network programming. The course will study the structure of networks, networking devices, network protocol stacks, congestion and flow control analysis and algorithms, network routing algorithms and protocols, and network traffic analysis. The course also covers client/server and peer-to-peer network programming and the role of security in networks.

COP 4710 Database Systems

3 sh (may not be repeated for credit)

Prerequisite: COP 2334 OR COP 2253 OR COP 2830

Introduction to database systems and database management system architectures. Various database models are discussed with an emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL, are included. Offered concurrently with COP 5725; graduate students will be assigned additional work.

COP 4723 Database Administration

3 sh (may not be repeated for credit)

Prerequisite: COP 4710

Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemes, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance.

COP 4856 Distributed Software Architecture I

3 sh (may not be repeated for credit)

Prerequisite: (COP 3022 OR COP 4331) AND (COP 4710)

A first course in software aspects of distributed architecture, with emphasis on database integration and interoperability of distributed components.

COP 4857 Distributed Software Architecture II

3 sh (may not be repeated for credit)

Prerequisite: COP 4856

Continuation of Distributed Software Architecture I that emphasizes large-scale, distributed, enterprise-level systems. Includes comparative analysis of alternative software architectures, technologies, and their relationships to standards. Incorporates conceptualization, design, implementation, and testing of representative functionality for a distributed, multi-platform enterprise system.

COP 4905 Directed Study

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

COP 5007 Software Engineering Foundations: Java Programming

3 sh (may not be repeated for credit)

A course in the Accelerated Software Engineering Foundations Series in which students will gain a comprehensive understanding of principles/concepts of Java programming and how to apply those principles/concepts in conjunction with principles of software engineering to design and develop object-oriented software systems. Students taking this course should have an understanding of programming language fundamentals including variables, constants, selection, iteration, arrays, and functions or methods.

COP 5725 Database Systems

3 sh (may not be repeated for credit)

Prerequisite: COP 5007

Introduction to database systems and database management system architectures. Various database models are discussed with emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL are included.

COP 5775 Database Administration

3 sh (may not be repeated for credit)

Prerequisite: COP 5725

Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemas, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance.

COP 5905 Directed Study

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

COP 6025 Advanced Programming Languages

3 sh (may not be repeated for credit)

Theory and practice of programming language design. Topics include: advanced language constructs, an overview of parallel programming, formal specification of programming languages, the analysis/synthesis model of program translation, code optimization, and compiler construction tools. Students will design and implement a small programming language. Knowledge of COP4020 or COT4420 is necessary for success in this course.

COP 6727 Advanced Database Systems

3 sh (may not be repeated for credit)

Prerequisite: COP 5725

Advanced topics in database management systems will be covered, for example, further dependencies and higher normal forms, transaction processing, concurrency control, backup and recovery, indexing, replication, managing large databases, and contemporary issues and topics in databases.

COP 6905 Directed Study

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

COT-Computer Science Courses**COT 3100 Discrete Structures**

3 sh (may not be repeated for credit)

Prerequisite: (COP 2253 OR COP 2334 OR COP 3014) AND (MAC 2233 OR MAC 2311)

Foundations of Discrete Math with applications to modeling, programming and data structures. Propositional and predicate logic, sets, functions, sequences, summations, algorithms, analysis of algorithms, combinatorics, graphs. Emphasis is on developing programming skills. Can also be taken by CIS majors. Prerequisites: (COP 2253 or COP 2334 or COP 3014) and (MAC 2233 or MAC 2311) minimum grade of C-.

COT 4420 Theory of Computation

3 sh (may not be repeated for credit)

Prerequisite: (COP 3530C OR COP 3530) AND (MHF 3202)

Theoretical foundations of computer science. Classification of formal languages, grammars, and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Insolvability of the halting problem. Offered concurrently with COT 5206; graduate students will be assigned additional work. Credit cannot be received in both COT 4420 and COT 5206.

COT 4905 Directed Study

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

COT 5205 Theory of Computation

3 sh (may not be repeated for credit)

Theoretical foundations of computer science. Classification of formal languages, grammars and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Insolvability of the halting problem. Dual-listed with COT 4420; graduate students will be assigned additional work. Students cannot receive credit for COT 5205 and COT 4420.

COT 5905 Directed Study

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

COT 5930 Computer Science Seminar

3 sh (may be repeated for up to 6.000 sh of credit)

A seminar-style course that provides graduate students with an overview of trends in Computer Science research and development, as well as prepares students for conducting independent research. Specific topics include trends in CS research, software development, and research methods. Permission is required.

COT 6905 Directed Study

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

COT 6931 Computer Science Project

3 sh (may be repeated for up to 6.000 sh of credit)

Capstone course for Masters students who do not elect the thesis option. Normally taken for 3 credits in each of two consecutive semesters. Students will define and carry out a project that shows mastery of some topic in computing and produces some concrete product such as a report or a computer program. Students should not enroll until they have completed at least 12 semester hours of their graduate coursework. Permission is required.

CPO-Comparative Politics Courses**CPO 2002 Comparative Politics**

3 sh (may not be repeated for credit)

Examination of political processes and political institutions in selected foreign countries such as Britain, France, Germany, USSR, Japan and India. Methods of cross-national political analysis. General Education: Social Science - Socio-Political Perspectives. Meets Multicultural Requirement.

CPO 3055 Dictatorships

3 sh (may not be repeated for credit)

The course will carry out a comparative analysis of dictatorships across time and space, with special attention paid to 20th century totalitarian regimes, including those of Hitler, Stalin, and Mao. The analysis will focus on some of the causes for the rise and fall of these dictatorships, their ruling personalities and methods, the costs imposed on their subject populations, and their long-term effects on the politics of their representative countries. The course will begin with selections from classic writings on tyranny from Plato, Aristotle, Suetonius, and Machiavelli. Then, using scholarly texts, novels, and films, we will examine historical cases from several continents, drawing parallels and contrasts across them. Meets Multicultural Requirement.

CPO 3103 Politics of Western Europe

3 sh (may not be repeated for credit)

Political processes and institutions of selected European political systems. Meets Multicultural Requirement.

CPO 3322 Cuba, Castro and the USA

3 sh (may not be repeated for credit)

The course will carry out an analysis of Cuban politics, domestically and in relation to the USA, from the outbreak of the Spanish-American War to the present, with special emphasis on the Castro era (i.e., 1959 to the present). The analysis will compare Cuba's standard of living, nature and structure of standing before Fidel Castro seized power in the early years of the Cuban Revolution and at different times during his nearly 50-year reign. Some attention will be paid to how Cubans who came to the USA after Castro have fared, especially politically. Meets Multicultural Requirement.

CPO 3513 Politics of the Far East-Japan and China

3 sh (may not be repeated for credit)

Political systems of China and Japan offer striking comparisons to each other and to the United States. They provide two non-Western cultural contexts within which some Western political ideas and institutions operate. Meets Multicultural Requirement.

CPO 3614 Politics of Eastern Europe

3 sh (may not be repeated for credit)

This course follows the transition from communism to democratization through democratic consolidation in Eastern Europe. It explores the question: how democratic are they today, nearly a decade and a half after the collapse of communism? Emphasis is on the changes in post-Soviet states, their organization and political culture and identity, and contemporary issues. Several countries will be considered in greater depth, including Poland, the Czech Republic, Hungary, and East Germany. Specific issues will be addressed across Eastern Europe, including the communist legacy, economic development, interest group emergence, social problems, civil society challenges, and nationalism.

CPO 3773 Great World Leaders

3 sh (may not be repeated for credit)

Reviews ancient and contemporary theories of political leadership, contrasting leadership in democratic and dictatorial regimes in the context of case studies around the world, across continents and time periods. Meets Multicultural Requirement.

CPO 4303 Politics of Spain, Portugal, and Latin America
3 sh (may not be repeated for credit)

The politics of Spain, Portugal, and the largest Latin American countries (Argentina, Brazil, Mexico) and, as time permits, other countries of particular concern to the United States. Meets Multicultural Requirement.

CPO 4314 Democracies
3 sh (may not be repeated for credit)

This course examines what it means to be a 21st century democracy. It explores institutional variants of democracy, including different structures of government and electoral systems. It considers the promise and the problems that democracy holds. In the course we will explore democratic variants examining factors such as accountability, competitiveness, transparency, representation. We will examine democratization and how to build and sustain democracy. We will consider preconditions for democracy and discuss the complex relationship between democracy and economics. Offered concurrently with CPO 5315; graduate students will be assigned additional work.

CPO 4761 Religion and International Politics
3 sh (may not be repeated for credit)

This course analyzes how religious beliefs and institutions shape politics that cross borders. It draws upon an array of writings to examine major global phenomena like the religious roots of international order; religious challenges both to modern states and to recent globalization; and activism amongst global religious movements. In turn, the course concentrates on two major issues for scholars, policy- makers and citizens alike: 1) international religious extremism and violence and 2) religious influences on ? and targets of ? U.S. foreign policy. Examples of topics covered along the way include Evangelical activism and ideologies, religious terrorism and the Israeli-Palestinian conflict. This course is offered concurrently with CPO 5769; graduate students will have additional work.

CPO 4774 Radicalism and Extremism
3 sh (may not be repeated for credit)

Political radicals and political extremists reside outside of the boundaries of mainstream politics because they diverge sharply in their ideological orientation strategy and tactics relative to the parties of the political center. This course focuses on the ideology, discourse, goals and actions of certain parties and groups on the ?fringe? of politics. Emphasis is placed on conceptualizing the terms ?radical? and ?extremist? to develop an understanding of how these groups stand apart from the mainstream. Comparative cases will be examined ranging from consideration of a wide variety of American radicals on both the political right and political left, European radical right political parties, religious radicals and fundamentalism, and Middle Eastern radical Islam. We will characterize various extremist groups, discuss strategies and tactics, explore factors that catalyze such groups, and consider their impact and significance on policy but also on governance and society. The course is offered concurrently with CPO 5779; graduate students will have additional work.

CPO 4792 Geopolitics
3 sh (may not be repeated for credit)

Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold war period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relates to the larger issue of state power and US national policy. Offered concurrently with CPO 5797 graduate students will be assigned additional work. Meets Multicultural Requirement.

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

CPO 5315 Democracies
3 sh (may not be repeated for credit)

This course examines what it means to be a 21st century democracy. It explores institutional variants of democracy, including different structures of government and electoral systems. It considers the promise and the problems that democracy holds. In the course we will explore democratic variants examining factors such as accountability, competitiveness, transparency, representation. We will examine democratization and how to build and sustain democracy. We will consider preconditions for democracy and discuss the complex relationship between democracy and economics. Offered concurrently with CPO 4314; graduate students will be assigned additional work.

CPO 5769 Religion and International Politics
3 sh (may not be repeated for credit)

This course analyzes how religious beliefs and institutions shape politics that cross borders. It draws upon an array of writings to examine major global phenomena like the religious roots of international order; religious challenges both to modern states and to recent globalization; and activism amongst global religious movements. In turn, the course concentrates on two major issues for scholars, policy- makers and citizens alike: 1) international religious extremism and violence and 2) religious influences on ? and targets of ? U.S. foreign policy. Examples of topics covered along the way include Evangelical activism and ideologies, religious terrorism and the Israeli-Palestinian conflict. This course is offered concurrently with CPO 4761; graduate students will have additional work.

CPO 5779 Radicalism and Extremism
3 sh (may not be repeated for credit)

Political radicals and political extremists reside outside of the boundaries of mainstream politics because they diverge sharply in their ideological orientation strategy and tactics relative to the parties of the political center. This course focuses on the ideology, discourse, goals and actions of certain parties and groups on the ?fringe? of politics. Emphasis is placed on conceptualizing the terms ?radical? and ?extremist? to develop an understanding of how these groups stand apart from the mainstream. Comparative cases will be examined ranging from consideration of a wide variety of American radicals on both the political right and political left, European radical right political parties, religious radicals and fundamentalism, and Middle Eastern radical Islam. We will characterize various extremist groups, discuss strategies and tactics, explore factors that catalyze such groups, and consider their impact and significance on policy but also on governance and society. This course is offered concurrently with CPO 4774; graduate students will have additional work.

CPO 5797 Geopolitics
3 sh (may not be repeated for credit)

Exploration and study of patterns of conflict, geography, cooperation and change in world politics in the post-Cold war period; the examination of the creation of world order under anarchic conditions; and the study of religious, cultural, resources and economic crises in large portion of the world; which relate to the larger issue of state power and US national policy. Graduate students will be assigned a substantial research project from which they will lead the class on their specific subject. They will also lead their respective teams in the research of an international maritime case study to demonstrate the complexity of dealing with inter-national law. This course is dual-listed with CPO4792.

CPO 6006 Seminar in Comparative Politics
3 sh (may not be repeated for credit)

Comparison and analysis of political systems, theoretical and empirical.

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

CRW-Creative Writing Courses

CRW 2001 Introduction to Creative Writing
3 sh (may not be repeated for credit)

Overview and introduction to three genres of creative writing: poetry, fiction, and creative nonfiction. Will be taught as part lecture/discussion and part writing workshop. Credit cannot be received in both CRW 2001 and CRW 2000. Gordon Rule: Writing.

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

CRW 3110 Fiction Writing
3 sh (may be repeated for up to 6.000 sh of credit)

Workshop in narrative fiction. Practice in developing plot and character and establishing point of view. Emphasis on writing for publication in specific markets.

CRW 3310 Poetry Writing
3 sh (may be repeated for up to 6.000 sh of credit)

Workshop in writing poetry. Practice in traditional forms and extensive work in contemporary free verse.

CRW 3424 Playwriting
3 sh (may be repeated for up to 6.000 sh of credit)

Playwriting is devoted to the analysis and creation of literary drama. Introduces the student to the dramatic elements of plot, scene, character development and motivation, and dramatic action through the study of established playwrights and plays. Students will also submit their own original creative work for discussion and analysis by the professor and class.

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

CRW 4211 Creative Non-Fiction
3 sh (may be repeated for up to 6.000 sh of credit)

Writing workshop in which students explore the personal essay through the process of reading and writing about autobiography, travel, science, politics, and art.

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

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

CRW 6130 Workshop in Fiction Writing
3 sh (may not be repeated for credit)

Writing, editing, and evaluating fiction. Students will be expected to write original publishable fiction and critique writing produced in class. Permission is required.

CRW 6236 Workshop in Creative Non-Fiction Writing
3 sh (may not be repeated for credit)

Writing, editing, and evaluating original pieces of creative non-fiction. Permission is required.

CRW 6331 Workshop in Poetry Writing
3 sh (may not be repeated for credit)

Writing, editing, and evaluating poetry. Students will be expected to familiarize themselves with both traditional forms and free verse. Permission is required.

CRW 6806 Workshop in Teaching Creative Writing
3 sh (may not be repeated for credit)

The teaching of workshop methods used in poetry, fiction, and creative non-fiction writing classes. Emphasis on writing standards, resources, evaluation methods, publishing, and course planning. Permission is required.

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

CRW 6934 Special Topics in Creative Writing
3 sh (may be repeated for up to 12.000 sh of credit)

A writing workshop with a central theme such as autobiography, nature writing, the persuasive essay, biography, or studies of place. Topics change each term. See department or instructor for specific topic.

CTS-Computer Tech Skills Courses

CTS 3159 End User Support
3 sh (may not be repeated for credit)
Prerequisite: COP 2334 OR COP 2253 OR COP 2830

An applied course pertaining to the usual activities that are involved in supporting end users of computers. Addresses the technical capabilities a support specialist needs and the "soft skills" necessary when dealing with clients. Topics include computer facility management, customer service skills, user needs analysis, installing and troubleshooting computer systems, help desk organization, product evaluation, and user training.

CTS 4348 Linux System Administration
3 sh (may not be repeated for credit)
Prerequisite: COP 4634 OR COP 4610

This course focuses on the installation, configuration, and maintenance of modern, open-source operating systems in individual and corporate environments including computer networks that host a variety of servers and workstations. Through hands-on experience, students will learn how a Linux operating system works and how it can be put to use to serve computing needs. Students will also learn how to configure network environments to test the networking capabilities of the operating system. Course may be offered concurrently with CTS 5349 and credit will not be given for both CTS 4348 and CTS 5349.

CTS 4817 Web Server Administration

3 sh (may not be repeated for credit)

Prerequisite: COP 2334 OR COP 2253 OR COP 2830

An overview of essential skills in web server administration. Topics include installation and configuration of client web servers, user creation and login authentication, configuration of applications, security, management of user permissions.

CTS 5349 Linux System Administration

3 sh (may not be repeated for credit)

This course focuses on the installation, configuration, and maintenance of modern, open-source operating systems in individual and corporate environments including computer networks that host a variety of servers and workstations. Through hands-on experience, students will learn how a Linux operating system works and how it can be put to use to serve computing needs. Students will also learn how to configure network environments to test the networking capabilities of the operating system. Offered concurrently with CTS 4348; graduate students will be assigned additional work.

CYP-Community Psychology Courses**CYP 6005 Community Psychology**

3 sh (may not be repeated for credit)

Introduces the student to the field of community psychology which is the branch of psychology that seeks to understand relationships between environmental conditions and the development of health and well-being of all members of a community. Students will study the development of the field of community psychology and its theories and paradigms of research and action. Additionally, students will concentrate on the practice of community psychology.

CYP 6538 The Consultation Process

3 sh (may not be repeated for credit)

Addresses the historical roots of mental health consultation, basic concepts in mental health consultation, the consultation process, and the various types of mental health consultation. Considerable emphasis is given to working within public schools and consulting with outside agencies. Consultation is defined and contrasted to other helping relationships, and definitional issues are addressed. Includes a discussion of the skills and characteristics of the consultant, and ethical and legal considerations.

CYP 6905 Directed Study

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

DAA-Dance: Emphs on Activity Courses**DAA 1300 Ballroom Dance**

3 sh (may not be repeated for credit)

This course is designed to teach beginner level ballroom dancing steps in the Foxtrot, Waltz, Jitterbug, Cha Cha, Tango, Merengue, Mambo, and the Charleston. In addition, the fitness benefits of social dance, the application of fitness to dance, and a brief history of each dance will be presented.

DAA 2000 Dance Fundamentals

3 sh (may not be repeated for credit)

Dance foundation course for Music Theatre performance. Course focus is on the proper technique needed for dance in the theatre and will cover dance kinesiology, proper warm-up, and foundations of ballet and jazz dance.

DAA 2500 Jazz Dance I

3 sh (may not be repeated for credit)

Instruction and practice in beginning jazz technique comprising of several different jazz styles, basic dance terminology, dance history, and current status of jazz dance in society. Emphasis includes dance as a physical activity as well as an art form.

DAA 2750 Ballet Conditioning and Fitness I

3 sh (may not be repeated for credit)

A beginning level ballet technique class that focuses on building fitness through the medium of dance. Teaches the fundamentals of classical ballet, and is designed to strengthen and develop technique at a beginning level through barre and centre practice. Emphasis is on correct body placement and alignment, strength and flexibility, vocabulary, musicality and movement quality. Designed for non-dancers, dancers, and athletes.

DAA 2751 Modern Dance for Conditioning

3 sh (may not be repeated for credit)

Introduces the student to the principles of modern dance techniques. Emphasis is on correct placement and body alignment, strength and flexibility, movement vocabulary, rhythmic and creative skills.

DAA 2905 Directed Study

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

DAA 3004 Dance Styles I

1 sh (may be repeated for up to 2.000 sh of credit)

Dance styles for the music theatre student in the area of ballet and classical forms of dance.

DAA 3005 Dance Styles II

1 sh (may be repeated for up to 2.000 sh of credit)

Dance styles for the music theatre student in the area of modern dance, jazz, and tap.

DAA 3006 Dance Styles III

1 sh (may be repeated for up to 2.000 sh of credit)

Dance styles for the music theatre student in the area of non-western dance.

DAA 3905 Directed Study

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

DAA 4905 Directed Study

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

DAE-Dance Education Courses**DAN-Dance Courses****DAN 3744 Dance Fitness**

3 sh (may not be repeated for credit)

Combines basic fitness and movement principles applied to movements in jazz dance and low-impact elements of ballet. Progressive daily knowledge and skills for dance learning and performance. Also provides the opportunity for students to enhance health and fitness through the medium of dance.

DEC-Markt Distrib Education Courses

DEC 4401 Special Teaching Methods: Distributive Education
4 sh (may not be repeated for credit)

Develops skill and competencies in special methods for those teaching distributive education in secondary schools. Includes latest instructional materials and methods for cooperative / distributive education.

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

DEP-Development Psychology Courses

DEP 2004 Human Development Across the Lifespan
3 sh (may not be repeated for credit)

Survey of major themes and recent findings in the area of human development across the life span. Emphasis will be on the major transitions from fetal development through death in the physical, cognitive, social, and emotional domains. The impact of ethnic, gender, and cultural factors on development will be examined. General Education: Social Science - Behavioral Perspectives.

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

DEP 3103 Child Development
3 sh (may not be repeated for credit)

Development and behavior of children from infancy to adolescence from two viewpoints: age periods (prenatal, infancy, preschool, school) and areas (physical, intellectual, personality, etc.).

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

DEP 4222 Autism Spectrum
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 OR CLP 3144 OR DEP 3103

The autism course provides an opportunity for students to learn about autism spectrum disorders (ASD), research methods, the diagnostic process, and programs for assisting individuals identified as having ASD, their families, and professionals who work with them. The course counts three semester hours and is fully online.

DEP 4305 Psychology of Adolescence
3 sh (may not be repeated for credit)

Social, emotional, biological, and intellectual elements of adolescence. Addresses the transitions from childhood to adolescence and from adolescence to adulthood. Application of theories is stressed. Option for partial credit via field experiences.

DEP 4404 Adulthood and Aging
3 sh (may not be repeated for credit)

Physiological, psychological, sociological and economic aspects for young, middle and old adulthood presented within a multidisciplinary perspective. Lifespan objectives are emphasized, including development as a life-long process, with multiple determinants of change, and correspondingly, multiple alternatives for change. Successful aging is also emphasized. Credit may not be received for DEP 4404 and either DEP 4402 or DEP 4401.

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

DEP 5055 Developmental Psychology
3 sh (may not be repeated for credit)

Representative theories of development; methodological issues in developmental research; study of research knowledge in selected areas of developmental psychology. One undergraduate or graduate course in the area of developmental is required.

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

EAB-Exper Analy of Behavior Courses

EAB 4704 Introduction to Behavior Modification
3 sh (may not be repeated for credit)

Principles and practical application of behavior modification techniques in a wide variety of settings: school, home, medical and business. Especially appropriate for non-psychology majors.

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

EAB 5705 Advanced Behavior Modification
3 sh (may not be repeated for credit)

Students must take EXP 4404, or have an undergraduate degree in Psychology before enrolling in this course. Experimental psychology literature surveyed for relevant theories and techniques for dealing with problems in human behavior in a variety of settings including home, school, business and clinic.

EAB 5738 Behavioral Medicine
3 sh (may not be repeated for credit)

Application of psychological expertise to problems in medicine. Emphasis primarily on role of behavioral principles and techniques in the treatment of medically related complaints and traditional psychosomatic disorders.

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

ECP-Economic Problems Policy Courses

ECP 3301 Principles of Environmental Economics
3 sh (may not be repeated for credit)

A first course in economics that provides students with the fundamentals of microeconomics and macroeconomics with a structured focus on environmental and natural resource issues. The principles of economics are developed using examples and cases that are directed at environmental policy issues and natural resource decision making. Available to non-business majors only. Offered Fall Semester only.

ECP 4302 Environmental Economics and Policy
3 sh (may not be repeated for credit)
Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003

Involves the student in the study of a broad range of environmental problems and the appropriate analysis of policy responses. Specific environmental issues include declining urban air quality, global warming, the effect of development on water systems and contamination from waste disposal systems. Traditional environmental regulations and policies are analyzed and contrasted with current, cutting-edge policies aimed at improving the environment.

ECP 4314 Natural Resources Economics

3 sh (may not be repeated for credit)

Prerequisite: ECP 4314

The impact of human activity on the natural world raises a myriad of issues for society. Efficient management of our natural resources requires understanding of both economic and physical factors. Decisions on resource use affect everyone, with impacts that may come immediately or in the future. This course uses economic tools to analyze those decisions and the resulting impacts. Methods developed in the first part of the course are used to examine applied problems in selected areas such as mineral extraction, energy, forestry, fisheries, water, agriculture, outdoor recreation, wildlife management, and biodiversity.

ECP 4413 Industrial Economics

3 sh (may not be repeated for credit)

Prerequisite: ECO 2023

Covers economic aspects of the behavior of firms in the United States including degree of concentration, price discrimination, competitive practices, strategic behavior, and regulated industries. The material covered will help students to understand how firms can continue to maintain high profits, how competition might lead to concentration, and how the government serves as a regulator in the economy. Credit may not be received in both ECP 4413 and ECP 4403.

ECP 4613 Urban and Regional Economic Development

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003

Contemporary urban and regional issues such as crowding, congestion, pollution and crime have long been the subject of political, moral and social debate. In order to understand and work towards solutions to these problems a command of economic theory and its relevant applications is essential. Takes simple economic principles and applies them to these pressing social issues including those found in the Gulf Coast area of Northwest Florida. In each case, various alternative solutions are discussed in the context of scarcity of resources, a fundamental principle of economics.

ECP 4703 Managerial Economics

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003

Develops tools of economic analysis in operating a business firm, including applied microeconomic tools designed to aid decision makers in pricing, reducing firm costs and identifying areas for firm expansion.

ECP 4905 Directed Study

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

ECP 5905 Directed Study

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

ECP 6705 Advanced Managerial Economics

3 sh (may not be repeated for credit)

Concepts of competition as they relate to business management policies and practices; profit goals and measurement problems; multiple product policy; demand analysis; cost concepts; pricing problems; case studies. Contains a portfolio project.

ECP 6905 Directed Study

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

ECP-Economics Courses**ECO 2013 Principles of Economics Macro**

3 sh (may not be repeated for credit)

Introduction to economics with emphasis on the study of aggregate economic activity, national income, price level determination, and economic growth and development. General Education: Social Science - Socio-Political Perspectives.

ECO 2023 Principles of Economics Micro

3 sh (may not be repeated for credit)

Introduction to economics with an emphasis on the determination of prices in the market economy and their role in allocating commodities and economic resources to various users. Study of market structure and efficiency. This course is recommended to be taken after ECO 2013.

ECO 3003 Principles of Economic Theory and Public Policy

3 sh (may not be repeated for credit)

Survey and analysis of contemporary economic theory and public policy. Available to non-business majors only.

ECO 3101 Intermediate Microeconomics

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003

Economic activity of individual economic units as consumers, resource owners and business firms. Analysis of consumer motivation as the basis of demand theory. Study of how business firms determine what to produce, how to produce at least cost, how to maximize profits, and how to distribute products. Monopoly, oligopoly, imperfect competition, and the different market conditions for resources are studied to present how the optimum use of each resource is determined by the firm.

ECO 3203 Intermediate Macroeconomics

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003

National income accounts. Aggregate supply and demand functions. Savings and consumption functions. The multiplier, the accelerator, marginal efficiency of capital, and determinants of interest rate. Problems of growth and full employment.

ECO 3223 Money and Banking

3 sh (may not be repeated for credit)

Prerequisite: ECO 2013 AND ECO 2023

Monetary and financial systems of the United States; organization and function of financial institutions including the Federal Reserve System; problems of money, prices, interest, credit, national income, and employment; international finance; recent monetary and financial trends.

ECO 3905 Directed Study

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

ECO 4401 Introduction to Mathematical Economics

3 sh (may not be repeated for credit)

Prerequisite: MAC 2311

Links basic mathematical tools with topics in economics. It provides illustrations of the use of those tools in analyzing practical problems faced by households and firms in making economic decisions.

ECO 4431 Business and Economic Forecasting

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023 AND STA 2023) OR ECO 3003

Provides the student with alternative forecasting techniques with applications to processes that occur in business and economics. Students will learn what are the typical forecasting problems in business and economics, what are the tools that can be used for forecasting purposes, how these tools are used in practice (the mechanics), and how they are applied to particular business and economic problems (the application). Concentrates on conditional forecasts using econometric methods and time series models including smoothing methods and Box-Jenkins ARIMA models.

ECO 4704 International Trade and Commercial Policy

3 sh (may not be repeated for credit)

Prerequisite: (ECO 2013 AND ECO 2023) OR ECO 3003

Reason for trade. Analysis of U.S. exports and imports. Commercial policy, foreign investments, and changing trends in world trade. Financing and management of business ventures overseas.

ECO 4905 Directed Study

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

ECO 4941 Economics Internship

1-6 sh (may not be repeated for credit)

Prerequisite: ECO 2013 AND ECO 2023

Supervised field practicum in economics related position. May include activities in one or more functional areas of economics (research, forecasting, business cycles, money & banking, labor, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major course(s) and permission is required.

ECO 5905 Directed Study

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

ECO 6905 Directed Study

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

ECS-Econ Systems Development Courses**ECS 6905 Directed Study**

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

EDA-Educational Administration Courses**EDA 5191 Leadership in Education: School Improvement Theory and Practice**

3 sh (may not be repeated for credit)

Leadership theories and planning models which have been developed through studies in education, business, industry, and the military will be examined. Application of these will be made to educational practices with a focus on continuous improvement and on the school improvement process.

EDA 5905 Directed Study

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

EDA 6061 Educational Organization and Administration

3 sh (may not be repeated for credit)

Examines the structure, organization and management of modern education. Emphasis is upon basic theories, principles and competencies in educational administration.

EDA 6063 Introduction to Educational Leadership

3 sh (may not be repeated for credit)

An introduction for graduate students to the educational leadership program. Major topics will be leadership, William Cecil Golden Modules, Code of Ethics, communication-both verbal and nonverbal, and interpersonal skills. Permission is required.

EDA 6222 Administration of School Personnel

2-3 sh (may not be repeated for credit)

Focus is on the improvement of educational programs through the proper management of human resources. Emphasis is upon recruitment, selection placement, and evaluation of school personnel.

EDA 6232 Law and Education

3 sh (may not be repeated for credit)

Examines law and its relationship to education. Students study constitutional law, legislative enactments, school policies, and the relationships among these aspects of school law as they pertain to administration. Tort liability, due process for students, corporal punishment, teacher contracts, and other law relating to authority and responsibility of teachers and administrators are included.

EDA 6240 Introduction to School Finance

3 sh (may not be repeated for credit)

Focus is on principles, trends, and practices in financing public education, including federal, state, and local financial support programs. School finance as related to taxation and other areas of school finance is included. Fiscal policies, planning, and management as related to the total education program are central themes.

EDA 6503 The Principalship

6 sh (may not be repeated for credit)

Prerequisite: EDA 6063

Students will focus on problems, practices and theories pertinent to the success of building level administrators in elementary, middle and high schools. This course includes planning, staffing, implementation and evaluation techniques necessary to administer an effective school program. Practicum experiences are designed to provide a clinical setting for the demonstration of theory applied to practice and will be an integral part of the course.

EDA 6905 Directed Study

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

EDA 7217 Effective Communication Techniques

3 sh (may not be repeated for credit)

Broad based study of communication skills and techniques, both interpersonal and media oriented, that emphasize strategies used by outstanding educational leaders within and outside the educational domain.

EDA 7423 School Reform: Research to Practice

3 sh (may not be repeated for credit)

Covers the use of research in determining the relationship of school administration to the community; educational decision-making in the context of local politics; community analysis; public relations; public participation in educational planning; school advisory councils; dealing with parents; and implications for school administrators and boards of education.

EDA 7905 Directed Study

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

EDA 7931 Seminar with High Performing Educational Leaders
3 sh (may not be repeated for credit)

Provides exposure for educational leadership students to high performing educational leaders. Students will interact with high performing leaders, study current research in educational leadership, develop group experiences in theoretical problems and solutions, and spend observation time in the work site of a high performing educational leader.

EDE-Educational: Elementary Courses

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

EDE 3942 Field Experience I
3 sh (may not be repeated for credit)
Prerequisite: EDE 4200* AND EDF 3234

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of classroom settings. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Florida Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, e.g., culturally and linguistically diverse, and students at risk for school failure. Permission is required.

EDE 4200 Planning and Curriculum I
3 sh (may not be repeated for credit)

Designed to assist students to learn basic planning and instructional skills in preparation for teaching. Course also includes essential mathematics skills requisite to the Florida Teacher Certification Exam. Students will implement the knowledge gained through lower division content-specific courses and prepare for the methodological courses in the teacher education program.

EDE 4201 Planning and Curriculum II
3 sh (may not be repeated for credit)
Prerequisite: (EDE 4200) AND (LAE 3314 OR MAE 3310)

Designed to assist prospective teachers to use their knowledge of content and pedagogical methods as a basis for developing skills in planning integrated elementary curriculum. Students will implement the knowledge gained through lower division content-specific courses and upper division methods courses to create interdisciplinary units of instruction that are designed to facilitate elementary children's learning across all content areas. Emphasis will be placed on creating developmentally appropriate units that meet the needs of both elementary and primary children, taking into account Gardner's multiple intelligences; and the special needs of ESOL and exceptional students. Additionally, demonstration teaching, and constructing and scoring classroom assessments that allow children to show what they know and understand are a focus of the course work.

EDE 4302 Instruction, Management, and Assessment-Elementary
3 sh (may not be repeated for credit)

Strategies for managing the classroom, instruction and evaluation as they relate to teaching the essential school competencies.

EDE 4421 Educational Assessment
3 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

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

EDE 4944 Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EDE 3942 AND TSL 4080

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

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

EDE 6206 Integrated Curriculum and Instruction/Elementary Education
3 sh (may not be repeated for credit)

An advanced curriculum course for graduate elementary level education students. Format is a combination of classroom instruction and student engagement focusing on integration of the content areas and a project in which the student applies learning and conducts research. The emphasis of instruction is integration, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, Sunshine State Standards, and assessment strategies.

EDE 6482 Research Practicum
3 sh (may not be repeated for credit)
Prerequisite: EDG 5366

Identification of a problem in the area of Elementary Education review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Students successfully completing this course will be allowed to register for Action Research.

EDE 6521 Practical Applications and Issues in Classroom Management: Elementary Education
3 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for elementary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group, and large groups in student respective grade level or educational setting.

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

EDE 6911 Action Research
3 sh (may be repeated for up to 6.000 sh of credit)

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Elementary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory / unsatisfactory basis only.

EDE 6941 Graduate Methods/ESOL/Reading Practicum: Elementary Education
3 sh (may not be repeated for credit)

Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL and reading strategies is included.

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

EDF-Edu: Found Policy Study Courses

EDF 1005 Introduction to Education
3 sh (may not be repeated for credit)

Consideration of career opportunities in the field of education, including clinical experiences in selected agencies / institutions.

EDF 2085 Teaching Diverse Populations
3 sh (may not be repeated for credit)

Provides students with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. Attention will be given to teaching all children about ethnicity in a pluralistic society. Field experiences and examination of educational materials will enhance the students' understanding of multiculturalism. Meets Multicultural Requirement.

EDF 3234 Applied Foundations of Education
3 sh (may not be repeated for credit)

Principles of growth, development and learning in the context of teaching in the schools of today. Methods of formal and informal assessment, measurement and evaluation are addressed and the ability to analyze educational phenomena in America and other countries from interpretive, normative and critical perspectives is developed. May include observation/participation in educational settings.

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

EDF 5255 Classroom Management: Harry Wong's Approach
3 sh (may not be repeated for credit)

Provides students with the opportunity to gain knowledge and skills to practice classroom organization and structure to maximize student learning time. An end of course product will be a binder containing a personal classroom management plan.

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

EDF 6218 Psychological Foundations for Education: Learning and Instruction
3 sh (may not be repeated for credit)

Examines current theories of learning, behavior, cognitive development, and instruction and their practical application in educational practice. Beyond theories and their application will explore current issues in human development and learning. Develops knowledge and skills for determining an appropriate theoretical framework from which to investigate and solve education problems. Students complete a review of research in their area of emphasis to examine an issue in depth and apply their findings to educational practice. Recommended: Educational Statistics I.

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

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

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

Positive behavioral support strategies, establishing system support for behavioral change, documenting behavioral change using single case design methodology in educational settings. Relation between behavior analysis, single case design, and best practices in education will be discussed.

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

A basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts in the field of education. Includes a review of the national legislation that mandates the use of ABA in educational settings.

EDF 6226 Behavioral Assessments, Interventions, and Outcomes in Education

3 sh (may not be repeated for credit)

Behavioral assessment, selecting behavioral outcomes, selecting behavioral strategies, and ethical and professional standards issues relevant to the practice of behavior analysis in educational settings.

EDF 6227 Experimental Analysis of Behavior

3 sh (may not be repeated for credit)

Prerequisite: EDF 6223 AND EDF 6225 AND EDF 6226 AND EDF 7437 AND EDF 7944

Foundational knowledge and concepts of experimental analysis of behavior to include demonstrating the operations of principles of behavior in the context of basic research in multiple areas of investigation such as schedules of reinforcement, stimulus control, conditioned reinforcement choice, and establishing/motivating operations.

EDF 6404 Educational Statistics I

3 sh (may not be repeated for credit)

Designed as an entry level course in statistics and covers both descriptive and inferential statistical techniques to solve applied research problems. Emphasis is also placed on using statistical software packages and will cover the most widely used statistical procedures in education.

EDF 6460 Foundations of Measurement

3 sh (may not be repeated for credit)

Provides an understanding of the nature of instrument and test development and focuses on the information and skills needed to design, develop, analyze, and interpret tests and instruments; the use of testing or instrument results in planning, monitoring, and evaluating instruction or programs; and to evaluate student or program progress. Intended to provide a foundation in testing and instrument development skills for those who work in a variety of applied settings.

EDF 6464 Applied Program Evaluation

3 sh (may not be repeated for credit)

Provides an introduction to program evaluation design, development, and implementation. Students will become familiar with a wide range of evaluation strategies, as well as how to interpret, use and communicate formative and summative evaluation results. These skills will be practiced through an applied research focus on using qualitative and quantitative data collection and analysis strategies to develop organizational accountability systems.

EDF 6475 Qualitative Research I - Methods

3 sh (may not be repeated for credit)

Enables graduate students to comprehend and apply new research paradigms, strategies, and techniques to better understand social change and cultural settings. Qualitative research concepts, theories, and methods offer an empirical basis to explore nonnumeric data. Students will experience and practice a variety of qualitative applied research techniques designed to enhance learning.

EDF 6481 Educational Research

3 sh (may not be repeated for credit)

Develops skills for evaluating and for conducting applied research studies in an appropriate area of emphasis. Includes strategies of research appropriate for particular area of emphasis and methods appropriate for those strategies. Students are required to select a problem, perform a review of the research literature, plan a research study, and write a research proposal. Completion of EDF 6404 and EDF 6218 is recommended prior to taking this course.

EDF 6557 Ethics in Applied Behavior Analysis

3 sh (may not be repeated for credit)

Students will study and apply the ethical issues relevant to practicing behavior analysis and implications for the decisions they make in practice.

EDF 6602 Trends and Issues in Education: Social, Multicultural, Historical and Philosophical Analysis

3 sh (may not be repeated for credit)

Enables students to develop skills as empowered persons and professionals and use critical and analytical thinking skills to demonstrate an understanding of the history and philosophy of education and an increased awareness of multicultural and other critical issues in education.

EDF 6691 Issues in Teacher Education: A Bio-Psycho-Social Understanding

3 sh (may not be repeated for credit)

Examines current issues in education from a multi-perspective point of view. Issues may include changes in school achievement, standardized testing, motivation, social, economic, and political pressures, character education, population make-up exceptionalities, new technologies, and the role of the public school in society. Will focus on understanding the biological, psychological and social factors that inform these issues.

EDF 6725 Critical Issues in American Education

3 sh (may not be repeated for credit)

Major issues in American education which confront educational leaders. Problems growing from these issues are considered.

EDF 6905 Directed Study

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

EDF 6915 Action Research for Educational Leaders

3 sh (may not be repeated for credit)

Guides future educational leaders in the process of sound action research in order to support and sustain positive change to enhance student achievement in K12 schools.

EDF 6943 Supervised Experience in Single Case Design

1-3 sh (may be repeated for up to 9.000 sh of credit)

Supervised field experience of positive behavioral support implementation in educational or related settings evaluated using single case designs. Topics covered will include the ethics and philosophy of positive behavioral support. Graded on satisfactory/unsatisfactory basis only.

EDF 7191 Psychological Foundations for Education: Cognition, Curriculum, and Instruction
3 sh (may not be repeated for credit)

Explores the traditional and contemporary theories of cognition and merges them with educational practices. Examines the ways theories of cognition inform instructional theories and models and informs teaching and learning in specific content areas. Provides students with an opportunity to explore multiple perspectives of learning that enhance their ability to understand educational goals and processes. Completion of EDF 6218, EDF 6481, and EDF 7407 is recommended prior to taking this course.

EDF 7407 Educational Statistics II: General Linear Model
3 sh (may not be repeated for credit)

Designed as an intermediate course in statistics for students who work in applied settings. Emphasis is on the introduction of more complex topics such as regression and the various ANOVA models, and in developing knowledge and skill in the appropriate techniques and application of various statistical software packages. Permission is required.

EDF 7437 Measurement and Single Case Design
3 sh (may not be repeated for credit)

Measurement of behavioral data, data display, data interpretation, experimental evaluation of interventions, and ethical considerations of applied behavior analysis and research in educational settings. This course specifically addresses the function of Applied Behavior Analysis as applied to individuals with varying exceptionalities and particularly focuses on those diagnosed with Autism Spectrum Disorders. Continuous and accurate data collection, data interpretation, evaluation of intervention, and ethical considerations are crucial components to competent and responsible intervention for individuals on the Autism Spectrum.

EDF 7468 Advanced Program Development and Evaluation
3 sh (may not be repeated for credit)
Prerequisite: EDF 6464

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

EDF 7476 Survey Research
3 sh (may not be repeated for credit)

Designed as an entry level course in survey research and includes design and selection of questionnaires and interviews as data collection instruments in both quantitative and qualitative research that is conducted in applied settings. Permission is required.

EDF 7477 Qualitative Research II - Theory
3 sh (may not be repeated for credit)

Focuses on major perspectives in contemporary social theory so as to attune students to the diverse connections between social theory and qualitative research. Covers the intersecting perspectives of feminist, postmodernist, social constructionist, multiculturalists, hermeneutic, and other theorists. Through practice exercises it provides students with opportunities to apply these perspectives to small samples of qualitative data in preparation for Qualitative Research III - Analysis. Finally in conjunction with Qualitative Research I and III this course equips students to undertake qualitative inquiry in their dissertations without needing further substantial preparation.

EDF 7478 Qualitative Research III - Analysis
3 sh (may not be repeated for credit)

Provides doctoral students advanced instruction to qualitative research analysis. Students are expected to have developed an understanding of their research skills in qualitative methodologies prior to enrollment. Will assist students in applying their methodological skills to their theoretical and philosophical orientations. Qualitative data analysis software (QDAS) will be used as a tool to enhance the research analysis process. Students are expected to work with their own research data through applied practical applications.

EDF 7489 Advanced Research Methods
1-3 sh (may not be repeated for credit)

Identify a potential dissertation topic, analyze and synthesize research on the topic, and produce a concept paper for the dissertation to be presented to the dissertation committee. Study the application of both qualitative and quantitative research methodologies towards addressing a research problem. Apply concepts from educational research in synthesizing current research articles for the development of a research project. Gain expertise in educational research that will facilitate student research agendas for action research, thesis research, and dissertation research.

EDF 7573 Contemporary Curriculum Issues and Theories
3 sh (may not be repeated for credit)

Explores curriculum conceptions, contributions to curriculum decisions, issues and dilemmas in curriculum development, proposals for the organization of curriculum choices (both past and present), and analysis of curricular reforms. Theoretical foundations underlying curriculum considerations and implications of these for curriculum decision-makers at all levels.

EDF 7638 Social Change and Reform
3 sh (may not be repeated for credit)

The dynamics of social and cultural change in democratic societies with a special focus on social movements and collective behavior. Practical methodologies in common use among activist and other agents of social change. Provides participants with opportunities to develop and apply some social-change skills. Permission is required.

EDF 7685 Educational Foundations: A Philosophical and Multicultural Analysis
3 sh (may not be repeated for credit)

Aims to broaden and deepen students' awareness of various educational philosophies and their influences in everyday classroom practice. Emphasis will be on the pluralism and diversity of educational ideas, the practical implication of such ideas, development of critical and analytical thinking and open mindedness. Completion of EDF 6602 is recommended prior to taking this course.

EDF 7905 Directed Study

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

EDF 7944 Advanced Single Case Design in Applied Settings

3 sh (may not be repeated for credit)

Apply knowledge and skills of positive behavioral support and single case design to an identified problem in an educational setting. Evaluate programs of behavioral support and collaborative system support using single case designs.

EDF 8088 Diversity & Civil Rights in Education

3 sh (may not be repeated for credit)

The purpose of this course is to analyze, synthesize, and evaluate the ideological, cultural, political, economic, and educational delivery systems in the segregated South. Analysis of oppressive systems, literature, primary sources, sites, and biographies that inspired the acceptance of diversity are evaluated.

EDF 8289 Curriculum Design

3 sh (may not be repeated for credit)

Historical, sociological, psychological and philosophical foundations of curriculum models, theory and design. Curriculum implementation, construction and evaluation. The course incorporates study of recent general developments in curriculum theory and construction, and a critical review of current specific curriculum models, plans and guidelines.

EDF 8406 Educational Statistics III: Multivariate Analyses

3 sh (may not be repeated for credit)

Provides the student with the necessary skills required to conduct educational research at an advanced level. Emphasis is placed on selecting the appropriate multivariate technique for a particular purpose and given data set, and the interpretation of statistical output generated from the major statistical packages. Permission is required.

EDF 8446 Instrument Development and Validation

3 sh (may not be repeated for credit)

Provides an understanding of the nature of measurement as well as the underlying theory and methodology of reliability estimation and test validation. Emphasis is on applied skills such as the conceptualization, development, and validation of instruments for assessment, research, and evaluation. Topics include the logical empirical, and statistical models of measurement processes with emphasis on scaling, reliability and validity. It will function as both a seminar and practicum within which the student will acquire applicative skills in the process of providing evidence of instrument reliability and validity. Permission is required.

EDF 8486 Advanced Quantitative Research and Statistics

3 sh (may be repeated for up to 9.000 sh of credit)

Student will develop advanced skills required to conduct educational research and analyze results. Emphasis is placed on aligning research methodology with appropriate statistical techniques for a particular purpose and set of research questions, and the interpretation of statistical output.

EDF 8698 Censorship

3 sh (may not be repeated for credit)

An in-depth study of censored literature and its effects on the existing political economy, ideological beliefs, and cultural diversity including the effects of single purpose interest groups will be discussed. Readings are centered around novels which have been challenged throughout the United States.

EDF 8785 Research Ethics

3 sh (may not be repeated for credit)

Prerequisite: EDF 7407

Focusing on research integrity issues facing researchers in the social and behavioral sciences and providing an in-depth examination of the responsible conduct of research principles and practices, this course will encourage students to critically examine and discuss current and emerging trends in research ethics, including conducting research, research design considerations, methodologies, data acquisition data analyses, and communicating findings. These issues will be analyzed through an applied research perspective designed to illuminate and evaluate the integrity of research efforts dealing with societal concerns. In addition, writing, publishing, and presenting relative to research ethics are topics explored in the course.

EDF 8888 Seminar: Special Topics Related to Minority Groups

3 sh (may be repeated for up to 9.000 sh of credit)

Students will analyze the history, culture, and heritage of diverse groups while examining the impact of prejudice, race relations, socioeconomic differences, and education on these groups throughout history. Contributions of minority groups in all areas of U. S. society will be examined. Permission is required.

EDF 8936 Advanced Qualitative Research and Strategies: Special Topics

3 sh (may be repeated for up to 9.000 sh of credit)

Student will develop advanced skills required to conduct education research and analyze results. Emphasis is placed on aligning research methodology with appropriate data analysis strategies for a particular purpose and set of research questions.

EDF 8980 Dissertation

1-6 sh (may be repeated for up to 18.000 sh of credit)

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.

EDG-Education: General Courses**EDG 2905 Directed Study**

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

EDG 3323 General Methods of K-12 Reading Instruction

3 sh (may not be repeated for credit)

Provides pre-service teachers with dynamic methods of planning, presenting and evaluating instruction while also incorporating principles and skills of effective teaching. This course is intended for non-education majors. Students will receive instruction in Florida Reading Endorsement Competency 2 and strategies for working with diverse learners.

EDG 3905 Directed Study

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

EDG 4373 Elementary and Special Education Integrated Arts
3 sh (may not be repeated for credit)

Integrates the musical arts, visual arts, and kinesthetic arts/health with the reading, language arts, science, and mathematics curriculum as a basis for instruction. Students learn discipline specific instructional techniques, activities, and content knowledge.

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

EDG 4936 Senior Seminar
2 sh (may not be repeated for credit)
Prerequisite: EDF 3234
Co-requisite: EDG 4940

Integrates theory, and general professional preparation with actual school practice. Prepares student for achieving initial certification and continuing success in the classroom.

EDG 4940 Student Teaching
3-12 sh (may not be repeated for credit)

Minimum of ten weeks of supervised teaching in a public or private school. Student Teaching assignments will be made by the Division of Teacher Education Field Placement Coordinator. Students are not allowed to take additional coursework or pursue employment during the student teaching experience without prior approval from the Teacher Education Field Placement Coordinator. Graded on a satisfactory/unsatisfactory basis only.

EDG 4941 Teaching Internship I
1-6 sh (may not be repeated for credit)

Phase I of a year-long supervised teaching experience in public and private schools. (Students will register for this series in successive semesters.) Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/ Admission to Student Teaching).

EDG 4942 Teaching Internship II
1-6 sh (may not be repeated for credit)

Phase II of year-long, supervised teaching experience in public or private schools. (Students will register for this series in successive semesters). Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 5250 Principles of Curriculum Development
3 sh (may not be repeated for credit)

Emphasis on school curricula, underlying theories, and strategies for improvement make up the foundation for curricular reform. Students intending to meet SDOE certification requirements should select specialization areas. The specialization areas are (a) early childhood/primary education, (b) middle school education, (d) secondary school education, and (e) exceptional student education.

EDG 5289 Alternative Assessment of At-Risk Students
1 sh (may not be repeated for credit)

Introduces student of different alternative assessment instruments to evaluate student performance of at-risk populations. Projects are designed to assist in the development of classroom assessment instruments for their specific curriculum. Credit may not be received in both EDG 5289 and EDG 5287.

EDG 5304 Introduction to Teaching and Learning
3 sh (may not be repeated for credit)

Introduces students to the field of education by exploring instructional planning, effective teaching strategies, and professional educator responsibilities. Florida Educator Accomplished Practices are presented to provide an awareness of effective teaching practices and pedagogy. Students observe and participate in a classroom field experience to practice skills of an effective educator as defined in the Educator Accomplished Practices Competencies.

EDG 5345 Educational Assessment for Learning
3 sh (may not be repeated for credit)

Presents foundational level knowledge of assessment concepts critical for good teaching and learning at the middle and secondary level. Students analyze and reflect on professional literature related to the following: 1) types of assessment; 2) high-stakes tests; 3) and data-driven decision-making. Designed to focus on the construction and use of multiple assessment measures for evaluating student understanding.

EDG 5366 Investigative Strategies and Empirical Foundations in Learning and Development
3 sh (may not be repeated for credit)

Designed for graduate students in Teacher Education. Examines the empirical foundations of teacher education, investigative strategies and data sources used to study issues in teacher education. Students will identify a possible area of research in their program of study and will select a Faculty Mentor who will assist in the development of their graduate program. Credit may not be received in both EDG 5366 and EDG 5021.

EDG 5414 Classroom Management Strategies and Applications
3 sh (may not be repeated for credit)

Overview of the foundations of classroom management with a focus on best practices associated with increasing middle and secondary students? motivation, engagement, academic, and social learning. Students analyze and reflect on professional literature that emphasizes the following four related themes: 1) foundations of classroom management; 2) classroom and instructional management; 3) positive relationships and learning environments; and 4) student behavior.

EDG 5416 Classroom Management Practices for At-Risk Students
1 sh (may not be repeated for credit)

Content focuses on structuring the classroom for success, assessing and managing individual and group behavior/academic achievement, and motivating and managing exceptional and at-risk students. This course is required for students participating in the Professional Educator Preparation Program.

EDG 5420 Conflict Resolution Strategies for At-Risk Students
1 sh (may not be repeated for credit)

Introduces to professionals working with at-risk populations, several theoretical concepts and current models for reducing/eliminating conflict within at-risk populations. Students are expected to develop a conflict resolution model for their use. Credit may not be receive in both EDG 5420 and EDG 5403.

EDG 5421 Breaking the Cycle of Violence
1 sh (may not be repeated for credit)

Causes of violent behavior in at-risk populations are examined. Strategies for reducing or eliminating violent behavior will be explored by the students. Development of an action plan for violent behavior reduction/ elimination by the students is required. Credit may not be received for both EDG 5421 and EDG 5404.

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

EDG 5940 Graduate Student Teaching
1-6 sh (may be repeated for up to 6.000 sh of credit)

Graded on a satisfactory/unsatisfactory basis only.

EDG 6047 Advanced Issues for At-Risk Students
1 sh (may not be repeated for credit)

Overview of current research and theory related to issues of at-risk populations is presented. Students will explore the roles of family, school, community, and culture to determine the more effective methods of building resilience in at-risk students. Credit may not be received in both EDG 6047 and EDG 6046.

EDG 6215 Integrating Curriculum for the K-12 Classroom
3 sh (may not be repeated for credit)

Graduate students focus on techniques for instructional integration of the content areas in order to maximize student learning and prepare teachers to meet the needs of all students. Students will demonstrate competencies through the successful completion of a collaborative interdisciplinary unit, individual lessons plans utilizing differentiated instruction, and a best practices research paper and presentation.

EDG 6285 Data Driven Decisions Using Standardized Student Achievement Data

3 sh (may not be repeated for credit)

Prerequisite: EDF 6460

Learning, Accountability, and Assessment is one of the new standards in Educational Leadership in Florida and it speaks specifically to the use of data in creating a school environment and curriculum that will enhance student learning. High Performing Leaders must monitor the success of all students in the learning processes to promote effective student performance, and use a variety of benchmarks, learning expectations, and feedback measures to ensure accountability for all participants engaged in the educational process. Using data to drive decisions is a critical component of the accountability system currently in place in Florida. Participants will develop skills in determining data needed to make certain decisions; in analyzing data; in communicating information about the decision making process to stakeholders. Specifically for administrators in the K12 educational setting.

EDG 6288 Educational Assessment
1 sh (may not be repeated for credit)

The focus of this course is assessment concepts that are critical for good teaching. Topics include measurement issues to determine assessment quality; teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; and interpreting standardized assessments commonly used in public schools. Required course for students participating in the Professional Educator Preparation Program.

EDG 6621 Alternative Certification: Human Development and Learning
1 sh (may not be repeated for credit)

Drawing upon well-established human development/learning theories and concepts and a variety of information about students, the teacher plans instructional activities. Credit may not be received in both EDG 6621 and EDG 6362.

EDG 6630 Peer Pressure and Youth Gangs
1 sh (may not be repeated for credit)

Current research related to peer pressure and gang activity is presented. Students will develop research project and action plans which include abatement strategies for at-risk population. Credit may not be received for both EDG 6630 and EDG 6405.

EDG 6791 Multicultural Education
3 sh (may not be repeated for credit)

Designed to acquaint students with basic concepts of multiculturalism including theoretical orientations to (1) the study of race and ethnicity in the United States; (2) race and ethnicity in American institutions; (3) race and ethnicity in popular culture and communities; and (4) the future of race and ethnic relations and the impact on teaching and learning in a pluralistic society.

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

EDG 6918 Research Practicum
3 sh (may not be repeated for credit)

Prerequisite: EDG 5366

Students focus on the development of applied research strategies in an educational setting and are provided with step-by-step guidance in developing research plans. Students are encouraged to explore both qualitative and quantitative methods of research and are provided with faculty support in design of research projects. Prerequisites: EDG 5366 minimum grade of a B.

EDG 6945 Professional Education Practicum
1 sh (may not be repeated for credit)

One of three required practica for students participating in the Professional Educator Preparation Program; aligned with three courses (EDG 5416: Classroom Management, EDG 6621: Human Development and Learning, and EDG 6288: Assessment). Requires students to complete a field experience in an educational setting. May be taken during the same semester or after the completion of the aforementioned courses.

EDG 6946 Special Methods Practicum
1 sh (may not be repeated for credit)

One of three required practica for students participating in the Professional Educator Preparation Program; aligned with the Special Methods Course in the student's respective content area. Requires students to complete a field experience in an educational setting that contains ELL/ESOL students. Students will design and implement a subject-area lesson plan. May be taken during the same semester or after the completion of the aforementioned course.

EDG 6947 Reading Instruction Practicum
1 sh (may not be repeated for credit)

One of three required practica for students participating in the Professional Educator Preparation Program; aligned with EDG 3323C (General Methods for Teaching Students K-12) OR RED 6060 (Foundations of Middle/Secondary Literacy). Requires students to complete a field experience in an educational setting and design and implement a reading lesson plan with accommodations. May be taken during the same semester or after the completion of the aforementioned course.

EDG 7070 Managing Learning Environments
3 sh (may not be repeated for credit)

Managing learning environments is required in the educational curriculum and instructional Doctoral program, with a specialization in teaching and learning. The focus is on developing the skills necessary to become instructional leaders in the 21st century. Management of personnel, students, finances, and community resources is discussed.

EDG 7225 Teaching Critical and Social Issues
3 sh (may not be repeated for credit)

Provides students with opportunities to design curriculum that includes critical, social, and controversial issues and to practice teaching using innovative pedagogical strategies.

EDG 7241 Social Justice and Inequities
3 sh (may not be repeated for credit)

Offers a comprehensive look at inequality and social-justice issues in American society. Using Patricia Hill Collins' notion of a matrix of domination as a central concept, focuses on institutionalized hierarchies and systems of domination both historical and current based on race, ethnicity, sexual orientation, social class, gender, disability, and age, and on how social hierarchies intersect and reinforce each other.

EDG 7303 Analysis of Learning and Teaching Practices
1-3 sh (may not be repeated for credit)

Advanced study of theories and research on teaching and learning and their application to instructional practices; emphasis on professional leadership in decision making related to teaching practices and creating or restructuring learning environments.

EDG 7346 Advanced Analysis of Curriculum and Instruction
3 sh (may not be repeated for credit)

Enables students to utilize research based curriculum and instruction models to analyze and evaluate teaching processes for the purpose of improving instructional programs. Skill development in feedback and coaching techniques and strategies effective in orchestrating change in instructional practices will also be a focus.

EDG 7363 Applications of Current Research in Teaching and Learning
3 sh (may not be repeated for credit)

Provides advanced study of the theoretical knowledge bases, methodologies and applications of current research topics in teaching and learning to a variety of subject areas and educational settings. Required for the doctoral specialization in teaching and learning.

EDG 7458 Analysis of Alternative Assessment Methods
3 sh (may not be repeated for credit)

Advanced study of current theories and research on assessment with emphasis on alternative methods of assessing learning; designing multiple forms of assessment that tap into higher level thinking and allow students to demonstrate knowledge of processes and skills of problem solving and knowledge of concepts.

EDG 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EDG 7930 Special Topics and Critical Issues in Teaching and Learning
3 sh (may not be repeated for credit)

Advanced study of current topics and issues related to teaching and learning across a variety of classroom lab or alternative settings. Students explore current teaching practices and future needs related to educational programs for learners of various ages.

EDG 7935 Research Design Seminar
3 sh (may not be repeated for credit)

Provides students with an understanding of how to undertake a research thesis. Concepts include format, style, literature reviews, hypothesis formulation, research design and statistical application.

EDG 8980 Dissertation
1-18 sh (may be repeated for up to 18.000 sh of credit)

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction program. This dissertation will reflect intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required.

EDH-Education: Higher Courses

EDH 5040 The American College Student: Theories and Trends
3 sh (may not be repeated for credit)

Studies the characteristics of American college students, the effects of the college experience on their learning and personal development, learning and motivation theories that relate to the college student, and critical trends and learning issues for student affairs practitioners related to student services and student development. Will also provide opportunities to practice professional skills.

EDH 5070 Assessment Issues in College Student Affairs
3 sh (may not be repeated for credit)

The philosophy and practice of assessment in college student affairs programming and administration. Issues include the role of assessment in regional accreditation, meeting state mandates, and improved institutional effectiveness. A variety of regional and national reports related to the climate of accountability in higher education will be reviewed and discussed.

EDH 6045 Theories of College Student Development
3 sh (may not be repeated for credit)

The purpose of this course is to study the various student development theories used as a foundation for student affairs work. Students will learn theories related to psychosocial, identity development, cognitive-structural, and typology. Individuals will learn how to put theory into practice with working with students. Offered only Spring semester.

EDH 6051 Introduction to Higher Education
3 sh (may not be repeated for credit)

Development of higher education in United States, current institutions, their practices and possible future trends. The topics addressed include history, recent developments, and projections for the future of various aspects of higher education, including its missions, purposes, students, faculty and staff, administration, finance, organization, governance, and role in American society.

EDH 6368 Multicultural Competence in Student Affairs
3 sh (may not be repeated for credit)

Multicultural competence is integral to the mission of providing students with the skills and knowledge needed to successfully manage civil discourse and interactions with individuals from diverse backgrounds and requires that the learner be actively, intentionally, and consistently engaged in learning across diverse populations, cultures, and worldviews.

EDH 6369 Capstone Seminar in Student Affairs
3 sh (may not be repeated for credit)

As the culminating experience in the College Student Affairs Administration Program, this course prepares graduates for employment in the student affairs profession. The course is divided into three components ? job search preparation and employment strategies, reflection and synthesis of prior course material and that integration with the graduate assistant ship and transitional issues from being a graduate student to a new professional such as establishing a professional identity and social media pitfalls. Course only offered in Spring.

EDH 6405 Legal Issues in Higher Education
3 sh (may not be repeated for credit)

Designed to provide students with overview of the legal issues involving the profession of student affairs in higher education. Through course instruction, the study of legal briefs, and assigned test readings, students will gain a basic understanding of the legal issues and principles that confront student affairs professionals. Not designed to provide legal training or advice. Admission to College Student Personnel Administration is required.

EDH 6505 Budgeting, Finance, and Governance in Higher Education
3 sh (may not be repeated for credit)

Will provide students with a theoretical and practical overview of budgeting, finance, and governance in higher education in general and student affairs specifically. Topics will include budget components and processes, the relationship of strategic planning to budgeting, models for financing the higher education enterprise, and comparative governance models.

EDH 6634 Introduction to College Student Personnel
3 sh (may not be repeated for credit)

Provides a comprehensive introduction to college student personnel administration and its role in American higher education. Introduces philosophical and theoretical concepts; the history of modern student affairs work in higher education; the roles and functions of selected professionals in the field; a review of the skills and competencies required for the professions; and discussion of current issues and concerns relevant to college student services.

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

EDH 6948 Internship in Higher Education
3 sh (may be repeated for up to 6.000 sh of credit)

Consists of two components, one involving practical application and the second involving an approved independent study. Interns will work on one or more projects or activities in an appropriate students affairs or student support services unit. Practical experience must include specified learning outcomes and appropriate documentation of work and learning. The practical experience component will provide the opportunity to observe how a student affairs or student services unit operates and to learn about critical issues, essential knowledge, and applicable skills required to be successful in the field. The independent study portion of the internship will allow development of an area of special interest and expertise. Permission is required.

EDH 7205 Curriculum Development in Higher Education
3 sh (may not be repeated for credit)

Emphasis on curriculum perspectives, procedures, and practices in higher education; principles of curriculum and instruction in higher education; theory and practices in goal setting, curriculum planning, instructional improvement, and curriculum design.

EDH 7632 Leadership in Higher Education
3 sh (may not be repeated for credit)

Designed for current and prospective leaders who seek to learn more about leadership in higher education in this new global area, students will study several theoretical perspectives that have gained some credibility and research basis over the last several decades. In addition, students will read about or hear first person accounts of leaders? experiences in administrative roles. Participants will be asked to relate course material to their own current experience and personal goals. The ultimate goal of the course will be to create a personal knowledge base from which to create a plan for developing or refining one?s own leadership perspectives. In effect, the theme for the course will be: How can someone utilize current theory and literature and the experiences of practicing leaders to become a more effect leader?.

EDH 7633 Governing Colleges and Universities
3 sh (may not be repeated for credit)
Prerequisite: EDH 6051

Students will examine and compare existing state and local college and university governance structures. Demographic, social, legal, financial and planning issues and forces that effect how colleges and universities are governed will also be explored. Academic and Administrative Unit Governance within institution of higher Education will be highlighted. Policy analysis and research will be explored as it relates to governance in higher education. Prerequisites: EDH 6051.

EDH 7635 Organization and Administration of Higher Education
3 sh (may not be repeated for credit)

Provides opportunities for students to explore and generate greater understanding of the organization and administration in higher education by examining the concepts and behaviors of those organizations and administrators.

EDH 7636 Organizational Theory and Practices in Higher Education
3 sh (may not be repeated for credit)

Explores theories and models of organizations and their applicability to colleges and universities and the work done in them. Pays particular attention to aspects of decision-making, leadership and organizational change and to the influence of internal and external actors. Also examines many of the administrative practices and processes common in colleges and universities today.

EDM-Education: Middle Courses

EDM 3230 Mid Sch Org & Curr
3 sh (may not be repeated for credit)

EDM 3322 Integrated Methods I
3 sh (may not be repeated for credit)

Teacher's role in delivering content specific curricula within the middle school will be the focus. Students will develop ability to construct lesson plans of various types that integrate specialized content across the middle level curriculum. Basic lesson plans for direct instruction, guided discovery, problem-centered learning, and class and individual projects will be developed. Planning for implementation of cooperative learning, alternative assessment, and verbal techniques that encourage student thinking will be addressed. Students will become familiar with content specific manipulatives, other instruction tools, and ways to organize and communicate information in written and oral modes. Development of the emerging professional at the tech level will be emphasized.

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

EDM 3942 Field Experience 1
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234 AND EDM 3230* AND EDM 3322*

This experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Student will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 4310 Instruction, Management, and Assessment- Middle
3 sh (may not be repeated for credit)

Strategies for managing the classroom, instruction, and evaluation as it relates to teaching the essential school competencies.

EDM 4402 Educational Assessment
3 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments; (3) interpreting standardized assessments commonly used in public schools.

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

EDM 4943 Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EDM 3942 AND TSL 4080

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 6235 Integrated Curriculum and Instruction/Middle Level Education
3 sh (may not be repeated for credit)

Advanced curriculum for graduate middle level education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphases of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

EDM 6411 Practical Applications and Issues in Classroom Management: Middle Level Education
3 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for middle level classroom management. Develop a knowledge base of classroom practices and application for individual, small group, and large groups in student respective grade level or education settings.

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

EDM 6911 Action Research
1-6 sh (may not be repeated for credit)

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

EDM 6912 Research Practicum
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: EDG 5366

Identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

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

EDP-Educational Psychology Courses**EDS-Education: Supervision Courses**

EDS 5905 Directed Study

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

EDS 6105 Human Relations and Communication in Education

3 sh (may not be repeated for credit)

Theoretical and experiential framework for maximizing human relations and communication within the educational domain including principles of persuasion, public information management, effective communication strategies and personal effectiveness with staff and the public.

EDS 6905 Directed Study

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

EED-Education: Early Childhood Courses

EEC 3905 Directed Study

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

EEC 4905 Directed Study

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

EEC 5905 Directed Study

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

EEC 6263 Integrated Curriculum Development and Instruction/Early Childhood Education

3 sh (may not be repeated for credit)

Basis and techniques for making curriculum decisions, survey of curriculum content and programming appropriate for children three to eight years of age; clinical and field-based involvement with development and implementation of practices consistent with diagnostic/prescriptive teaching through individualized instruction. At least one course in early childhood education is required.

EEC 6305 Practical Applications and Issues in Classroom Management: Primary Education

3 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for primary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large group in student respective grade level or educational settings.

EEC 6905 Directed Study

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

EEE-Electrical Electron Eng Courses

EEE 3308 Electronic Circuits I

3 sh (may not be repeated for credit)

Prerequisite: EEE 4308L* AND EEL 3111 AND EGN 3204

Fundamentals of analog electronic circuits and systems. A grade of "C" or better is required in the prerequisites. Credit may not be received in both EEE 3308 and EEL 3304.

EEE 3396 Solid-State Electronic Devices

3 sh (may not be repeated for credit)

Prerequisite: CHM 2045 AND EEL 3111

Introduction to the principles of semiconductor electron device operation. A grade of "C" or better is required in the prerequisite.

EEE 4306 Electronic Circuits II

3 sh (may not be repeated for credit)

Prerequisite: EEE 3308 AND EEE 4306L* AND EEE 4308L AND EEL 3112

Design-oriented continuation of EEL 3304C; feedback on am circuits and applications, digital electronics. A grade of "C" or better is required in the prerequisites.

EEE 4306L Electronic Circuits II Laboratory

1 sh (may not be repeated for credit)

Prerequisite: EEE 3308 AND EEE 4306* AND EEE 4308L AND EEL 3112

Electronic Circuits II laboratory. A grade of "C" or better is required in the prerequisites. Material and Supply fee will be assessed. Credit may not be received in both EEE 4306L and EEL 4306L.

EEE 4308L Electronics Laboratory

1 sh (may not be repeated for credit)

Prerequisite: EEE 3308* AND EEL 3117L

Electronic instrumentation devices and systems. Material and supply fee will be assessed. A grade of "C" or better is required in the prerequisites. Credit may not be received in both EEE 4308L and EEL 4304L.

EEE 4310 VLSI Circuit Design

3 sh (may not be repeated for credit)

Prerequisite: EEE 3308 AND EEL 3701

Analysis and design of digital circuits using MOS and bipolar devices.

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

EEL-Engineering: Electrical Courses

EEL 2948 Service Learning Field Study I

1-3 sh (may be repeated for up to 4.000 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

EEL 3111 Circuits I

3 sh (may not be repeated for credit)

Prerequisite: EGN 3204* AND MAC 2313 AND PHY 2049

Co-requisite: EEL 3117L

Basic Analysis of DC and AC electric circuits. A grade of "C" or better is required in the prerequisite(s).

EEL 3112 Circuits II

3 sh (may not be repeated for credit)

Prerequisite: EEL 3111 AND EGM 4313* AND MAP 2302

Co-requisite: EGM 4313

Continuation of EEL 3111 with emphasis on circuit applications of convolution, the Fourier series, and the Laplace and Fourier transforms. A grade of "C" or better is required in the prerequisites.

EEL 3117L Electrical Circuits Laboratory

1 sh (may not be repeated for credit)

Prerequisite: EEL 3111*

Introductory electrical engineering laboratory in electrical instrumentation, devices, and systems. Material and supply fee will be assessed. Credit may not be received in both EEL 3117L and EEL 3303L.

EEL 3135 Discrete-Time Signals and Systems

3 sh (may not be repeated for credit)

Prerequisite: (EEL 3112*) AND (EEL 4834 OR COP 3014 OR EGN 3203)

Difference equations, discrete convolutions, the z transform, discrete and fast Fourier transforms, digital processing of analog signals, sampling theorem, probability and random signals.

EEL 3211 Basic Electric Energy Engineering

3 sh (may not be repeated for credit)

Prerequisite: EEL 3111 AND EEL 3112*

Introduction to the fundamentals of energy conversion; Power transformers, DC machines, Poly-phase induction machines, synchronous machines, single phase motors and permanent magnet machines, Speed control of DC motors, Speed control of ac motors. A C is required in the prerequisites to this course.

EEL 3472 Electromagnetic Fields and Applications I

3 sh (may not be repeated for credit)

Prerequisite: MAC 2312 AND PHY 2049

Electric and magnetic fields and forces, Maxwell's equations in point and integral form, plane wave propagation, energy and power.

EEL 3473 Electromagnetic Fields and Applications II

3 sh (may not be repeated for credit)

Prerequisite: EEL 3472

Maxwell's equations, electromagnetic wave propagation in different media, antennas, waveguides, numerical methods, electromagnetic coupling. A grade of "C" or better is required in the prerequisite(s).

EEL 3701 Digital Logic and Computer Systems

3 sh (may not be repeated for credit)

Prerequisite: (MAC 2311* OR MAC 1114 OR MAC 2312) AND (EEL 3701L*)

Co-requisite: EEL 3701L

An overview of logic design, algorithms, computer organization, sequential circuit design, and computer engineering technology.

EEL 3701L Digital Logic and Computer Systems Laboratory

1 sh (may not be repeated for credit)

Prerequisite: EEL 3701*

Practical applications of digital logic. Material and supply fee will be assessed.

EEL 3905 Directed Study

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

EEL 4213 Electric Energy Systems 1

3 sh (may not be repeated for credit)

Prerequisite: EEL 3211

System models for generators, transformers, transmission lines and large-scale power networks. Matrix formulations, power flow and analysis, symmetrical component theory, balanced and unbalanced fault analysis. A grade of "C" or better is required in the prerequisite(s).

EEL 4242 Power Electronic Circuits

3 sh (may not be repeated for credit)

Prerequisite: EEE 3308

Circuit topologies, analysis, design, and simulation of electronic circuits such as power supplies and motor drives. A grade of "C" or better is required in the prerequisite(s).

EEL 4276 Cyber Security of Industrial Control System

3 sh (may not be repeated for credit)

This course is used to teach and share in-depth defense strategies and up-to-date information on cyber threats and mitigations for vulnerabilities with the goal of improving cyber security preparedness in the industrial control systems community. This course provides an overview of operations security for industrial control systems and prepares the students for the risks and threats associated with electric grids and other centralized and distributed control systems. Offered concurrently with EEL 5277; graduate students will have additional work.

EEL 4283 Introduction to Renewable Energy

3 sh (may not be repeated for credit)

Prerequisite: CHM 2045 AND ENC 1102 AND PHY 2049

The main objective of this course is to study the different types of energy sources and storages, renewable energy systems, energy distribution, energy policy and management. Computer-aided analysis of renewable energy resource information and data for evaluating energy potential and energy costs.

EEL 4514 Communication Systems and Components

3 sh (may not be repeated for credit)

Prerequisite: EEL 3112 AND EEL 3135 AND EEL 4514L* AND EGM 4313

Theory of communication, and applications to radio, television, telephone, satellite, cellular telephone, spread spectrum, and computer communication systems. A grade of "C" or better is required in the prerequisite(s).

EEL 4514L Communication Laboratory

1 sh (may not be repeated for credit)

Prerequisite: EEE 4308L AND EEL 4514*

Experiments with communication circuits and radio frequency instruments, devices, and measurements. Material and Supply Fee will be assessed.

EEL 4635 Digital Control Systems

3 sh (may not be repeated for credit)

Prerequisite: EEL 3135 AND EEL 3701 AND EEL 4657

A study of the digital computer as a control element, classical sampled data control theory, and application with microcomputers. A grade of "C" or better is required in the prerequisites.

EEL 4657 Linear Control Systems

3 sh (may not be repeated for credit)

Prerequisite: EEL 3112 AND EEL 3135*

Theory and design of linear control systems. A grade of "C" or better is required in the prerequisite.

EEL 4657L Linear Controls Laboratory

1 sh (may not be repeated for credit)

Prerequisite: EEL 4657*

Practical applications of linear control theory.

EEL 4663 Elements of Robotics
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112

An introductory course in the multidisciplinary field of robotics with analysis and design of robots and robotic tasks. Includes class projects in robot programming and design. A grade of "C" or better is required in the prerequisite(s). Material and supply fee will be assessed.

EEL 4712 Digital Design
3 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701)
Co-requisite: EEL 4712L

Advanced modular logic design, design languages, finite state machines, and binary logic. A grade of "C" or better is required in all prerequisites.

EEL 4712L Digital Design Laboratory
1 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701*)
Co-requisite: EEL 4712

Design and applications of advanced digital logic using VHDL.

EEL 4713 Digital Computer Architecture
3 sh (may not be repeated for credit)
Prerequisite: EEL 4712

The use of electronic digital modules to design computers. Organization and operation of computers. Hardware/software trade-offs. Design of computer interfacing.

EEL 4744 Microprocessor Applications
3 sh (may not be repeated for credit)
Prerequisite: (EEL 4834 OR COP 3014) AND (EEL 3701)

Elements of microprocessor-based systems; hardware interfacing and software design for their application. A grade of "C" or better is required in the prerequisite(s).

EEL 4744L Microprocessor Applications Laboratory
1 sh (may not be repeated for credit)
Prerequisite: (EEL 4834* OR COP 3014) AND (EEL 3701L)
Co-requisite: EEL 4744

Practical applications of microprocessor-based systems, software and hardware interface. A grade of "C" or better is required in the prerequisites. Material and supply fee will be assessed.

EEL 4759 Digital Image Processing
3 sh (may not be repeated for credit)
Prerequisite: EEL 3112 AND EGN 3203

An introduction to digital images and digital image processing techniques, including frequency and spatial image enhancement, image restoration, wavelets and morphology.

EEL 4822 Pattern Recognition
3 sh (may not be repeated for credit)
Prerequisite: EEL 4834 AND EGN 3203

An introduction to pattern recognition and classification techniques, including Bayesian classifiers, linear and non-linear classifiers, clustering, perceptrons, and feature generation/selection.

EEL 4834 Programming for Engineers
3 sh (may not be repeated for credit)
Prerequisite: MAC 1114 OR MAC 2311* OR MAC 2312

Develop computer skills and art of writing good computer programs using a high level programming language like C. Examples and exercises relevant to Electrical Engineering are used.

EEL 4905 Individual Problems in Electrical Engineering
1-12 sh (may not be repeated for credit)

May be repeated with a change of content up to a maximum of 4 credits. Selected problems or projects in the student's major field of engineering study. Permission is required.

EEL 4930 Special Topics in Electrical Engineering
1-4 sh (may be repeated for up to 6.000 sh of credit)

May be repeated with change of content up to a maximum of 6 credits. Special courses covering selected topics in electrical engineering. Permission is required. A grade of "C" or better is required in the prerequisite(s). (Contact the department for prerequisites).

EEL 4940 Engineering Internship
1 sh (may be repeated for up to 3.000 sh of credit)
Prerequisite: EEL 3111 OR EEL 3701

Practical and significant electrical and/or computer engineering based work experience under approved industrial supervision. Graded on a satisfactory / unsatisfactory basis only. Permission from department co-op advisor is required.

EEL 4949 Co-Op Work Experience
1 sh (may be repeated for up to 4.000 sh of credit)

Practical co-op work under approved industrial supervision. Grading is on satisfactory / unsatisfactory basis only. Permission is required.

EEL 5277 Cyber Security of Industrial Control System
3 sh (may not be repeated for credit)

This course is used to teach and share in-depth defense strategies and up-to-date information on cyber threats and mitigations for vulnerabilities with the goal of improving cyber security preparedness in the industrial control systems community. This course provides an overview of operations security for industrial control systems and prepares the students for the risks and threats associated with electric grids and other centralized and distributed control systems. This course introduces students to new developments in cyber threats, breaches and incidents in electrical grid and other industrial control systems. The course also discusses issues and methods to improve industrial security on the automation platform. Offered concurrently with EEL 4276; graduate students will have additional work.

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

EET-Electronic Engin Tech Courses

EET 3038C Advanced Circuit Analysis
4 sh (may not be repeated for credit)

Advanced course in circuit analysis that stresses network theorems; solutions of time and frequency domain problems; magnetic coupling; three phase circuits; transformer theory and impedance matching; two-port parameters. Includes a computer lab to analyze the above circuits. DC and AC courses, offered at Junior and Community colleges under various course numbers are required. An introductory course in programming is also needed.

EET 3218C Control Systems Technology
4 sh (may be repeated for up to 5.000 sh of credit)
Prerequisite: MAC 1105

To develop basic knowledge on; controllers and their principles, control loop characteristics, selection, design and development of feedback control systems.

EET 3321C Communication Systems
4 sh (may not be repeated for credit)

Develops competencies in the theory and industrial application of modern communication systems. Introductory course with experiments in transmission systems, waveguides, fiber optics, microwaves, and lasers. Credit may not be received in both EET 3321C and EET 3326C.

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

EET 3949 Cooperative Education
1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of Cooperative Education director is required.

EET 4146 Electronic Circuits and Application Technology
3 sh (may not be repeated for credit)

Application of theoretical concepts in analog electronic circuits and development of electronic projects. Processes involved in the design and development of an electronic project with hands-on experience, including working with electronic circuits and project design techniques such as development of drawing, testing using multimeter, troubleshooting, and bread board and actually preparing the product on the printed circuit board.

EET 4356C Advanced Communication
4 sh (may not be repeated for credit)
Prerequisite: EET 3321C

Advanced concepts in digital communication systems; students will study and conduct laboratory experiments in advanced communication systems (video, facsimile, telephone, modems, RS232, cellular phones, networks and fiber optics).

EET 4513 Electric Machinery
3 sh (may not be repeated for credit)

Study of electric machinery, including direct current motor and generator, induction and synchronous motors and generators for single phase and three phase systems. Emphasis is on practical applications, principles of operation and performance characteristics. Courses in AC and DC circuits are required.

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

EET 4930 Seminar: Electrical Engineering Technology
3 sh (may be repeated indefinitely for credit)

Participation in advanced discussions of electrical engineering technology. Topics will vary depending upon the needs of each class of students. Senior status in electrical engineering technology is required.

EET 4941 Internship/Project in Electrical Engineering Technology
3 sh (may be repeated for up to 6.000 sh of credit)

Observation and participation in electrical engineering technology based project/seminar with a training related settings. Designed to reinforce academic preparation; confirm education and career goals; and facilitate personal and professional development. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

EEX-Educ:Excep Child-Core Comp Courses

EEX 3070 Methods in Inclusion and Collaboration
3 sh (may not be repeated for credit)

Required for all education majors. Structure and content are based on the University of West Florida's model for professional education, the Empowered Person and Professional taking action. Views future teachers as being: 1) critical thinkers, 2) problem solvers, 3) decision makers, 4) counselors / therapists, 5) ethical and moral beings, 6) lifelong learners, and 7) active professionals. Therefore it provides students a knowledge base of varying exceptionalities, as well as, multiple instructional and management strategies. Students also will be actively involved in experimenting with instructional and behavioral strategies, examining the professional literature, and problem solving in relation to specific cases of students with disabilities or diverse cultural backgrounds. Additionally, information about special needs students, agencies and resources. Students will also become aware of the use of technology in meeting the needs of students with physical, sensory and communicative disabilities. Includes required field experience.

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

EEX 4141 Survey of Normal and Abnormal Language and Speech Development
3 sh (may not be repeated for credit)

Comparison of normal and deviant patterns of language and speech development. Etiology and remedial programs emphasized.

EEX 4221C Evaluation and Prescriptive Instruction for the Exceptional Child
3 sh (may not be repeated for credit)

Development of skill in administration, interpretation and construction of formal and informal tests for evaluating children and individualizing instruction for exceptional children. Field experience is required.

EEX 4254 Instructional Strategies for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: EEX 4255

Focuses on development, implementation, and evaluation of educational plans; special approaches to teaching basic academic and functional skills; developmental programming and data-based management of instruction. Emphasis is also placed on developing awareness of the specific instructional needs of culturally diverse students.

EEX 4255 Curriculum for Teaching Students with Exceptionalities
3 sh (may not be repeated for credit)
Prerequisite: RED 3310

An introduction to specialized curriculum and instructional materials for teaching students with high incidence disabilities (learning disabilities, emotional handicaps and cognitive disabilities). This course also provides knowledge and skills required for organizing and directing various instructional strategies in the inclusion classroom. Content includes teaching strategies, approaches to classroom management and discipline, student motivation, student and teacher assessment and evaluation.

EEX 4261 Educational Management of Exceptional Children
3 sh (may not be repeated for credit)

Materials, methods and management techniques appropriate for use with exceptional children. Includes classroom organization and consultation skills. Includes required field experience.

EEX 4474 Curricula for Teaching Students with Severe Disabilities
3 sh (may not be repeated for credit)
Prerequisite: EEX 4141* AND EEX 4255

An introduction to functional curricula pertaining to students with severe disabilities including: intellectual disabilities, physical impairments, and autism. Emphasis is on family-centered planning, team approaches, access to the general education curriculum, activity-based instruction, and community-based instruction. Specific information on curriculum and instructional strategies related to communication, motor, and self-care skills will be included.

EEX 4772 Personal, Social and Employment Skills for Exceptional Students
3 sh (may not be repeated for credit)

Identifying employment goals and skills, career awareness, and transition planning for adult living are the central focus. Emphasis is placed on identifying access points to available community resources, adaptive/assistive technology, grants, personal technology uses and aids, self-determination and self-advocacy. Includes required field experience.

EEX 4832 Field Experience I
3 sh (may not be repeated for credit)
Prerequisite: EDF 3234

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practical Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a satisfactory / unsatisfactory basis only. Permission is required.

EEX 4833 Field Experience 2
3 sh (may not be repeated for credit)
Prerequisite: EEX 4832 AND TSL 4081*

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of settings that simulate a classroom experience. Students will also complete a minimum of 100 hours in a field placement, with 25 hours devoted to an ESOL placement. Successful students will also demonstrate proficiency on the Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.) Graded on a satisfactory / unsatisfactory basis only. Permission is required.

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

EEX 5085 Integrating Curriculum and Instruction
3 sh (may not be repeated for credit)

Comprehensive knowledge base concerning curriculum and instruction for individuals preparing to teach students with diverse needs. Topics emphasized include a) curricular standards, influences and design, b) instructional materials, curricula and resources, and c) teaching methodology and best practices.

EEX 5283 Employment, Social, and Personal Skill Building for Exceptional Students
3 sh (may not be repeated for credit)

Includes an intensive examination of programs and services and development of well researched strategies for teaching personal, social, employment, and transition skills for students into advanced vocational prep., the workplace and independent living. Provides graduate level field-based classroom experiences in applying career development strategies, job coaching, transition planning, and research related to employment, social, and personal skill development of student with disabilities.

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

EEX 6035 Best Practices in Teaching Challenging Students
3 sh (may not be repeated for credit)

A comprehensive overview of the exceptional student to include the knowledge, skills, and dispositions needed to be an effective teacher in the ESE classroom or inclusive education environment. Covers a broad range of topics to prepare the professional for the Florida Teacher Certification Examination for K-12 ESE. Discusses best practices as reflected in the professional literature related to effective program development and delivery for students who are at-risk or identified as needing special educational services.

EEX 6051 Exceptionalities

3 sh (may not be repeated for credit)

Is a requirement for students in the Middle Level and Secondary Education (M.Ed.) Program. The underlying model which permeates this course is the teacher as Empowered Person and Professional taking action. This model focuses learning experiences on activities that permit the teacher to examine what he / she does and to take an active role in the instructional process. Through lecture, discussion, and projects, this course provides a comprehensive knowledge base pertinent to the nature and needs of persons with disabilities, at risk, and with special gifts and talents. It includes a discussion of assessment, service provision, and education of exceptional individuals.

EEX 6205 Typical and Atypical Development (Birth-5)

3 sh (may not be repeated for credit)

Provides participants with the knowledge of the stages and sequences of skill acquisition and the impact of disabilities and biomedical risk factors on learning and development. Covers normal child growth and development from conception to age five and what can go wrong at the different developmental stages; from genetic contributions through conception and pregnancy to birth and to five years of age. Discusses crucial times for deficiencies.

EEX 6222 Practical Applications and Issues Classroom Management

3 sh (may not be repeated for credit)

Analyze professional literature focused on the best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical response and individual best practices for exceptional student education classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large groups in student respective grade level or education settings.

EEX 6225 Assessment of Exceptional Children

3 sh (may not be repeated for credit)

Development, administration, and scoring of group and individual tests and assessment devices for determining scope and depth of educational achievement as well as standardized and alternative assessment methods of specific abilities and behaviors which relate to or constitute prerequisites to educational programs. Students develop proficiency in the development of tests, rating scales, and alternative assessment devices for use with students with learning disabilities, emotional handicaps, and mental handicaps. Credit may not be received in both EEX 6225 and EEX 6227.

EEX 6340 Action Research

3 sh (may be repeated for up to 6.000 sh of credit)

Implementation of proposal in Research Practicum including identification of a problem in the area of Special Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on satisfactory / unsatisfactory basis only.

EEX 6455 Program Development for PreK Disabilities

3 sh (may not be repeated for credit)

Program development for handicapped and at-risk infants, toddlers and preschoolers; includes administration, supervision, curriculum development parent involvement, staff development, funding and evaluation.

EEX 6612 Behavior Management

3 sh (may not be repeated for credit)

Provides a comprehensive knowledge base concerning behavior management including structuring the classroom for success, assessing and managing individuals and group behavior, and motivating and managing exceptional and at-risk students.

EEX 6707 Assessment for Early Intervention for PreK Disabilities

3 sh (may not be repeated for credit)

Investigates assessment tools used in early intervention and early childhood special education. Explores the strategies and procedures used for screening, diagnoses and program planning.

EEX 6732 Parent-Teacher Team and Agencies for PreK Disabilities

3 sh (may not be repeated for credit)

Parent-teacher team interaction for handicapped and at-risk infants, toddlers and pre-schoolers to age five. Agencies with services for birth to five years of age will be included.

EEX 6905 Directed Study

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

EEX 6940 Practicum in Special Education

1-3 sh (may be repeated for up to 6.000 sh of credit)

Designed to provide the critical opportunity for students to demonstrate their ability to write lesson plans, deliver individualized instruction and manage the classroom in a relevant field setting. Minimum of 100 hours in a special education, K-12, setting.

EEX 6945 Research Practicum in Special Education

3 sh (may not be repeated for credit)

Prerequisite: EDG 5366

Explores investigative inquiry of relevant topics within the field of special education. Includes instruction in applied research models, analysis and synthesis of professional literature, formulation of research questions, development of a plan of action, and problem solving within investigative inquiry.

EEX 7060 Seminar: Best Practices in Alternative and Special Education

3 sh (may be repeated for up to 6.000 sh of credit)

Students will develop a knowledge base of instructional issues including program alternatives, development of curriculum, developing instructional interventions, and microcomputers and instruction. Students will focus on best practices related to behavioral management, learning strategy instruction, and career education for those students who are not successfully adjusting to the normal school setting.

EEX 7215 Ecological Assessment and Intervention in Alternative and Special Education

3 sh (may not be repeated for credit)

Students will develop a knowledge base of the theoretical principles underlying ecological assessment in alternative and special education settings. Students will be given opportunities to apply ecological assessment procedures in alternative and special education setting to refine their assessment skills and to use the assessment data to plan and implement behavioral and instructional interventions. Credit may not be earned in both EEX 7212 and EEX 7215.

EEX 7343 Contemporary Trends in Special Education
3 sh (may not be repeated for credit)

Examines current research related to current trends in special education. Of particular importance will be an analysis of historical antecedents related to these trends, an examination of associated data bases, and implications for future trends.

EEX 7344 Current Research Applications in Special Education
3 sh (may not be repeated for credit)

Examines current research findings concerning assessment, instructional planning, and evaluative procedures used with various age groups and disabilities. Past and current practices as well as those procedures that have been found to be most effective will be addressed.

EEX 7457 Changing Paradigms in Education
3 sh (may not be repeated for credit)

Develop a knowledge base of major issues confronting the education. Understand current practices and relate these to the future needs of students. Additionally, students will be encouraged to explore ways in which programs and services can be restructured to meet current and future needs.

EEX 7773 Transitional Planning for At-Risk Students
3 sh (may not be repeated for credit)

Students will develop a knowledge base of transitional issues including historical perspectives, legislative mandates for transitional planning, skills and needs of at-risk students, models of transition programs, barriers and supports to transition, professional responsibilities, work and independent living supports, and current and future transitional needs. Students will focus on best practices related to vocational rehabilitation, vocational education, career education, and community education for those students who would not successfully adjust to adult living without these services.

EEX 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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

EGI-Education: Gifted Courses

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

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

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

EGM-Engineering: Science Courses

EGM 2500 Engineering Mechanics-Statics
2 sh (may not be repeated for credit)
Prerequisite: MAC 2313* AND PHY 2048

Covers basic aspects of reduction of force systems, equilibrium of particles and rigid bodies, vector methods, and application to structures and mechanisms.

EGM 3401 Engineering Mechanics-Dynamics
3 sh (may not be repeated for credit)
Prerequisite: EGM 2500 AND MAC 2313

Covers material of EGM 3400 plus extended coverage of three dimensional rigid-body dynamics and of orbital motion.

EGM 4313 Intermediate Engineering Analysis
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MAP 2302*

Engineering applications of linear algebra, vector differential, calculus (including the concepts of gradient, divergence, and curl), complex variables (and functions of complex variables), and fourier series and transforms. Engineering applications of statistics.

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

EGN-Engineering: General Courses

EGN 1008C Concepts in Engineering
3 sh (may not be repeated for credit)

Stimulate and maintain the student's interest in the field of engineering. Provides an insight into the various fields of engineering as well as the appropriate computational skills required for success in subsequent courses in their respective engineering program. Credit may not be received in both EGN 1008C and EGN 1006C.

EGN 3204 Engineering Software Tools
1 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Gives students an introduction to important Engineering software tools such as MATLAB, Labview, MATHCAD, and FSPICE.

EGN 3613 Principles of Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Time value of money and discounted cash flow. Cost comparison of alternatives involving depreciation, taxes, inflation and profitability. Financial statements, break-even and minimum cost analysis and economic optimization.

EGN 4950 Capstone Design I
1 sh (may not be repeated for credit)

Preliminary work on senior design project. This portion of the senior design will focus on the objectives and criteria, synthesis, and analysis elements of project development. After developing design concepts, researching for implementation methods, and performing a feasibility study (which will include economic, social, ethical, etc., factors), the semester will culminate with a senior design project proposal and presentation.

EGN 4952L Capstone Design II
2 sh (may not be repeated for credit)
Prerequisite: EGN 4950

Continuation of Capstone Design I, with emphasis on construction, testing, and evaluation elements of project development. Material and Supply fee will be assessed. Permission is required.

EGS-Engineering: Support Courses

EGS 1006 Introduction to Engineering
1 sh (may not be repeated for credit)

Introduces the student to engineering topics and guides the student toward Electrical and Computer Engineering at UWF. Students get the opportunity to interact with current engineering students and practicing engineers from various engineering fields. The student also participates in a hands-on design component. The goal of the class is to help the student make an informed choice about career alternatives.

EGS 4032 Professional Ethics
3 sh (may not be repeated for credit)
Prerequisite: ENC 1102

An interactive study of ethics, theory and the development of professionalism. Case studies of ethical conflicts in engineering practice. Covers engineering codes of ethics and requires students to resolve theoretical situations through application of ethical codes.

EIN-Industrial Engineering Courses

EIN 4354 Engineering Economy
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Basic principles and applications of economic decision making between alternatives encountered in engineering systems projects. The analysis will include methodologies of economics and finance in addition to engineering fundamentals. Upper division classification in engineering is required.

EME-Edu: Technology Media Courses

EME 1660C Engineering Technology Applications in Aviation
1-2 sh (may be repeated for up to 6.000 sh of credit)

Learners will apply engineering technology concepts to successfully plan and execute aviation-related mission scenarios in a high-fidelity fully immersive learning environment at the National Flight Academy in Pensacola, Florida.

EME 2040 Introduction to Educational Technology
3 sh (may not be repeated for credit)

Assists educators in developing skills and competencies which are essential to the integration of technology into the delivery of classroom instruction. Students will survey a wide variety of instructional technology materials and systems. They will also learn to use these tools in a classroom environment.

EME 2042 Introduction to Communications and Print Technologies
3 sh (may not be repeated for credit)

Communications and information professionals are required to design and develop print and multimedia-based products that promote effective teaching and learning. Students survey technology programs and systems that are commonly found in the communications and print professional environment as they explore how those products are used in professional environments that focus on teaching and learning.

EME 3002 Introduction to Intelligence
3 sh (may not be repeated for credit)

An examination of the five major intelligence disciplines: Human Intelligence, Signals Intelligence, Geospatial Intelligence, Open Source Intelligence, and Measurements and Signatures Intelligence in addition the concept of combining intelligence into an all-source formatted product. The concepts of Information Security and its offensive counterpart, Computer Network Operations are explored. Using real-life scenarios, students analyze strategies to achieve various end goals. From infiltrating a network of foreign spies, to developing a suspect's placement in a network based off of their call patterns, to assessing the technical capabilities of an adversary nation, students will be immersed in a variety of practical exercises where they will be asked to perform various types of analysis themselves. In addition, students will produce clear, concise, and accurate products for dissemination. Students will explain the general flow of information within an intelligence product and associated components.

EME 3003 Introduction to Intelligence Analysis
3 sh (may not be repeated for credit)

Designed for those individuals who might be interested in entering the local, state, or federal intelligence community, foundational knowledge of analytic concepts, partners involved, and their respective functions is explored. Examination of multiple federal agencies, including the Central Intelligence Agency, Federal Bureau of Investigations, Drug Enforcement Administration, Department of Homeland Security, National Security Agency, National Reconnaissance Office, National Geo-spatial-Intelligence Agency, Defense Intelligence Agency, and each military service-specific intelligence organization. Concept of information sharing between the local, state, and federal level intelligence organizations are explored. Overview of Human Intelligence, Signals Intelligence, Geo-spatial Intelligence, Imagery Intelligence, Measurements and Signatures Intelligence, Open Source Intelligence and All-Source Intelligence. Foreign intelligence threats and existing methods that can be employed to counter them are investigated. Key problems faced by the Intelligence Analyst such as are reviewed.

EME 3402 Information Technology Implementation Case Studies
3 sh (may not be repeated for credit)

Technology Systems professionals develop, implement, and operate systems composed of computers, networks, and telecommunications services. Topics related to information technology systems and information technology systems implementation will be explored and case studies will be used to illustrate the complex nature of the profession. In this survey of the field, students build foundational knowledge and skills they need to become effective Technology Systems professionals. Gordon Rule: Writing.

EME 3406 Web Presence Deployment Strategies
4 sh (may not be repeated for credit)

Technology Systems Specialists support the development and implementation of the web presence for an organization. An organization's web presence integrates a wide variety of technologies into a system that projects its identity and services out through the Internet via any number of media. This integration requires learners to plan, select, produce, organize and manage materials and systems in a variety of settings. Learners will develop strategies to design, develop, and evaluate information-based solutions that meet the needs of stakeholders with real-world communication problems.

EME 3410 Emerging Technology in the Classroom
1 sh (may not be repeated for credit)
Prerequisite: EME 2040

Examines specific methods for integrating technology (hardware and software) into subject area curricula in the classroom. Students will explore models of technology integration, classroom management and administrative tasks that can be performed more efficiently using technology, and learn strategies to select appropriate mediums when planning for technology integration. Individualization will allow each student to select and develop materials in their disciplines.

EME 3710 Engineering Technology Applications in CompTIA Security+
3 sh (may not be repeated for credit)

Security+ includes important foundational principles for securing a network and managing risk. Access control, identity management and cryptography are important components of the course. Mitigation and deterrent techniques are provided to prevent network attacks and expose potential vulnerabilities. Successful completion of the CompTIA Security+ exam meets the Information Assurance (I.A.) technical and management certification requirement outlined by the U.S. Department of Defense. Non-degree seeking students will be required to pass an online pre-test with a minimum score of 80% prior to enrollment.

EME 3711 Engineering Technology Applications in CompTIA Network+
3 sh (may not be repeated for credit)

Network+ includes topics in network technologies, installation and configuration, media and topologies, management, and security. Certification in Network+ enhances several occupations including: network administrator, network technician, network installer, help desk technician and IT cable installer. Network+ is the technical prerequisite option for IT technicians requesting to join the Apple Consultants Network. Successful completion of the certification exam is recognized by the U.S. Department of Defense. Non-degree seeking students will be required to pass an online pre-test with a score of 80% or better prior to enrollment.

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

EME 4001 Geospatial Analysis
3 sh (may not be repeated for credit)

Functions of geospatial toolsets, including setting up the workspace, adding imagery and various data-files, importing raw data from spreadsheets, reading data as a table, plotting data on a map, creating features, and manipulating data, are used to analyze cases and scenarios. Students will create professional products that can be used by analysts of all backgrounds. Students will use raw data for the analysis process.

EME 4313 Digital Media Services Operations
3 sh (may not be repeated for credit)

Multimedia development tools are employed by learners to produce and analyze the properties of multimedia objects. Learners define the performance and quality parameters of media objects and document the development processes necessary to create and deploy them. Learners evaluate the production and deployment processes for media components in the context of media project management and delivery operations. Learners examine the delivery system infrastructure requirements supporting media operations and the implication of those requirements for enterprise network planning and operation.

EME 4454 Technology Systems Implementation Strategies
3 sh (may not be repeated for credit)

Learners examine a distance learning technology implementation problem as a model for applying a systematic design, planning and development process to implement a large technology system. Learners will design a distributed learning system that uses emerging technologies to support distance delivery. They will produce planning documents that include system design, technical specifications, maintenance policies, project budgeting, resource sequencing and scheduling, requests for proposal development, project bid evaluation tools, and system performance evaluation processes.

EME 4474 Social Network Analysis
3 sh (may not be repeated for credit)

Social network analysis toolsets will be used to develop skills in integrating analytic disciplines and methods through real world scenarios by reading, creating, and manipulating SNA charts. Data sets will include class-generated content as well as large spreadsheets, where data will be manipulated through filters and conditional formatting, and using basic algorithms to analyze their data and locate patterns and trends. Interpretation of raw data and product generation using tables and charts, students will develop skills in reading, interpreting, and presenting findings.

EME 4622 Technology Systems Operations 1
4 sh (may not be repeated for credit)

Students will develop skills and abilities to effectively manage the operations of a networked technology system. Network-related fault management, configuration, security, performance, and utilization measurements will be addressed. Lessons will include in-depth examination and appropriate applications in each functional area. Hardware and software tools that are required to perform network management tasks will be examined.

EME 4627 Technology Systems Operations 2
4 sh (may not be repeated for credit)

Students learn advanced principles associated with designing, developing and operating technology systems for large organizations spanning one or more sites.

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

EME 4944 Internship/Practica
3 sh (may not be repeated for credit)

Observation of and participation in technology systems related roles in professional settings. Students participate in field-based experiences related to their course of study and future goals. Prerequisite: Permission of instructor.

EME 5355 Instructional Design for HPT
1.5 sh (may not be repeated for credit)

Instructional Systems Design is the basis of creating instructional-based interventions. Performance professionals and other non-instructional designers must be able to articulate systematic ways of integrating instructional interventions into the workplace from a pedagogical and practical viewpoint. Emphasized will be theories and models that support the design of instruction. Focus areas will include instructional strategies and media selection techniques, with an emphasis on integrating media rich elements into instruction.

EME 5403 Education and Training Technology Support Systems
4 sh (may not be repeated for credit)

Students learn advanced principles associated with designing and developing multi-site and enterprise-based support systems for education and training technologies and organizations that focus on developing effective learning environments and communities. Offered concurrently with EME 4627; graduate students will be assigned additional work.

EME 5457 Distance Education Technologies
3 sh (may not be repeated for credit)

Distance education will be investigated as an instructional method in terms of delivery, development, and implementation. Students will design a distance education environment that uses emerging technologies that support distance delivery. Offered concurrently with EME 4454; graduate students will be assigned additional work.

EME 5625 Technology Tools: Site-Based Educational Networks
4 sh (may not be repeated for credit)

Students learn the basic principles associated with designing and developing site-based networks that support education and training organizations. Major topics to be examined include: terminology, troubleshooting techniques and strategies, the future of educational networks. Offered concurrently with EME 4622; graduate students will be assigned additional work. Credit may not be received in both EME 5625 and EME 5315.

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

EME 6054 Foundations of Instructional Technology
3 sh (may not be repeated for credit)

Students investigate historical, sociological, and philosophical perspectives of instructional technology in education and training environments. Students develop the knowledge, skills, and abilities needed to integrate instructional technology theories and processes into education and training settings. Credit may not be received in both EME 6054 and EME 6053.

EME 6062 Applied Instructional Technology Investigations
3 sh (may not be repeated for credit)

This course provides an introduction to past, present, and future instructional technology research. Research paradigms and underlying theory appropriate for IT are emphasized. Quantitative, qualitative, and mixed methods research designs and appropriate data analysis techniques are explored.

EME 6256 Creativity and Innovation in the Learning Organization
3 sh (may not be repeated for credit)

Designed for students who believe they will one day be involved in a creative, entrepreneurial or "intrapreneurial" (corporate) opportunity within the learning organization (or invent a new learning organization) and would like to understand how to draw from their own creative skills. Students will engage with several innovation case studies of learning organizations as well as participate in applied assignments to support pedagogical innovation. Various strategies to promote disruptive innovation will also be explored in terms of how it impacts radical change in the learning organization. Creating a culture of creativity and innovation within the teaching and learning environment is paramount to this course. This course prepares students to contribute in unique and extremely productive ways to impact today's organizational demands.

EME 6314 Technology for Leaders
3 sh (may not be repeated for credit)

Provides leaders with the basic terminology, historical perspectives, theoretical basis, research and practical application of instructional technology to empower persons and professionals who work in educational settings. Builds knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques.

EME 6316C Instructional Management and Technology
3 sh (may not be repeated for credit)

Survey of the applications and uses of technology from a variety of perspectives, including education, training, military, public sector, and non-profits. Focusing on technology, information, and information technology literacy. Special attention is paid to providing a systematic view of the use of technology and information in organizations. Credit may not be received in both EME 6316C and EDG 6344C.

EME 6317 Instructional Technology for Educational Leaders
3 sh (may not be repeated for credit)

The basic terminology, technology skills, historical perspectives, theoretical basis, research and practical application of instructional technology for professionals who work in educational settings. Knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques to real-world situations. Upon completion of this course, students will have the ability to use instructional technology for administrative and instructional purposes and to plan, organize, and promote its use in PK-12 educational environments. Credit may not be received in both EME 6317 and EDF 6287.

EME 6357 Instrument Design for Performance Technology
1.5 sh (may not be repeated for credit)

Selection, design, development and critique of data collection instruments used in PT. Students develop skills to select appropriate data collection methods, critically examine existing instruments and design and develop new, situation-specific instruments to be used for PT process in a variety of organizational settings.

EME 6358 Evaluation for MSA Professionals
1.5 sh (may not be repeated for credit)

Develop skills in selecting appropriate models for conducting an evaluation in an administrative environment. A series of models will be evaluated for applicability and use in administrative environments.

EME 6408 Integrated Technology Learning Environments
3 sh (may not be repeated for credit)

Students evaluate how technology is impacting education and training from an instructional systems perspective, students will review what educational and training leaders are promoting for the future, what new approaches exist, and how to integrate this into a technology-rich learning environment. All content will be woven around current national and state reform and accountability efforts; standards for instructional technology; and competencies for instructional designers.

EME 6409 Distance Learning Implementation
3 sh (may not be repeated for credit)

Examines current theories, technologies and strategies related to the design, development and implementation of effective, efficient distance learning systems. Students will critique existing distance learning systems, examine the roles and responsibilities of instructors and students in distance learning and design, develop and implement a theoretically sound distance learning experience.

EME 6414C Web-Based Instructional Tools for Educators
3 sh (may not be repeated for credit)

Students will gain the knowledge and skills necessary to design and develop web-based instruction using a variety of current technologies. Through integrating theory and application, students will learn to critically examine the instructional capabilities of various technologies and identify instructional strategies that support integration. Multiple units of instruction will be developed and designed that demonstrate the ability to align technology integration with the principles of learning theory and instructional design.

EME 6415 Digital Video for Instruction
3 sh (may not be repeated for credit)

Principles of instructional video design and development including designing for learning objectives, effective audio and lighting techniques, video recording, editing, and delivery will be taught. Students will explore the opportunities and technical challenges associated with web-based video as a communication medium. Practical application projects are an integral part of the learning experience as students explore all aspects of instructional video pre-production, production, and post-production.

EME 6426 HPT Interventions
3 sh (may not be repeated for credit)

Human Performance Technologists, education and training leaders in organizations, identify gaps between desired and actual employee performance levels. Once the gaps have been identified, the HPT practitioner determines interventions or combinations of interventions that are needed to close those gaps. These interventions consist of instructional and non-instructional solutions that educators and trainers design and develop that, in turn, solve organizational performance problems.

EME 6427 Implementing HPT Interventions
3 sh (may not be repeated for credit)

Once performance gaps have been identified, Human Performance Technologists determine interventions or combinations of interventions that are required to close those performance gaps. The implementation of instructional and non-instructional interventions follows a process model that meets education and training needs of the organization. Guides the student in developing strategies for implementing those interventions.

EME 6428 Evaluating HPT Interventions
3 sh (may not be repeated for credit)

Students will examine the theory and practice of evaluation models and processes as they relate to the formative, summative and confirmative evaluation of instructional and non-instructional HPT interventions. Students will develop the knowledge, skills and abilities necessary to plan and conduct comprehensive evaluations based on best practices.

EME 6429 Human Performance Improvement
3 sh (may not be repeated for credit)

Models of human performance technology, associated processes, and procedures for completing the tasks ascribed to the various stages within the models/processes are explored.

EME 6458 Distance Learning Policy and Planning
3 sh (may not be repeated for credit)

Current issues and trends in distance learning and associated impact on policies and planning as related to design, development, delivery, evaluation, implementation, and administration of distance learning courses and programs. Theories of distance education are integrated with modern theories of learning and instruction and systems within education and training organizations, leading to the development of a conceptual framework for distance education and learning.

EME 6607 Instructional Technology Planning and Change
3 sh (may not be repeated for credit)

Incorporates organizational systems analysis and management as related to instructional projects and building technology-rich learning environments through comprehensive site-based technology plans. Students will develop the skills needed to design, develop, and manage instructional technology projects in organizations that continually change and evolve.

EME 6609 Principles of Instructional Design
3 sh (may not be repeated for credit)

Students will examine the use of instructional systems design models to create instruction that is appropriate from a pedagogical and practical viewpoint. Theories and models to support the design of instruction for use in a variety of instructional formats will be emphasized. Focus areas will include analysis, instructional goals and objectives, assessment, instructional strategies and the role of formative evaluation in instructional design. Students will apply theories and best practices to design a pedagogically sound instructional product.

EME 6626 Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6.000 sh of credit)

New technology and approaches to teaching and learning evolve and revolutionize how professionals approach technology integration. Explore how innovation and new technologies can be used in instructional strategies to promote performance and learning.

EME 6628 Contract Administration: Large Scale Instructional Technology Systems
3 sh (may not be repeated for credit)

Will incorporate selected concepts from the trends and issues in instructional technology, current large scale technological initiatives, project planning and contract administration for large scale instructional technology systems. Students will learn to search from a variety of funding sources in instructional technology funding, write proposals and grants, gather data from large databases (such as the MIS records), and manage/administer contracts from a project management perspective.

EME 6666 Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6.000 sh of credit)

New technology and approaches to teaching and learning evolve and revolutionize how professionals approach technology integration. Explore how innovation and new technologies can be used in instructional strategies to promote performance and learning.

EME 6812 Instructional Technology Seminar
3 sh (may not be repeated for credit)

Students will synthesize the research on instructional technology as it relates to teaching and learning. Students will study the influence of research and theory in instructional technology to suggest a model or set of constructs for technology based learning environments. Students exploring emerging technologies will be better prepared as decision makers and leaders in the field of instructional technology such as virtual reality, telepresence, hypermedia, cyberspace, and distance education have potential application for education and training. The full emergence into a technology based learning environment could revolutionize teaching and learning.

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

EME 6936 Seminar in PT Issues: Special Topics
1.5-9 sh (may be repeated for up to 9.000 sh of credit)

Performance Technology Professionals face a range of issues resulting from the implementation of PT theories and models. In this course, topics such as performance consulting, performance analysis, interventions will be explored. Strategies for implementation of the topic will be integrated into applications of performance technology.

EME 6946 Field Experiences in Instructional and Performance Technology
3-6 sh (may not be repeated for credit)

Observation and participation in instructional and performance technology organizational settings. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

EME 7063 Research on Emerging and Innovative Technology Systems
3 sh (may be repeated for up to 6.000 sh of credit)

Design and develop instructional systems that use innovative and emerging technologies to promote motivation, performance and learning in education and training systems. Build a research framework to investigate technologies and instructional systems.

EME 7417 Advanced Web-Based Learning Environments
3 sh (may not be repeated for credit)

Incorporates concept, theory, and research to the design, development, and evaluation of complex web-based learning environments. Included is the development of a WBI learning environment based on sound principles of learning theory and instructional design.

EME 7676 Advanced Instructional Design Theory
3 sh (may not be repeated for credit)

Students will research, critique and apply theories that support the practice of instructional design in various instructional situations. Students will examine the key components of the instructional system; the learner, the content and the context, and develop the knowledge, skills and abilities necessary to design and develop theoretically sound instruction. Theories examined will include systems theory, communication theories, learning theories and instructional theories.

EME 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

EME 7938 IT Research Design Seminar
3 sh (may not be repeated for credit)

Provides Instructional Technology advanced graduate students with the opportunity to conduct an in-depth examination of the processes and procedures in applied IT research, specifically as related to the dissertation process. Students explore how to determine appropriate topics for IT research, format and style for research publications, strategies for conducting literature reviews, hypotheses, a research design, and appropriate statistical application.

EME 8980 Dissertation
1-6 sh (may be repeated for up to 18.000 sh of credit)

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.

ENC-English Composition Courses

ENC 1101 English Composition I
3 sh (may not be repeated for credit)

Guided practice in critical thinking and the writing process for various rhetorical situations. Documented paper is included. Requires additional work in the Writing Center. General Education: Communication - English Composition 1. Gordon Rule: Writing.

ENC 1102 English Composition II
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101

Continuation of ENC 1101, with emphasis on complexities of style and rhetorical strategies. Documented paper is included. Course requires additional work in the Writing Center. General Education: Communication - English Composition 2. Gordon Rule: Writing.

ENC 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ENC 2412 Writing in the Digital Age
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102

Students will compose and analyze digital texts that incorporate images, sounds, video, and language. Course focuses on the theory, analysis, and production of digital texts such as blogs, Web sites, audio arguments, video, and photo essays.

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

ENC 3213 Introduction to Professional and Technical Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102

Students will learn an overview of professional and technical writing principles, current communication issues, research practices, and emerging technologies. This course focuses on communications skills essential for success in technical and professional communication, including audience analysis, collaboration, and document design. Students will create documents such as letters, manuals, reports and proposals used in a variety of workplace environments. Gordon Rule: Writing.

ENC 3240 Technical Writing
3 sh (may not be repeated for credit)

Practice in preparing documents used in science, business, industry, and government, including letters, manuals, reports and proposals.
Gordon Rule: Writing.

ENC 3250 Professional Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102

Professional writing course relevant in business, industry, government, and other institutional settings; major elements of written organizational communication with emphasis on composition of letters, memos, proposals, etc. Gordon Rule: Writing.

ENC 3350 Advanced Writing Studio
1 sh (may not be repeated for credit)
Co-requisite: ENG 3010

Advanced Writing Studio is a one-hour course that students take concurrently with ENG 3010 Critical Methods for Literature Study. Studio students will discuss and edit writing projects assigned in ENG 3010. Students receive one-on-one feedback on their writing in a small-group, workshop context. Class size is typically limited to 10 students. Writing Studio provides an intensive investigation into the skills and objectives that make critical writing effective. In a collaborative environment, students interpret assignments, generate and research ideas, invent topics, and write, evaluate, revise, and edit drafts.

ENC 3455 Introduction to Writing for Science, Technology, Engineering and Math Majors
3 sh (may not be repeated for credit)
Prerequisite: ((ENC 1101 AND ENC 1102)) AND (CHM 2211 OR GEO 1200/L OR GLY 2010/L OR MAC 2311 OR PHY 2048 OR COP 2253 OR COP 2334)

This class focuses on the writing style and research conventions of STEM communication. Students will learn how to identify audiences and determine purposes for writing so they can make informed choices about media, genre, content, organization, style, and visual design. Students develop their skills by writing and analyzing Lab Reports and abstracts and by applying the scientific method to solve problems.
Gordon Rule: Writing.

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

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

ENC 4940 Writing and Editing Internship
3-6 sh (may not be repeated for credit)

Students will be involved in all aspects of publishing magazines, brochures, and newspapers. They will research assigned topics, conduct interviews, write feature articles, edit and proof-read articles, and participate in editorial discussions. Permission is required.

ENC 5333 Topics in Rhetoric
3 sh (may be repeated for up to 9.000 sh of credit)

Examination of various topics in rhetoric, composition and / or pedagogy as they apply to the history, theory, analysis, and/or practice of rhetoric. Topics change each term. Contact department or instructor for specific topic.

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

ENC 5945 English Internship
3 sh (may be repeated for up to 6.000 sh of credit)

Course description: Students will be placed in internship positions with professional businesses and non-profit organizations in which they may use their advanced skills in writing, research, creativity, and analysis within a professional environment. Students will write final evaluations of their employer site, a lengthy research & reflection paper, and a professional portfolio. 12 hours of graduate courses must be completed prior to taking course. Permission is required. Offered only Fall and Spring Semesters.

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

ENG-English: General Courses

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

ENG 3010 Critical Methods for Literary Study
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. Gordon Rule: Writing.

ENG 3113 Fiction and Film
3 sh (may not be repeated for credit)

Selected prose fiction and film adaptations.

ENG 3843 Theories of Sexuality and Gender
3 sh (may not be repeated for credit)

Examines sexuality and gender as social constructs as opposed to "natural" categories or "essences." Includes feminism, gay and lesbian studies, and masculinity studies. Draws on many disciplines, including literature, history, sociology, anthropology, philosophy, and the sciences.

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

ENG 4013 Introduction to Literary Theory
3 sh (may not be repeated for credit)

Designed to provide an introduction to a wide range of current theories about the uses and effects of literature and literary criticism. Primarily for English majors and minors. Meets Multicultural Requirement.

ENG 4060 HISTORY OF THE ENGLISH LANGUAGE
3 sh (may not be repeated for credit)

Presents the history of the development of the English language, internal and external, from Indo-European roots to the present. Offered Spring Semester.

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

ENG 4934 Capstone Experience
3 sh (may not be repeated for credit)

Covers a wide range of literary genres and works that have been considered controversial at some point in their history because of their subject matter, form, or style. Changing attitudes toward what is considered "literature" or "literary" will be emphasized. Required texts will vary according to instructor's expertise. Permission is required.

ENG 5009 Introduction to Advanced Literary Study
3 sh (may not be repeated for credit)

Examination of the history and current state of literary studies and introduction to current methods and resources necessary for advanced literary studies.

ENG 5067 History of the English Language
3 sh (may not be repeated for credit)

Presents the history of the development of the English language, internal and external, from Indo-European roots to the present. Offered only Spring semester.

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

ENG 6018 History of Literary Theory
3 sh (may not be repeated for credit)

Survey of literary theory from Plato to contemporary thought.

ENG 6019 Topics in Literary Theory
3 sh (may not be repeated for credit)

Topics in literary theory.

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

ENG 6971 Thesis
1-6 sh (may be repeated for up to 12.000 sh of credit)

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

ENL-English Literature Courses

ENL 2010 History of English Literature I
3 sh (may not be repeated for credit)

Historical trends: Beowulf to 1660. Primarily for English majors and minors.

ENL 2020 History of English Literature II
3 sh (may not be repeated for credit)

Historical trends: 1660 to present. Primarily for English majors and minors.

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

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

ENL 4203 Old English Language
3 sh (may not be repeated for credit)

Language instruction for speaking, writing, and reading Old English. Offered Fall semester only.

ENL 4210 Topics in Medieval Literature
3 sh (may not be repeated for credit)

Prerequisite: ENL 2010

Students read and discuss a variety of texts by diverse authors across the 1000-year period which can be termed the extended Middle Ages, as well as significant precursor texts and authors, in order to discover lines of origin and influence for evolving formal, stylistic, socio-political and theological results, and to acquire an aesthetic appreciation of the literatures of the period. An awareness of significant critical and theoretical terminologies will be developed and incorporated into classroom discussion and writing projects.

ENL 4224 Topics in Early Modern Literature
3 sh (may be repeated for up to 8.000 sh of credit)

Focused study of a particular issue, theme or body of work in sixteenth and seventeenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary depending on faculty expertise and research interests.

ENL 4234 Topics in Eighteenth-Century British Literature
3 sh (may not be repeated for credit)

Focused study of a particular issue, theme or body of work in Restoration and eighteenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary according to faculty expertise and research interests.

ENL 4240 Topics in Romantic Literature
3 sh (may not be repeated for credit)

Selected topics engaging the prose and poetry of major Romantics: Blake, Coleridge, Wordsworth, Byron, Keats, Shelley.

ENL 4251 Topics in Victorian Literature
3 sh (may not be repeated for credit)

Covers the period leading up to and including the reign of Queen Victoria of England (1837-1901). Literary works will be considered in the context of numerous cultural transformations underway during the period.

ENL 4284 Topics in 20th-Century and Contemporary British Literature
3 sh (may not be repeated for credit)

Covers representative works from all genres written from 1900 to the present by authors living in the British Empire. Emphasis will be placed on Modernist and Postmodernist works.

ENL 4303 Single Author Seminar, British Literature, 1700 to the Present

3 sh (may not be repeated for credit)

Prerequisite: ENG 3010

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

ENL 4311 Chaucer
3 sh (may not be repeated for credit)

Canterbury Tales read in Middle English.

ENL 4333 Shakespeare
3 sh (may not be repeated for credit)

Selected comedies, histories and tragedies.

ENL 4341 Milton

3 sh (may not be repeated for credit)

Major and selected poems; emphasis on reading of Paradise Lost.

ENL 4905 Directed Study

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

ENL 5206 Old English Language

3 sh (may not be repeated for credit)

Language instruction for speaking, writing, and reading Old English. Offered Fall Semester.

ENL 5905 Directed Study

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

ENL 6297 Topics in British Literature to the Romantics

3 sh (may be repeated for up to 12.000 sh of credit)

Studies in major figures or movements in British literature until 1789.

ENL 6298 Topics in British Literature from the Romantics to Present

3 sh (may be repeated for up to 12.000 sh of credit)

Studies in major figures or movements in British literature from 1789. Topics change each term. See department or instructor for specific topic.

ENL 6905 Directed Study

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

ESE-Education: Secondary Courses

ESE 3905 Directed Study

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

ESE 4322 Instruction, Management, and Assessment: Secondary Education

3 sh (may not be repeated for credit)

Strategies for managing the classroom, instruction and evaluation as it relates to teaching the essential school competencies.

ESE 4323 Educational Assessment

3 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

ESE 4905 Directed Study

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

ESE 4940 Field Experience 1

3 sh (may be repeated for up to 6.000 sh of credit)

This field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Through this experience students will work in a variety of classroom settings. Students will also complete a minimum of 100 hours in a field placement. Successful students will also demonstrate proficiency on the Florida Educator Accomplished Practices Competencies and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, e.g., culturally and linguistically diverse, and students at risk for school failure. Permission is required.

ESE 5905 Directed Study

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

ESE 6217 Integrated Curriculum and Instruction/Secondary Education

3 sh (may not be repeated for credit)

Advanced curriculum course for graduate secondary education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphases of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

ESE 6343 Practical Applications and Issues in Classroom Management: Secondary Education

3 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for secondary education classroom management. Develop a knowledge base of classroom management practices and application to individual, small group, and large groups in student respective grade level or education settings.

ESE 6421 Research Practicum

3 sh (may be repeated for up to 6.000 sh of credit)

Prerequisite: EDG 5366

Identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

ESE 6426 Action Research

1-6 sh (may not be repeated for credit)

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory / unsatisfactory basis only.

ESE 6905 Directed Study

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

EST-Electronic Specialty Tech Courses

EST 3543 Programmable Logic Controllers
4 sh (may be repeated for up to 8.000 sh of credit)
Prerequisite: MAC 1105

Explore logic fundamentals, programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol.

EST 4538 Instrumentation
3 sh (may not be repeated for credit)
Prerequisite: PHY 2049 AND PHY 2054

The industrial application of instrumentation. Electrical, mechanical, and pneumatic instrument applications.

ETD-Engineer Technol: Drafting Courses

ETD 2320 Computer Aided Design
3 sh (may not be repeated for credit)

Application of industrial standard CAD program. Develop skills in CAD processes and procedures while working on real-world projects.

ETI-Engineering Tech: Indus Courses

ETI 3445 Construction Estimating
3 sh (may not be repeated for credit)

Processes involved in estimating, including the formats appropriate for construction jobs and projects. Terminology, software options, and general requirements will be explored. Modeling of real-world experiences will include a project bid and formal "mock" bid opening.

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

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

ETM-Engineering Tech:Mech Courses

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

EUH-European History Courses

EUH 1000 Western Perspectives I
3 sh (may not be repeated for credit)

Study of the West's geographical, cultural, political, and economic environments, with an emphasis on how the development of the Western World is part of a larger process of historical development. General Education: Social Science - Historical Perspectives. Meets Multicultural Requirement.

EUH 1001 Western Perspectives II
3 sh (may not be repeated for credit)

Study of the West's geographical, socio-cultural, political and scientific developments with an emphasis on how changes in these areas helped to shape civilization in the West, influenced the non-western world, and provided insight into the current conditions in the West and its relationship with the global community. General Education: Social Science - Historical Perspectives. Meets Multicultural Requirement.

EUH 3121 Fall of Rome, Birth of Europe
3 sh (may not be repeated for credit)

Analysis of the continuity and changes in the social, religious, and political life of what constituted Rome's empire following its decline. Study of the converging cultures that created Europe. Covers the period 400-1050.

EUH 3122 High Middle Ages
3 sh (may not be repeated for credit)

Covers the formation of Europe from 1050-1450, a period of dramatic change. Dispels the notion of the "Dark Ages" by analyzing social alignments, religious reform, the rise of universities, economic advancement, and the development of constitutional forms of government.

EUH 3200 Early Modern Europe
3 sh (may not be repeated for credit)

Developing nations emphasizing political, social, economic, cultural and intellectual aspects of Europe from 1500 through French Revolution and Napoleonic period.

EUH 3203 Modern Europe
3 sh (may not be repeated for credit)

European history since 1815, emphasizing contemporary problems, their historical development and interpretations. Credit may not be earned in both EUH 3203 and EUH 3205. Meets Multicultural Requirement.

EUH 3280 The Second World War
3 sh (may not be repeated for credit)

Examines the military, social, political, diplomatic, cultural, and economic aspects of the Allied and Axis powers on all fronts of World War II.

EUH 3411 Rome and the Mediterranean World
3 sh (may not be repeated for credit)

The development of Rome from a tiny town to its domination of the entire Mediterranean. Focuses on the structures of family, government, and military that allowed for this ascendancy. Includes Rome's cultural evolution, social relationships, wealth, and women's roles. Meets Multicultural Requirement.

EUH 3502 England Since 1485
3 sh (may not be repeated for credit)

Political, social, cultural and intellectual history of England in modern period stressing growth and development of Britain and Empire/Commonwealth in contemporary world.

EUH 3570 Russia to 1917
3 sh (may not be repeated for credit)

Beginning with the formation of Kievan Russia in the 10th century, traces the history of Russia until the October Revolution of 1917. Topics considered include the Mongol yoke, the expansion of Muscovy, imperial Russia, the rise of socialism, and the First World War.

EUH 3576 Soviet Union since 1917
3 sh (may not be repeated for credit)

Starting with the October Revolution of 1917, this course traces the history of the Soviet Union through its disintegration in the early 1990s. Topics considered include War Communism, Lenin's New Economic Policy, Stalinism, the Khrushchev and Brezhnev eras, Gorbachev's reforms, the collapse of the Soviet Union, and the emergence of successor states. Meets Multicultural Requirement.

EUH 4142 Renaissance and Reformation
3 sh (may not be repeated for credit)

A topical introduction to the major changes affecting European society from 1300 to 1650. Focuses on economic change, social stratification, cultural diffusion, political rivalries, and religious crossroads. Special coverage of consumerism, social welfare, education, toleration, and women and families.

EUH 4185 Vikings
3 sh (may not be repeated for credit)

The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archaeological evidence, this course examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandinavia as well as outlying areas of Russia, England and North America. Offered concurrently with EUH 5196; graduate students will have additional work.

EUH 4239 Europe's Expansion Overseas
3 sh (may not be repeated for credit)

Nature, causes and incentives of modern European imperialism. Emphasis on "New Imperialism," 1870-1914. Meets Multicultural Requirement.

EUH 4242 The First World War
3 sh (may not be repeated for credit)

Origins, evolution and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany's culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflict in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 5246; graduate students will be assigned additional work.

EUH 4245 Interwar Europe 1918-1939
3 sh (may not be repeated for credit)

Examines events in selected countries of Europe between the First and Second World Wars. Lectures and readings will consider many aspects of European life, with an emphasis on political, economic, and social issues. In each section, the focus will be on how states cultivated or failed at maintaining representative democracy.

EUH 4334 Czechs and Slovaks in the Modern Era
3 sh (may not be repeated for credit)

Located in the heart of Europe, the Czechs and Slovaks are an integral part of European history. Examines these two Slavic ethnic groups, beginning in the middle ages. It will consider the Bohemian kingdom, the Slovaks under the Hungarians, and the separate development of the Czechs and Slovaks in the Habsburg Monarchy. Most of the course will focus on the late nineteenth and twentieth centuries, when the two ethnic groups experienced interrupted state-building experiences. Through the history of the Czechs and Slovaks, students will achieve a better understanding of East-Central Europe and the Balkan states as these regions build market economics and pluralistic democratic political systems.

EUH 4453 The French Revolution
3 sh (may not be repeated for credit)

This course is designed to provide the student with an extensive understanding of the origins, evolution and consequences of the French Revolution and the rise of Napoleon Bonaparte.

EUH 4462 Germany since 1866
3 sh (may not be repeated for credit)

Beginning with unification of Germany between 1866 and 1871, this course will consider the history of imperial Germany, the Weimar Republic, the Third Reich, divided Germany after 1945, and Germany's reunification in 1989-90.

EUH 4465 Nazi Germany
3 sh (may not be repeated for credit)

Origins, evolutions and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Various military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 5467; graduate students will be assigned additional work.

EUH 4503 English Constitutional and Legal History
3 sh (may not be repeated for credit)

English constitutional history from Anglo-Saxon period to present; emphasis upon historical development of English governmental institutions (e.g. parliament, monarchy and legal system), interpretation of their interrelationship and their overall impact upon English nation. Much use of primary sources.

EUH 4511 Tudor and Stuart England
3 sh (may not be repeated for credit)

England at home and in international relations during the Tudor and Stuart dynasties (1485-1714). Strong emphasis on overall development and use of primary sources.

EUH 4521 Victorian England
3 sh (may not be repeated for credit)

England and British Empire in 19th century: emphasis upon economic, social, cultural and constitutional history.

EUH 4522 Modern Britain
3 sh (may not be repeated for credit)

Survey course in British history in the modern period. Overview of British history from the end of the Victorian period in 1901 to the present.

EUH 4535 England and America from the Colonial Period to Present
3 sh (may not be repeated for credit)

Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British empire. Offered concurrently with EUH 5539; graduate students will be assigned additional work.

EUH 4545 British Political Thought in the Early Modern Era
3 sh (may not be repeated for credit)

The development of political thought in the British Isles during the Tudor, Stuart, and Hanoverian periods, from the accession of Henry VIII to the death of George IV.

EUH 4563 Habsburg Monarchy 1526-1918
3 sh (may not be repeated for credit)

Examines the Habsburg Monarchy from its inception to its demise at the end of the First World War. Covers the rise of the monarchy, dynastic affairs of the Habsburgs, problems of political integration, the Monarchy as a bastion against the Islamic Turks, the age of the Counter Reformation and the Baroque, Metternich's diplomacy after the Napoleonic Wars, economic development, constitutional difficulties, nationality problems, Viennese culture around 1900, and the Monarchy's dissolution.

EUH 4614 Medieval Women
3 sh (may not be repeated for credit)

Survey of the experiences of women from the beginning of the Christian era through the Reformation. Focuses on Western Europe and pays particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and especially the Church in defining women's work, and social and family roles.

EUH 4640 European Agrarian and Social History
3 sh (may not be repeated for credit)

Focuses on the life of peasants and farmers throughout Europe from the seventeenth century until the present to see how agriculturalists survived on the land, interacted with other social classes, contended with industrialization and urbanization, immigrated to the New World, and participated in all sorts of political systems (democratic, dictatorial, fascist, and communist). The final portion will consider the farmer's role in the European Union. Special sections will deal with folk art and music, food, literature, and other aspects of rural culture.

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

EUH 5178 Medieval Women
3 sh (may not be repeated for credit)

Medieval Women, which focuses on the experiences of women from the beginning of the Christian era through the early Renaissance in Western Europe and the Mediterranean. This course will pay particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and the Church in defining women's work, social roles and opportunities, and family functions and responsibilities. Excerpts from primary sources written by women will be read and analyzed, and carefully explored according to History methodology, to understand more deeply their everyday challenges, struggles, and experiences. Offered concurrently with EUH 4614; graduate students will be assigned additional work.

EUH 5196 Vikings
3 sh (may not be repeated for credit)

The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archaeological evidence, this course examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandinavia as well as outlying areas of Russia, England and North America. Offered concurrently with EUH 4185; graduate students will be given additional work.

EUH 5246 The First World War
3 sh (may not be repeated for credit)

Origins, evolutions, and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany's culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflicts in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 4242; graduate students will be assigned additional work.

EUH 5287 The Second World War
3 sh (may not be repeated for credit)

The general objective of this course is to provide students with a deeper knowledge of the origins, evolution, and consequences of World War II.

EUH 5467 Nazi Germany
3 sh (may not be repeated for credit)

Origins, evolution, and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad paramilitary organizations within the Nazi Party. Offered concurrently with EUH 4465; graduate students will be assigned additional work.

EUH 5539 England and America from the Colonial Period to the Present
3 sh (may not be repeated for credit)

Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British Empire. Offered concurrently with EUH 4535; graduate students will be assigned additional work.

EUH 6338 Seminar: East Central Europe and the Balkans
3 sh (may not be repeated for credit)

Students will examine a specific aspect of a state, ethnic group, or region in East-Central Europe and the Balkans since 1815. Requires readings and reports, but the largest portion of the grade is based on an analytical research paper using primary and secondary sources.

EUH 6666 European Ideologies and Political Movements Since 1789
3 sh (may not be repeated for credit)

Examines the great political ideologies, movements, and theories that shaped not only European affairs but Western thought as a whole from the time of the French Revolution to the present.

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

EUH 6935 Seminar: Jerusalem in Antiquity and the Middle Ages
3 sh (may not be repeated for credit)

Jerusalem, the holy city of the three major monotheistic religions today, acquired that designation over millennia. This graduate seminar will explore the evolution of Jerusalem into the "Holy City" of the "Holy Land," from the perspective of each of the three religions. Primary sources from events in the history of ancient and medieval Jerusalem will be read and discussed. Historical evidence for co-existence of the three major religious groups in the microcosm of Jerusalem, their shared religious experiences, and violent conflicts will be investigated, as the land itself became terra sancta.

EVR-Environmental Studies Courses

EVR 2001 Introduction to Environmental Science
3 sh (may not be repeated for credit)

Study of interrelationships between human activity and the natural systems in our environment. Interdisciplinary approach to the study of natural processes and how they affect and are affected by human activity. Particular emphasis will be given to examination of the ways in which science offers solutions to the pressure human activity places on natural resources. General Education: Natural Sciences - Lecture.

EVR 3894 Environmental Writing
3 sh (may not be repeated for credit)
Prerequisite: ENC 1101 AND ENC 1102

Practice in the scientific methods, research approaches, reference styles, grantsmanship, and technical writing in the environmental sciences. Gordon Rule: Writing.

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

EVR 4023 Coastal and Marine Environments
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L

The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers.

EVR 4035 Environmental Law
3 sh (may not be repeated for credit)

Overview of current local, state and federal laws relating to the environment. Includes the legal history of current laws and case studies.

EVR 4037 Environmental Auditing
3 sh (may not be repeated for credit)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.

Overview of the evolution of environmental regulations and the adoption of environmental initiatives by the private business sector. Compliance audits, property assessments, and contingent liability audits will be conducted.

EVR 4050 Environmental Field Research
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: GEO 1200/L OR GLY 2100/L; Completion of 75 hours of college course work is required prior to taking this course.

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS / MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

EVR 4412 Environmental Aspects of Urban Growth
3 sh (may not be repeated for credit)

The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 5413; graduate students will be assigned additional work. Senior standing is required.

EVR 4823 Environmental Impact Assessment
3 sh (may not be repeated for credit)

Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 5824; graduate students will be assigned additional work.

EVR 4870 Urban Planning
3 sh (may not be repeated for credit)
Prerequisite: GEO 3372 OR EVR 4035

This course examines the interactions between physical and human landscapes that have produced a "third dimension" of geography: the legal landscape. We will analyze the role of law and land-use management (i.e., planning) techniques as major factors in determining how humans use resources and design our patterns of settlement. The course reviews the evolution of public control over land use in the U.S., from its roots in English common law and feudal land organization strategies, through the institution of urban planning and zoning, to contemporary and innovative land use controls available to today's urban planners and land-use managers. Whenever possible, current land-use issues from the Pensacola region are incorporated in class discussion. Students are exposed to a number of critical U.S. Supreme Court opinions on major land-use cases. The primary learning objective of the course is to provide students with a comprehensive "bread and butter" background in the history and techniques of urban planning. The subjectivity of many topics from the course is conducive to lively classroom discussion and (friendly) academic debate.

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

EVR 4941 Practicum in Environmental Studies
3 sh (may be repeated for up to 6.000 sh of credit)

Supervised field experience in business, government, non-profit, educational or other environmental organization. Offered concurrently with EVR 5332; graduate students will be assigned additional work. Permission is required.

EVR 4970 Senior Thesis in Environmental Science
3 sh (may not be repeated for credit)

Students will propose, design, and perform a research project in consultation with a UWF professor, who will serve as research supervisor. Research will be summarized and presented within the department and University. Permission is required.

EVR 5061 Environmental Field Research
3 sh (may be repeated for up to 6.000 sh of credit)

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS / MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 4050; graduate students will be assigned additional work.

EVR 5071 Coastal and Marine Environments
3 sh (may not be repeated for credit)

This course will investigate the world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Cross listed with EVR 4023; Graduate students will be assigned additional work.

EVR 5332 Practicum in Environmental Studies
3 sh (may be repeated for up to 6.000 sh of credit)

Supervised field experience in business, government, nonprofit, educational or other environmental organizations. Offered Summer term only. Offered concurrently with EVR 4941; graduate students will be assigned additional work. Permission is required.

EVR 5413 Environmental Aspects of Urban Growth
3 sh (may not be repeated for credit)

The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 4412; graduate students will be assigned additional work. Graduate status is required.

EVR 5435 Urban Planning
3 sh (may not be repeated for credit)

This course will be dual-listed with EVR 4870 (Urban Planning). The course reviews the evolution of public control and over land use as well as planning techniques in the U.S. Students are assigned several critical U.S. Supreme Court opinions on major land-use cases. The primary learning objective of the course is to provide students with a comprehensive "bread and butter" background in the history and techniques of urban planning. Graduate students will be assigned extra work and will be graded using a rubric that reflects the higher performance standards to which graduate students will be held.

EVR 5824 Environmental Impact Assessment
3 sh (may not be repeated for credit)

Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 4823; graduate students will be assigned additional work.

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

EVR 6930 Special Topics in Environmental Sciences
3 sh (may be repeated for up to 9.000 sh of credit)

Covers various advanced subjects in the environmental sciences, depending on the specialization of the instructor. Topics include environmental pedagogy, coastal meteorology, groundwater modeling, etc. Graduate-level standing is required.

EVS-Environmental Science Courses

EVS 4192C Environmental Soil Science
3 sh (may not be repeated for credit)

Examines the delicate nature of soils and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Offered concurrently with EVS5194C (Environmental Soil Science); graduate students will be assigned additional work. Permission is required.

EVS 5194C Environmental Soil Science
3 sh (may not be repeated for credit)

Examines the delicate nature of soil and the importance of soils for healthy ecosystems. Important ecosystem services provided by soils include food and fiber production, storage of organic carbon, and water and nutrient cycles. Reviews the basic principles of soil science and applies them to environmental issues. Includes the fundamental characteristics and processes of soils and their application to pollution, soil degradation, soil conservation, and remediation along with the physical and chemical properties of common soil pollutants such as trace metals, fertilizers, and some organic pollutants. Includes lectures by the instructor, presentations by graduate students, lab, and field activities. Students will be assigned additional work. Permission is required.

EVS 6196C Sampling and Analysis in Environmental Sciences
3 sh (may not be repeated for credit)

Theory and techniques of modern field and laboratory methods used for physical and chemical analysis of soil, sediment, and water samples. Procedures for exploratory data analysis and interpretation. Emphasis will be upon the collection of samples and their subsequent analysis. Written reports and oral presentations are required. Material and Supply Fee will be assessed.

EVS 6940 Internship
1-3 sh (may be repeated for up to 6.000 sh of credit)

Supervised and structured participation in environmental work experience in the private, government, or educational sectors. Permission is required.

EVS 6971 Thesis
1-6 sh (may be repeated for up to 12.000 sh of credit)

Design, research, and presentation of a master's thesis under the direction of the faculty committee. Graded on a Satisfactory/Unsatisfactory basis only.

EVT-Education: Voc/Technical Courses

EXP-Experimental Psychology Courses

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

EXP 4204 Sensation and Perception
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 AND PSY 3213 AND PSY 3215 AND STA 2023

Will survey the theory and literature related to the study of sensation and perception. Topics will include the neural mechanisms involved in coding sensory information, visual processing, audition, speech perception, cutaneous and chemical senses, development of perceptual processes, and impairment of vision and hearing.

EXP 4250 Human Factors Psychology
3 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 5256; graduate students will be assigned additional work.

EXP 4404 Psychology of Learning
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Principles and applications of learning theories, including conditioning and extinction, reinforcement and punishment, attention, memory, cognitive processes and physiological correlates of memory and cognition. It is preferred that the student has had several other psychology courses.

EXP 4507 Memory and Cognition
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 AND PSY 3213 AND PSY 3215 AND STA 2023

Will survey theory and literature related to the study of human memory and cognition. Topics will include attention, memory, imagery, language and bilingualism, problem solving, metamemory, expertise, and the development of language and cognitive processes.

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

EXP 5208 Advanced Sensation and Perception
3 sh (may not be repeated for credit)

Students must take EXP 4204 before enrolling in this course. Students will develop an in-depth understanding of how human beings use environmental energies to sense and perceive the world. Topics include the examination of neural systems involved in vision, audition, somatosensation, olfaction, and gustation. Physiological, psychophysical, and cognitive research methodologies used to understand and predict human perception will be discussed.

EXP 5256 Human Factors Psychology
3 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 4250; graduate students will be assigned additional work.

EXP 5575 Judgment and Decision Making
3 sh (may not be repeated for credit)

Seminar on current theories of human judgment and decision making. Normative models of decision making (based in statistics, philosophy, psychology, and economics) and descriptive models of decision making (based on research in cognitive psychology and social psychology) will be discussed. Naturalistic decision making and the role of expertise in judgment and decision making will also be discussed. Topics include judgment and decision making under a variety of conditions of uncertainty, including aviation, diagnosis and treatment decision in clinical psychology and medicine, forecasting, risk assessment, and jury decisions.

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

EXP 6085 Seminar in Applied Psychological Sciences
3 sh (may not be repeated for credit)
Prerequisite: PSY 6217

This course provides an opportunity for students in the Applied Experimental Psychology (AEP) MA track to explore a range of study domains and research methodologies across the science of psychology. It is intended as an advanced survey course in which faculty members and students from the School of Psychological and Behavioral Sciences present brief seminars in their areas of research and on topics related to student's professional development.

EXP 6506 Advanced Cognitive Psychology
3 sh (may not be repeated for credit)

Students must take PSY 3213 and PSY 3215 and EXP 4404; or an undergraduate degree in Psych before enrolling in this course. Students will develop a broad understanding of current research and theorizing in the various topics of memory and cognition, including attention, memory systems and processes, representation of knowledge, metamemory, language, problem solving, expertise, decision making, and creativity. Emphasis will be placed on current research and theory in human memory cognition. Students will develop an in-depth understanding of a selected topic in cognition and will write a literature review paper discussing current research and theory in this topic.

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

FAS-Fishery Agri Science Courses

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

FIL-Film Courses

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

FIL 4036 History of Motion Pictures I
3 sh (may not be repeated for credit)

Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 5038; graduate students will be assigned additional work. Credit may not be received in FIL 4036 and either FIL 4036C or FIL 4403C.

FIL 4037 History of Motion Pictures II
3 sh (may not be repeated for credit)

Significant development in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screenings. Offered concurrently with FIL 5039; graduate students will be assigned additional work. Credit may not be received in FIL 4037 and either FIL 4037C or FIL 4404C.

FIL 4102 Writing for Film-Television-Radio
3 sh (may not be repeated for credit)

Study and practice of writing for the mass media: screenplays, teleplays, radio and TV commercials, public affairs. Study of various script formats, story board and other presentational material. Credit may not be received in both FIL 4102 and MMC 4103. Gordon Rule: Writing.

FIL 4117 Advanced Film Writing
3 sh (may not be repeated for credit)
Prerequisite: FIL 4102

Study and practice of writing full-length feature film script.

FIL 4364 Documentary Film and Television
3 sh (may not be repeated for credit)

Historical and sociological study of the development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 5367; graduate students will be assigned additional work.

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

FIL 5038 History of Motion Pictures I
3 sh (may not be repeated for credit)

Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 4036; graduate students will be assigned additional work. Credit may not be received in FIL 5038 and either FIL 5038C or FIL 5407C.

FIL 5039 History of Motion Pictures II
3 sh (may not be repeated for credit)

Significant developments in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screening. Offered concurrently with FIL 4037; graduate students will be assigned additional work. Credit may not be received in FIL 5039 and either FIL 5039C or FIL 5408C.

FIL 5367 Documentary Film and Television
3 sh (may not be repeated for credit)

Historical and sociological study of development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 4364; graduate students will be assigned additional work. Credit may not be received in both FIL 5367 and FIL 5306.

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

FIN-Finance Courses

FIN 2104 Personal Financial Planning
3 sh (may not be repeated for credit)

Survey of personal financial planning topics. Includes: managing money and credit, personal loans, insurance, investments, home ownership, and taxes. General Education: Social Science - Socio-Political Perspectives.

FIN 3244 Financial Markets and Institutions
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023

Structure and functions of financial markets and institutions; interest rates, exchange rates, intermediation, and markets.

FIN 3403 Managerial Finance
3 sh (may not be repeated for credit)
Prerequisite: ACG 2071 AND ECO 2013 AND ECO 2023 AND STA 2023

Analytical concepts available to financial manager in acquisition and effective utilization of funds in relation to other management functions.

FIN 3461 Financial Statement Analysis
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Introduction to the study of financial statements, including interpreting accounting data and analyzing financial statements. Cross Listed with ACG 3180. Prerequisites: FIN 3403 minimum grade of C.

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

FIN 3949 Cooperative Education
1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

FIN 4145 Portfolio Planning for Individual Investors
3 sh (may not be repeated for credit)

Portfolio planning for individual investors with emphasis on preparing an individual portfolio containing stocks, bonds, money market securities, and real estate.

FIN 4324 Commercial Bank Management
3 sh (may not be repeated for credit)
Prerequisite: FIN 3244 AND FIN 3403

Measurement and management of the risks and returns assumed by commercial banks and near banks. Current issues in financial intermediation. Includes theory and practice.

FIN 4414 Financial Theory and Practice
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Designed as an extension of FIN 3403. Topics such as risk and return, stock and bond valuation, time value of money, and capital budgeting, will be covered in greater depth. New topics will include lease financing, hybrid financing, international finance, et al.

FIN 4424 Problems in Corporate Finance
3 sh (may not be repeated for credit)
Prerequisite: (ACG 3101 OR ACG 3172) AND (FIN 4414)

Cases and readings in corporation finance in areas of capital budgeting, working capital management, capital structure, cost of capital, mergers, reorganizations, and international finance.

FIN 4440 Controllership
3 sh (may not be repeated for credit)

Introduction to the controllership function within an economic entity. Emphasis is placed upon budgeting and working capital management and control.

FIN 4504 Investments
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Introduction to an extensive development of theoretical concepts related to areas of securities analysis and portfolio management.

FIN 4514 Security Analysis and Portfolio Management
3 sh (may not be repeated for credit)
Prerequisite: FIN 3244 AND FIN 4504

Portfolio construction, management and measurement bridging modern theory and practice.

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

FIN 4941 Financial Services Internship
1-6 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Supervised field practicum in financial services-related position. May include activities in any one or more of the functional areas in financial services (commercial banking, mutual funds and investments, insurance, real estate and personal financial planning). Graded on a satisfactory / unsatisfactory basis only. Permission is required.

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

FIN 6406 Financial Management
3 sh (may not be repeated for credit)

Advanced treatment of investment and financing decisions of firms, emphasis on current theory and practice. Course contains a portfolio project. Permission is required.

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

FLE-Foreign Language Education Courses

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

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

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

FRE-French Language Courses

FRE 1120C French I

4 sh (may not be repeated for credit)

For students with no knowledge of French or with less than two years of high school French. The purpose is to lay a foundation for speaking, writing and reading the language. One hour of lab work is required per week.

FRE 1121C French II

4 sh (may not be repeated for credit)

Continuation of FRE 1120C. One hour of lab work per week is required.

FRE 1905 Directed Study

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

FRE 2200 Intermediate Reading and Translation

3 sh (may not be repeated for credit)

For students who have previous experience in French, but are not yet prepared for advanced work in the language.

FRE 2210 Intermediate Composition & Conversation

3 sh (may not be repeated for credit)

Practical oral communication course for students on an intermediate level. Prepares students for FRE 2200.

FRE 2905 Directed Study

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

FRE 3905 Directed Study

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

FRE 4905 Directed Study

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

FRE 4955 Supervised Foreign Language Field Experience Abroad

1-3 sh (may be repeated indefinitely for credit)

Supervised and individualized foreign language experience tailored to each student's individual proficiency needs in language and culture. Permission is required. Meets Multicultural Requirement.

FRE-French Literature Writings Courses

FRW 3905 Directed Study

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

FRW 4905 Directed Study

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

GEA-Geography: Regional Areas Courses

GEA 2000 Nations and Regions of the World

3 sh (may not be repeated for credit)

Regional treatment of the physical & cultural environments of the world. Interdependence of peoples and nations of the world will be stressed within the context of environmental attributes and shortcomings and human responses to environmental opportunities or limitations. General Education: Social Science - Socio-Political Perspectives. Meets Multicultural Requirement.

GEA 4405 Geography of Latin America

3 sh (may not be repeated for credit)

A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Credit cannot be received for both GEA 4405 and GEA 4400. Meets Multicultural Requirement.

GEA 4635 Geography of the Middle East

3 sh (may not be repeated for credit)

A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 5637; graduate students will be assigned additional work.

GEA 4730 Geography of Japan

3 sh (may not be repeated for credit)

A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America

3 sh (may not be repeated for credit)

A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEA 5637 Geography of the Middle East

3 sh (may not be repeated for credit)

A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 4635; graduate students will be assigned additional work.

GEA 5731 Geography of Japan

3 sh (may not be repeated for credit)

A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, cultures, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 4730; graduate students will be assigned additional work.

GEB-General Business Courses

GEB 1011 Introduction to Business

3 sh (may not be repeated for credit)

Provides in-depth coverage of all aspects of business by presenting an integrated and balanced review of the external and internal forces that comprise business and economic systems. Intended primarily for freshmen/sophomores to assist the student's selection of a business career or business major. General Education: Social Science - Socio-Political Perspectives.

GEB 3004 Career Strategies
2 sh (may not be repeated for credit)

Focuses on students' transition from college to the next step out of college. The mechanics of the job search and preparation for life after college will be discussed. Students will learn proper resume and professional correspondence development, interviewing scenarios, practice the fine art of networking, and develop a job search plan. Other topics such as business etiquette and dress, alternative career paths, and personal financial management/budgets will be discussed. Graded on a satisfactory / unsatisfactory basis only.

GEB 3032 Business Foundations for Non-Business Majors
3 sh (may not be repeated for credit)

Provides non-business students a foundation in the functional areas of management, marketing, finance, accounting and economics. Designed to provide students with a knowledge base that will give access to a broad range of upper level business courses. Available only to non-business majors.

GEB 3213 Writing for Business: Theory and Practice
3 sh (may not be repeated for credit)

Prerequisite: ENC 1101 AND ENC 1102

Augments the basics of business writing while reviewing the various kinds of written business correspondence. Students are expected to integrate ethical decision making skills, word processing skills, grammar and writing skills, and analytical thinking skills into the content. Students must be able to determine solutions to problem based exercises. Team assignments and oral presentations may relate to student's discipline. Gordon Rule: Writing.

GEB 3453 Business Ethics and Stakeholder Management
3 sh (may not be repeated for credit)

Prerequisite: ACG 2071 AND ECO 2023 AND MAN 3025

Managers are confronted with increasingly complex environments and face challenges trying to balance economic, legal, and ethical responsibilities vis-a-vis the stakeholder groups with which they interact. This course investigates the spectrum of business ethics and social responsibility issues that managers face in today's organizations. Course will be grounded in contemporary events and addresses these challenges from an individual and a managerial perspective.

GEB 4361 International Business
3 sh (may not be repeated for credit)

Prerequisite: FIN 3403 AND MAN 3025 AND MAR 3023

Introduces students to the complexities of conducting business on a global scale. Businesses typically develop in a domestic setting and then expand into international commerce. Focuses on the necessary adaptations of business practices for success in global markets. Offered concurrently with GEB 5365; graduate students will be assigned additional work. Meets Multicultural Requirement.

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

GEB 4942 Internship Pensacola: Professional Development Seminar
3 sh (may not be repeated for credit)

Taken in conjunction with an internship. Designed to enhance the internship experience by presenting topics to help students succeed in an internship and career. Seminar format includes discussion of readings, oral presentations, group discussions, role-playing, and in-class reflections. Guest speakers will present in their areas of expertise. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

GEB 5509 Interpretation and Application of Generally Accepted Accounting Principles for Not-for-Profit Organi
1.5 sh (may not be repeated for credit)

Prerequisite: GEB 5872

Explores the application of generally accepted accounting principles (GAAP) to Not-for-Profit Organizations (NPO). Analysis of actual NPO financial statements is covered. Students will be exposed to IRS Form 990 and required to compare and contrast the Form presented in the textbook with the latest version of Form 990 released in 2009. Permission is required.

GEB 5870 MBA Foundations: e-Business Systems
1.5 sh (may be repeated for up to 3.000 sh of credit)

A course in the Accelerated MBA Foundations Series in which students will gain an understanding of the principles of e-Business systems planning, development, and implementation. The overall objective is to provide a common foundation composed of the fundamental concepts required for the use and application of systems and technologies found in the e-Business environment. Permission is required.

GEB 5871 MBA Foundations: Managerial Economics
1.5 sh (may be repeated for up to 3.000 sh of credit)

A course in the Accelerated MBA Foundations Series in which students will gain an understanding of basic economics. Special emphasis will be placed on the determinants of supply and demand and the desirable properties of a competitive equilibrium; followed by the undesirable properties of markets with a monopoly and with externalities. Permission is required.

GEB 5872 MBA Foundations: Financial Management I
1.5 sh (may be repeated for up to 3.000 sh of credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to the accounting process of analyzing, measuring, and reporting business activity. Explores the precise language, assumptions, concepts, principles, and logic patterns inherent in the analysis and measurement of business activity. Describes the form and content of major financial statements. Briefly introduces the recording and reporting process used by accounting systems and examines basic financial reporting issues.

GEB 5873 MBA Foundations: Financial Management II
1.5 sh (may be repeated for up to 3.000 sh of credit)

A course in the Accelerated MBA Foundations Series in which students who have an understanding of financial accounting are introduced to the business relationships that exist between the generation and use of financial information. Includes the role of accounting in measuring financial performance, an overview of financial management, keys to understanding financial information via financial ratio analysis, effective use of financial analysis, and a brief introduction to the time value of money.

GEB 5874 MBA Foundations: Financial Management III
1.5 sh (may be repeated for up to 3.000 sh of credit)

A course in the Accelerated MBA Foundations Series in which students with an understanding of financial analysis are introduced to financial valuation and decision making tools that are used by managers and owner/managers of business organizations. The three foundation concepts covered are the Time Value of Money, the Risk-Return Relationship, and the use of Incremental After-Tax Cash Flows. Provides a theoretical understanding and a practical application in financial decision-making. Permission is required.

GEB 5875 MBA Foundations: Management Skills and Applications
1.5 sh (may be repeated for up to 3.000 sh of credit)

Covers the historical evolution of management, organizational design, motivation, team building, leadership, change management, culture, strategic planning, and critical implementation/control elements critical to successful management and strategy. Social responsibility, ethics, globalization, and futures are also stressed.

GEB 5876 MBA Foundations: Marketing Management
1.5 sh (may be repeated for up to 3.000 sh of credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to foundational concepts of marketing management processes. Provides students with intensive exposure to the basic philosophy, concepts, and knowledge common to effective marketing management.

GEB 5878 Business Process Integration
1.5 sh (may not be repeated for credit)

An introductory MBA core course in which students must combine the practical skills and discipline of specific concepts learned in previous foundation courses in order to solve a complex integrated real-life business problem. Serves as an initial integrating experience from which to launch students into the core MBA study. Permission is required.

GEB 5879 MBA Foundations: Business Analytics
1.5 sh (may not be repeated for credit)

Business requires the application of a variety of analytical tools. Integrates several key analytical tools into a specific business decision framework that focuses on the interrelationship of these tools as they are used in business decisions. After an on-line review/introduction of basic algebraic and financial equations, combines the concepts of time value of money, descriptive statistics, production functions, correlation, simple regression and specifically applied calculus into a decision-making framework. This framework will serve as a foundation for analysis in subsequent courses and create a model for considering risk adjusted financial consequences of future business decisions. Permission is required.

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

GEB 5930 Information Resources and Industry Analysis
1.5 sh (may not be repeated for credit)

Provides the background for beginning the MBA Portfolio. Gives introduction to information resources available to perform business problem analysis. Students learn to prepare a thorough analysis of their Portfolio industry.

GEB 6118 New Ventures
3 sh (may not be repeated for credit)

Students learn how to start a new business. They develop a list of potential opportunities, evaluate the opportunities and learn how to seek seed capital (through the elevator speech and the business plan) with an eye toward the profitability horizon.

GEB 6895 Business and Public Policy
3 sh (may not be repeated for credit)

Develops expertise in the use of a set of tools to analyze the effect of economic, regulatory and tax policies (external environment) on the business environment and the conduct of business in domestic and international markets. Ethical implications of business response to these environments are also considered.

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

GEO-Geography: Systematic Courses

GEO 1200 Physical Geography
3 sh (may not be repeated for credit)

Relationship between natural environment and man. Weather, climate, soils, biogeography and land forms. Physical earth treated so that the student gains appreciation of man's place and activities within his/her environment. Material and supply fee will be assessed for corresponding lab. General Education: Natural Sciences - Combined Lecture and Laboratory.

GEO 1200L Physical Geography Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 1200*
Co-requisite: GEO 1200

Corresponding lab for Physical Geography. General Education: Natural Sciences - Laboratory.

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

GEO 3210 Geomorphology
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L

Description of landforms and landscapes on the Earth's surface, along with a systematic analysis of the geomorphic processes that produce them. Emphasis is placed on the climatic and geologic controls on landscape evolution. Material and supply fee will be assessed for corresponding lab.

GEO 3210L Geomorphology Lab
1 sh (may not be repeated for credit)
Prerequisite: GEO 3210*
Co-requisite: GEO 3210

Corresponding lab for Geomorphology.

GEO 3250 Weather and Climate
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L
Co-requisite: GEO 3250L

Nature of individual weather elements, their measurements, and analysis over time and space. Analysis of global climate emphasizing control factors, resulting areal patterns and climatic classifications. Emphasis upon North American weather and climate patterns, micro climate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

GEO 3250L Weather and Climate Lab

1 sh (may not be repeated for credit)

Prerequisite: GEO 3250*

Co-requisite: GEO 3250

Corresponding Lab for Weather and Climate.

GEO 3260 Geography of Soils

3 sh (may not be repeated for credit)

Prerequisite: (GEO 1200/L OR GLY 2010/L) AND (CHM 2045/L)

Co-requisite: GEO 3260L

Nature, properties and distribution of soils and their relationship to the influence of vegetation, climate, landforms, and human activity. Understanding how soils form and how and why they vary horizontally across the landscape and vertically with depth. Emphasis upon North American patterns. Occasional field trips. It is recommended that GEO 3260L be taken concurrently.

GEO 3260L Geography of Soils Laboratory

1 sh (may not be repeated for credit)

Co-requisite: GEO 3260

Deals with the nature, properties and distribution of soils and their relationship to the influence of vegetation, climate, landforms, and human activity. Intended to be fundamental soil science lab that provides hands-on experience. Field trips required. Material and supply fee will be assessed.

GEO 3372 Conservation of Natural Resources

3 sh (may not be repeated for credit)

Nature and extent of mineral, soil, water, forest and wildlife resources and their conservation, with particular emphasis on the United States against a general background of world resources. Conservation philosophies, practices and their geographic bases. Occasional field trips may be arranged.

GEO 3421 Cultural Geography

3 sh (may not be repeated for credit)

Sociocultural distributions with emphases on social regions, spatial behavior and cultural landscapes. Topics include population, spatial diffusion and processes, race, language, religion, political organization, methods of livelihood, settlement patterns, and the regional distribution of the elements over the earth. Meets Multicultural Requirement.

GEO 3471 Geography of World Affairs

3 sh (may not be repeated for credit)

Geographic study of world events; environmental influences on events; impact of events on environment; ramifications of events on social, economic, political, physical and psychological worlds. Credit cannot be received for both GEO 3471 and GEO 3470. Meets Multicultural Requirement.

GEO 3502 Economic Geography

3 sh (may not be repeated for credit)

Analysis of patterns, linkages and flows attendant to the production, consumption and distribution of goods and services. Production and consumption are correlated with markets which are analyzed in terms of population needs, desires and spending power.

GEO 3905 Directed Study

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

GEO 4164 Geostatistics

3 sh (may not be repeated for credit)

Prerequisite: GIS 4043/L AND STA 2023

Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 5165; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 4221 Coastal Morphology and Processes

3 sh (may not be repeated for credit)

Prerequisite: GEO 1200 OR GLY 2010/L

Co-requisite: GEO 4221L

An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies and environmental concerns. Offered concurrently with GEO 5225; graduate students will be assigned additional work.

GEO 4221L Coastal Morphology and Processes Laboratory

1 sh (may not be repeated for credit)

Co-requisite: GEO 4221

Laboratory correlating with GEO 4221. Offered concurrently with GEO 5225L; graduate students will be assigned additional work. Material and supply fees will be assessed.

GEO 4251 Advanced Climatology and Climate Change

3 sh (may not be repeated for credit)

Prerequisite: GEO 3250

A survey of Earth's climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO 5256 Advanced Climatology and Climate Change; graduate students will be assigned additional work.

GEO 4280 Basic Hydrology

3 sh (may not be repeated for credit)

Prerequisite: GEO 1200/L OR GLY 2010/L

Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. Material and supply fee will be assessed for corresponding lab.

GEO 4280L Basic Hydrology Lab

1 sh (may not be repeated for credit)

Prerequisite: GEO 4280*

Co-requisite: GEO 4280

Corresponding Lab for Basic Hydrology.

GEO 4332 Senior Seminar

1 sh (may be repeated for up to 2.000 sh of credit)

Seminar in which timely topics pertaining to the environment are discussed and researched. Emphasis is upon professional presentation of research material. Upper level standing is required.

GEO 4333 Seminar in Environmental Issues
3 sh (may not be repeated for credit)

Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 5930; graduate students will be assigned additional work.

GEO 4376 Landscape Ecology
3 sh (may not be repeated for credit)

Prerequisite: BOT 2010 OR GEO 1200/L OR GLY 2010/L
Co-requisite: GEO 4376L

A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 5378; graduate students will be assigned additional work.

GEO 4376L Landscape Ecology Lab
1 sh (may not be repeated for credit)

Co-requisite: GEO 4376

Laboratory section offered with existing Landscape Biogeography course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO5378L. Graduate students will be assigned additional work.

GEO 4801 Global Agricultural Sustainability
3 sh (may not be repeated for credit)

The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management.

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

GEO 5165 Geostatistics
3 sh (may not be repeated for credit)

Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 4164; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 5225 Coastal Morphology and Processes
3 sh (may not be repeated for credit)
Co-requisite: GEO 5225L

An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies, and environmental concerns. Offered concurrently with GEO 4221; graduate will be assigned additional work.

GEO 5225L Coastal Morphology and Processes Laboratory
1 sh (may not be repeated for credit)

Co-requisite: GEO 5225

Laboratory correlating with GEO 5225. Offered concurrently with GEO 4221L graduate students will be assigned additional work. Material and supply fee will be assessed.

GEO 5256 Advanced Climatology and Climate Change
3 sh (may not be repeated for credit)

A survey of Earth's climate during the past several millennia. Explores current scientific literature on global climate as well as paleoclimatic research. Changes in Global climate prior to modern record-keeping (pre-1895) are compared and contrasted with observed contemporary global climate change. Offered concurrently with GEO4XX3 (Advance Climatology); graduate students will be assigned additional work.

GEO 5289 Basic Hydrology
3 sh (may not be repeated for credit)

Co-requisite: GEO 5289L

This course focuses on the hydrologic cycle, with emphasis on surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Material and supply fee will be assessed for corresponding lab. Cross listed with GEO 4280; Graduate Students will be assigned additional work. Co-requisites: GEO 5289L.

GEO 5289L Basic Hydrology Lab
1 sh (may not be repeated for credit)

Co-requisite: GEO 5289

Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. This course is built on basic concepts established in introductory Earth Science courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Material and supply fee will be assessed for corresponding lab.

GEO 5378 Landscape Ecology
3 sh (may not be repeated for credit)

Co-requisite: GEO 5378L

A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 4376; graduate students will be assigned additional work.

GEO 5378L Landscape Ecology Lab
1 sh (may not be repeated for credit)

Co-requisite: GEO 5378

Laboratory section offered with existing Landscape Ecology course. Lab investigates spatial patterns and processes in woody species occurrence. Analyzes physical landscape characteristics and disturbance processes leading to woody species presence and patterns. Offered concurrently with GEO4376L (Landscape Ecology Lab); graduate students will be assigned additional work.

GEO 5805 Global Agricultural Sustainability
3 sh (may not be repeated for credit)

The world is experiencing increased pressures to increase agriculture production for food and biofuel. Taking a global perspective, this course addresses the major prospects, problems, and practicalities of creating sustainable agriculture systems. This course examines the ecological foundations of sustainable agriculture and takes a whole-systems approach to agricultural management. Graduate students will be assigned additional work. This course will be offered concurrently with GEO 4801.

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

GEO 5930 Seminar in Environmental Issues
3 sh (may not be repeated for credit)

Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 4333; graduate students will be assigned additional work.

GEO 6118 Research Design
3 sh (may not be repeated for credit)

Introduces non-thesis-track Master's students to the essentials of designing and executing a research project in the environmental sciences using the scientific method. Students will design and complete a research project.

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

GEO 6936 Graduate Seminar
3 sh (may not be repeated for credit)

An overview of the disciplinary evolution of the geosciences, the prevailing paradigms and methodologies, and current and future directions in the field. The scientific method, grant proposals, and research publications will be examined in detail.

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

GER-German Courses

GER 1120C German I
4 sh (may not be repeated for credit)

For students with no knowledge of German or with fewer than two years of high school German. Lays a foundation for speaking, writing, and reading the language. One hour of lab work per week is required.

GER 1121C German II
4 sh (may not be repeated for credit)
Prerequisite: GER 1120C

Continuation of GER 1120C. One hour of lab work per week is required.

GER 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

GER 2240 German Intermediate Composition and Conversation
3 sh (may not be repeated for credit)

This is an intermediate foreign language course intended for students who have completed German I and II. Students will expand and perfect their ability to speak, read, write and understand German and learn more about German culture.

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

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

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

GEY-Gerontology Courses

GEY 4001 Gerontology
3 sh (may not be repeated for credit)

Course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on knowledge learned from the course. Offered concurrently with GEY 5005; graduate students will be assigned additional work. Permission is required.

GIS-Geographic Inform Syst Courses

GIS 3015 Cartographic Skills
3 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L OR GLY 2010/L

Designed to teach students the basics of maps, including map projections, datums, grid systems, map interpretations, elements of map design, and basic field mapping. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 3100 and GIS 3015.

GIS 3015L Cartographic Skills Lab
1 sh (may not be repeated for credit)
Prerequisite: GIS 3015*
Co-requisite: GIS 3015

Corresponding lab for Cartographic Skills.

GIS 4035 Photo Interpretation and Remote Sensing
3 sh (may not be repeated for credit)
Prerequisite: GIS 3015/L

Applied skills emphasizing the fundamentals of aerial photograph interpretation and basics of multiband spectral reconnaissance of the environment-multispectral photography, infrared, microwave scanning and multifrequency radar systems. Application includes their uses in the study of cultural and biophysical phenomena. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 4131 and GIS 4035.

GIS 4035L Photo Interpretation and Remote Sensing Lab
1 sh (may not be repeated for credit)
Prerequisite: GIS 4035*
Co-requisite: GIS 4035

Corresponding lab for Photo Interpretation and Remote Sensing.

GIS 4036 Applications in Remote Sensing

3 sh (may not be repeated for credit)

Prerequisite: GIS 4035/L

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 5039; graduate students will be assigned additional work. Material and supply fee will be assessed. Permission is required.

GIS 4043 Geographic Information Systems

3 sh (may not be repeated for credit)

Co-requisite: GIS 4043L

Spatial database will be queried to solve spatial problems, analyze related attributes, and produce computerized cartographic output. Examines spatial data structures, data acquisition, processing, management, manipulation, and analysis for interdisciplinary applications and research. Permission is required. Material and Supply Fee will be assessed for corresponding lab. Credit cannot be received for both GIS 4043 and GEO 4151.

GIS 4043L GIS Laboratory

1 sh (may not be repeated for credit)

Co-requisite: GIS 4043

Lab correlating with GIS 4043. Intended to be a fundamental lab that provides hands-on experience operating a GIS. Material and Supply fee will be assessed.

GIS 4048 Applications in Geographic Information Systems

3 sh (may not be repeated for credit)

Prerequisite: GIS 4043/L

The application of GIS methods and techniques in solving practical problems. A generic process for applying GIS techniques in problem solving is introduced, and several case studies of GIS applications in environmental and social domains will be analyzed. Offered concurrently with GIS 5100; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4048 and GEO 4152.

GIS 4071 Methods and Techniques in Environmental Resource Management and Planning

3 sh (may not be repeated for credit)

Prerequisite: GIS 4043/L

Tools, methods, and techniques employed in the study of environmental impact and resource management. Research fundamentals studied and applied to environmental problems such as land use, environmental impact studies, Florida's development of regional impact, resource evaluation, and other topics. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4071 and GEO 4373.

GIS 4102 GIS Programming

3 sh (may not be repeated for credit)

Prerequisite: GIS 4043/L

Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 5103; graduate students will be assigned additional work. Permission required. Credit may not be received in both GIS 4102 and GIS 5103.

GIS 4260 GIS Applications for Archaeology

3 sh (may not be repeated for credit)

Prerequisite: GIS 4043/L

This course will serve as an introduction to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in online GIS Certificate Program.

GIS 4905 Directed Study

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

GIS 4930 Special Topics in Geographic Information Science

3 sh (may be repeated for up to 6.000 sh of credit)

Prerequisite: GIS 4043/L

Focuses on various topics and cutting-edge techniques in Geographic Information Science (GIS), both in theory and in practice. Offered concurrently with GIS 5935; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed.

GIS 4938 Special Topics in GIS for Archaeology

3 sh (may not be repeated for credit)

Prerequisite: GIS 4260

This course will serve as an advanced approach to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Offered concurrently with GIS 5938; graduate students will be assigned additional work.

GIS 4944 GIS Internship

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

Prerequisite: GIS 4043/L

Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational or other environmental organizations. Offered concurrently with GIS 5945; graduate students will be assigned additional work. Permission is required.

GIS 5027 Aerial Photography and Remote Sensing
3 sh (may not be repeated for credit)

This course emphasizes the fundamentals of aerial photography and digital processing of satellite images. In the first part of the course, characteristics of aerial photographs, such as scale and distortion, are discussed. Criteria used in the interpretation of aerial photographs are introduced. In the second part of the course the physical and technical principles of digital satellite remote sensing are explained. This course is built on basic concepts established in introductory Earth Science and Cartography courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Graduate students will be assigned additional work.

GIS 5027L Aerial Photography and Remote Sensing Lab
1 sh (may not be repeated for credit)

Prerequisite: GIS 5027*
Co-requisite: GIS 5027

Concepts learned in associated lecture will be applied in this lab. Interpretation of physical and human features will be carried out on real-world aerial photographs. Digital satellite images will be processed, analyzed and interpreted in lab using digital image processing software. The software will be introduced in lecture and lab. This course is built on basic concepts established in introductory Earth Science and Cartography courses, so graduate students should be familiar with those concepts. Please consult with the course instructor for any questions regarding these prerequisite concepts. Graduate students will be assigned additional work.

GIS 5039 Applications in Remote Sensing
3 sh (may not be repeated for credit)

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 4036; graduate students will be assigned additional work. Material and supply fee will be assessed. Permission is required. Credit cannot be received for both GIS 5039 and GEO 5139.

GIS 5050 Geographic Information Systems
3 sh (may not be repeated for credit)
Co-requisite: GIS 5050L

This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. The applications of GIS are presented. Future issues for GIS and state-of-the-art technology are also discussed. Cross listed with GIS 4043; Graduate students will be assigned additional work.

GIS 5050L Geographic Information Systems Lab
1 sh (may not be repeated for credit)

Prerequisite: GIS 5050*
Co-requisite: GIS 5050

This course teaches fundamental concepts and techniques of Geographic Information Systems (GIS). It covers basic concepts such as map projections, spatial data models, relational databases, spatial analysis, and visualization of spatially distributed data and phenomena. The applications of GIS are presented. Future issues for GIS and state-of-the-art technology are also discussed. Cross listed with GIS 4043L; Graduate students will be assigned additional work.

GIS 5100 Applications in Geographic Information Systems
3 sh (may not be repeated for credit)

The application of GIS methods and techniques in solving practical problems. A generic process for applying GIS techniques in problem solving is introduced, and several case studies of GIS applications in environmental and social domains will be analyzed. Offered concurrently with GIS 4048; graduate students will be assigned additional work. Material and supply fee will be assessed. Credit cannot be received for both GIS 5100 and GEO 5157.

GIS 5103 GIS Programming
3 sh (may not be repeated for credit)

Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 4102; graduate students will be assigned additional work. Permission is required. Credit may not be received in both GIS 5103 and GIS 4102.

GIS 5265 GIS Applications for Archaeology
3 sh (may not be repeated for credit)

This course will serve as an introduction to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Restricted to students in the online GIS Certificate program.

GIS 5935 Special Topics in Geographic Science
3 sh (may be repeated for up to 6.000 sh of credit)

Focuses on various topics and cutting-edge techniques in Geographic Information Science (GIS), both in theory and in practice. Offered concurrently with GIS 4930; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed.

GIS 5938 Special Topics in GIS for Archaeology

3 sh (may not be repeated for credit)

Prerequisite: GIS 5265

This course will serve as an advanced approach to archaeological applications of GIS technology and data management and analysis. Students will learn how to compile, transform, analyze and present sources of archaeological and historical data, and will utilize this information in GIS for cultural resources interpretation, management and predictive modeling. Additionally, this course is designed to reinforce best practices for collecting spatially-related data on anthropological archaeology projects. Offered concurrently with GIS 4938; graduate students will be assigned additional work.

GIS 5945 GIS Internship

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

Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational, or other environmental organizations. Offered concurrently with GIS 4944; graduate students will be assigned additional work. Permission is required.

GIS 6005 Communicating GIS

3 sh (may not be repeated for credit)

This course begins with the basic theory of graphic design, cartography, and map production and distribution. Students then learn to communicate specific types of spatial and analytical information through maps, written and oral explanations, graphs, tables, charts, and interactive web mapping applications. Course includes lecture, hands-on exercises, written reports, and a final presentation. Restricted to students majoring in MSA Geographic Information Systems specialization.

GIS 6110 Advanced Topics in Geographic Information Science

3 sh (may not be repeated for credit)

Relational Database Management Systems (RDBMS) and their function within Geographic Information Systems (GIS). Students will integrate RDBMS, Desktop GIS and the World Wide Web to produce an interactive spatial database served over the Internet. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 6110 and GEO 6159.

GIS 6555 Geographic Information Systems Management

3 sh (may not be repeated for credit)

Prerequisite: GIS 5935

This course provides practical information on the development, implementation, and operation of GIS programs and projects intended for both seasoned and aspiring GIS managers. The course focuses on planning and implementing GIS solutions for government agencies and contractors. The course combines lecture, discussion, and group exercises. An end of term project involves writing in response to real or hypothetical solicitations for a project that targets GIS tool development, implementation, and/or training to support management activities in local, regional, state, national, or international contexts. Offered Fall and Spring semesters. Restricted to students in MSA Geographic Information Systems specialization program.

GIS 6905 Directed Study

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

GIS 6955 GIS Capstone

3 sh (may be repeated for up to 6.000 sh of credit)

Prerequisite: GIS 6005 AND GIS 6110 AND GIS 6555

A final capstone experience for students who are nearing completion of their MSA (Geographic Information Systems specialization) program. In the first semester, students work with instructor guidance to identify and research their project client and topic, and write a background paper outlining previous research and related studies. In the second semester, students work in collaboration with local partners, faculty, or the student's current employer to develop a real-world GIS application. Working independently, students: communicate with project partners to identify project goals; acquire and prepare spatial data for GIS data analysis; communicate with project partners to assess progress; manage spatial data; and produce necessary outputs for presentation as part of a final report. This final project should affirm the student's ability to think critically and creatively, to solve practical problems, to make reasoned and ethical decisions, and to communicate effectively. The capstone course serves as documentation of the student's personal mastery of professional competencies. It is designed to be an integrative experience for MSA students in the GIS specialization. Students will submit a Capstone Course Approval Form and once approved, be permitted to register for this course. Course Restricted to students in the MSA GIS Program.

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

GLY-Geology Courses**GLY 2010 Physical Geology**

3 sh (may not be repeated for credit)

Material, structures, surface features of the earth and processes that have produced them. General Education: Natural Sciences - Lecture.

GLY 2010L Physical Geology Laboratory

1 sh (may not be repeated for credit)

Lab correlating with GLY 2010. Material and supply fee will be assessed. General Education: Natural Sciences - Laboratory.

GLY 3031C Environmental Geology

4 sh (may not be repeated for credit)

Prerequisite: GEO 1200/L OR GLY 2010/L

Discussion oriented study of the application of geology to the spectrum of interactions between people and their physical environment. Earth materials and processes are presented in reference to hazards and concerns that are created naturally and/or by human activities. Role of humans as geologic agents, resource conservation, ecosystem management, and the problems that result from upsetting the established equilibria of geologic systems are illustrated using case studies with emphasis on scenarios in Florida. Possible field trips. Material and Supply Fee will be assessed. Credit may not be earned in both GLY 3880C and GLY 3031C.

GLY 3905 Directed Study

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

GLY 4240 Geochemistry

3 sh (may not be repeated for credit)

Prerequisite: (GEO 1200/L OR GLY 2010/L) AND (CHM 2045/L)

Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 5246; graduate students will be assigned additional work.

GLY 4244 Biogeochemistry

3 sh (may not be repeated for credit)

Prerequisite: (GEO 1200/L OR GLY 2010/L) AND (CHM 2045/L) AND (BOT 2010/L OR BSC 1005/L OR ZOO 1010/L)

An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 5266; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 4905 Directed Study

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

GLY 5246 Geochemistry

3 sh (may not be repeated for credit)

Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 4240; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5266 Biogeochemistry

3 sh (may not be repeated for credit)

An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 4244; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GRE-Class Greek (Lang Study) Courses**GRE 3905 Directed Study**

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

HFT-Hospitality Management Courses**HFT 2000 Introduction to the Hospitality Industry**

3 sh (may not be repeated for credit)

Introduce students to management career options within the hospitality industry; which include lodging, food & beverage, meetings & conventions, recreation & leisure, gaming entertainment, cruising, clubs, and transportation. The importance of leadership and service culture are also discussed.

HFT 3003 Travel and Tourism Management

3 sh (may not be repeated for credit)

Students study the organizations and techniques involved in developing and promoting a destination. The course highlights the importance of teamwork between the public and private sectors in tourism related activities. Cross-disciplinary examination of the many facets of travel and tourism management are also explored.

HFT 3214 Hospitality Safety, Sanitation and Risk Management

3 sh (may not be repeated for credit)

Students study safety and sanitation management principles in the hospitality industry related to safe food handling practices, responsible alcohol service, and developing and maintaining a sustainable facility for hospitality guests and employees. Students may obtain NRA ServSafe Food Safety and ServSafe Alcohol certifications, as well as the AHLA Risk Management Certification.

HFT 3221 Human Resources in the Hospitality Industry

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000*

Introduction to human resource management in the hospitality industries with emphasis placed upon motivation and training. Guest satisfaction is dependent upon employee satisfaction; therefore, strategies are explored to combat the high turnover which characterizes hospitality fields.

HFT 3271 Spa Management

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000

An examination of today's spa industry, spa careers, spa director's perspective, quality of spa experience, industry trends and future directions. Students will learn best practices that have proven successful in the spa industry. Major treatments/services are reviewed: facial therapies, massage therapies, water therapies, face and body services, salon services, exercise, personal training, etc. In addition to operations, the functional areas of marketing, human resources, and financial management are discussed within the context of spas.

HFT 3333 Contemporary Club Management

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000

Introduction to the world of private club management, including club governance, service excellence, organizational structure, human resources, quality management systems for clubs, government regulations, club marketing, food and beverage operations, computer technology for clubs, golf operations in clubs, club fitness operations, and club facilities management. Students learn how to incorporate sustainability practices in club management.

HFT 3414 Managing Front Office Operations

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000*

Students will learn a systematic approach to front office procedures by detailing the flow of business through a hotel, from the reservations process to check-out and account settlement. Various elements of effective front office management will be examined, paying particular attention to the planning and evaluation of front office operations and to human resources management. Front office procedures and management are discussed within the context of the overall operation of a hotel.

HFT 3814C Management of Food and Beverage Operations

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000 AND HFT 3214*

Provides the foundation for understanding the various challenges and responsibilities involved in food and beverage management. Students will examine the formulation, implementation, and evaluation of food and beverage organizations and apply the conceptual frameworks to specific situations. All aspects of food and beverage operations are covered including organization, marketing, menus, costs and pricing, production, service, safety, and finances.

HFT 3932 The Disney Semester: Experiential Learning in the Hospitality Industry

3-12 sh (may not be repeated for credit)

For students who have been accepted into the Walt Disney World College Program. Students will participate in classroom education (maximum of 4 classes - 3 credit hours / class) at Walt Disney World in Orlando, Florida. Permission is required.

HFT 3941 Field Study in Hospitality, Recreation and Resort Management

3 sh (may not be repeated for credit)

Students work in a hospitality, recreation or resort-related organization under the supervision of an agency representative and a faculty advisor. Skills, knowledge and values are developed on-the-job in entry level service industry positions; total of 300 work hours. Permission is required.

HFT 4274 Condominium and Vacation Interval Ownership

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000

A comprehensive study of timeshare and vacation ownership of condominium properties. Legal structures, projects budgeting, marketing, sales and property management. Students are introduced to the fastest growing segment of the lodging industry. Differences between traditional and non-traditional lodging operations are examined.

HFT 4277 Resort Operations and Management

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000 AND HFT 3414 AND HFT 3814C

Complete approach to the operation of resort properties from a department manager's perspective. Beginning with historical development, details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of resort business. The future and the impact of the condominium concept, time-sharing, technological change, and the increased cost of energy and transportation, are also discussed.

HFT 4295 Strategic Leadership in Hospitality Management

3 sh (may not be repeated for credit)

Prerequisite: ACG 3082 AND COM 4110 AND HFT 2000 AND HFT 3003 AND HFT 3221 AND HFT 3414 AND HFT 4343 AND HFT 4426 AND HFT 4503 AND MAN 3025 AND MAN 3240

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, recreation, and resort organizations dealing with strategic planning, leadership, management, budgeting, records and reports, risk management, staff organization, and coordination of resources. This course serves as the HRRM capstone.

HFT 4343 Planning and Design for the Hospitality Industry

3 sh (may not be repeated for credit)

Prerequisite: (HFT 2000 AND HFT 2850C) OR (HFT 1000 AND HFT 3414) OR (HFT 1254 AND HFT 3814C) OR FSS 1221C

Examination of the fundamental concepts, the specific principles, and the process of planning and designing hospitality, recreation and resort facilities; including visitor attractions. Students work individually and in teams to design facilities which fulfill travel/recreation expectations; operate graciously in the community; and function efficiently to realize profit.

HFT 4426 Financial Decision Making & Revenue Management for the Hospitality Industry

3 sh (may not be repeated for credit)

Prerequisite: ACG 3082 AND HFT 2000

Specialized accounting for hotel revenue and expenses; accounting for inventory, property, and equipment; hospitality payroll accounting; hotel departmental financial statements; the income statement, balance sheet, and statement of cash flows; the analysis of financial statements; interim and annual reports; budgeting expenses; forecasting sales; budgetary reporting analysis; and financial decision-making.

HFT 4503 Marketing Essentials for Hospitality Management

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000 AND HFT 3414 AND HFT 3814C

Introduction of the principles, concepts and systems utilized in the marketing and sales areas within the hospitality industry. An analysis of the marketing process as it relates to hospitality, recreation and resort services. Product and services marketing including decision making, placement, promotion, and distribution within organizations; strategic marketing planning; marketing research; social media marketing; current issues; and future trends. This in depth analysis of marketing strategies and theories will aid in creating a holistic appreciation of the scope and importance of the marketing and sales functions in the hospitality business.

HFT 4753 Convention Facilities and Meetings Management

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000

Convention facilities, convention and visitors bureaus, sponsors, host venues, stakeholders, tradeshow and meeting management are examined. Legal issues and trends are studied. The economic impact of meetings and convention business upon destinations is studied.

HFT 4940 Internship in Hospitality Management

1-3 sh (may be repeated for up to 3.000 sh of credit)

Prerequisite: HFT 2000

Students are required to work 800 paid hours in a hospitality industry position. Students work in a hospitality, recreation or resort related organization and have the opportunity to put theory into practice through active participation. Students are supervised by a management-level agency employee as well as by a faculty advisor. Permission is required to enroll.

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

HIS-Gen History Historiograph Courses

HIS 3002 Methods and Materials Colloquium
3 sh (may not be repeated for credit)

Intensive experience in historical research and writing, methodology, and interpretations. Required for all history majors. Permission is required.

HIS 3313 Issues in Gender and Diversity
3 sh (may not be repeated for credit)

Provides an interdisciplinary introduction to the theoretical and social issues regarding diverse groups and gender stereotypes. Focuses on how gender and diversity fit into the actions and interactions of the private and public sectors, and presents information on how to effectively promote institutions, relationships, politics, and services that value diversity and eliminate gender stereotypes.

HIS 3930 Junior Seminar
3 sh (may not be repeated for credit)
Prerequisite: HIS 3002

The Junior Seminar acts as a "capstone" course for history majors in their Junior year. This course provides the student with an opportunity to refine and practice skills learned in previous courses and to produce a work of historical scholarship. Each student will conduct original research and write a paper based on primary and secondary sources. At the end of the semester the student will give an oral presentation.

HIS 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.000 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

HIS 4066 Local History
3 sh (may not be repeated for credit)

Introduction to theory, methodology, and application of local history. Required attendance on field trips to local historical archives, museums, and sites.

HIS 4072 Oral and Community History
3 sh (may not be repeated for credit)

Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 5077; graduate students will be assigned additional work.

HIS 4081 Advanced Museology
3 sh (may not be repeated for credit)

This seminar in advanced museum studies introduces students to the larger museum operation elements including museum history, philosophy, administration, ethics, and public responsibility. Because of the nature of this course, you will have an unparalleled opportunity to immerse yourself in the discipline and cultivate a clear understanding of the field. The intensive course consists of one full week of concentrated class meetings followed by the remaining segments of the summer to complete museum projects. Offered concurrently with HIS 5087; graduate students will be assigned additional work.

HIS 4086 Issues in Historic Preservation
3 sh (may not be repeated for credit)

This course offers students a general introduction to the history, practices, principles, and fields of historic preservation. Offered concurrently with HIS 5084; graduate students will have additional work.

HIS 4251 Route 66 to the Atomic West
3 sh (may not be repeated for credit)

This course will provide students with an unparalleled opportunity to develop an in-depth understanding of Western Cold War, urban, and cultural history. This will include both in-class instruction as well as an inclusive twenty-seven day tour throughout the American West. During the first half of the summer, at the University of West Florida, the students will engage in lectures, discussions, and exercises, complete a series of comprehensive readings and topical research assignments, and prepare a series of podcasts on locations throughout the Atomic West. Throughout the month of July, for twenty seven days, the class will travel throughout eleven states and engage in presentations, tours, site-visits, and other activities. During this time, students will photograph, record, and document their findings and experiences. Through this process, students will gain an extensive and profound understanding of the course material as well as the locations that are part of our national history. Throughout our travels, students will upload their professional-quality podcasts about their trip and insights on the atomic west into the Next Exit History? system. Offered concurrently with HIS 5256; graduate students will have additional work.

HIS 4284 Maritime History
3 sh (may not be repeated for credit)

Survey of impact of oceans, rivers and other bodies of water upon the development of mankind. Focus on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

HIS 4316 Women in the Atlantic World
3 sh (may not be repeated for credit)

Examines the Atlantic World through the experiences of African, European, and American Women. Explores how women fit within the continuously evolving multicultural setting of the sixteenth, seventeenth, and eighteenth centuries. Meets Multicultural Requirement.

HIS 4354 Modern Military Leaders
3 sh (may not be repeated for credit)

Military leaders who have significantly affected various conflicts and pertinent developments in the modern age. Examines the prominent European and American military leaders and leadership skills from the age of religious conflicts in Europe through the Second World War. Encompasses the periods of absolutism, imperialism and colonialism, revolution and the emergence of democracy, and the rise of twentieth-century fascism.

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

HIS 4955 Overseas and Field Study in History

1-6 sh (may not be repeated for credit)

Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

HIS 5059 Graduate Methods

3 sh (may not be repeated for credit)

Research and preparation for writing theses and graduate papers.

HIS 5077 Oral and Community History

3 sh (may not be repeated for credit)

Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 4072; graduate students will be assigned additional work.

HIS 5082 Introduction to Archival Management

3 sh (may not be repeated for credit)

Provides an introduction to the basic theories, methodologies, and archival practices of appraisal, acquisition, arrangement, description, preservation, and reference services for historical records and archives.

HIS 5084 Issues in Historic Preservation

3 sh (may not be repeated for credit)

This course offers students a general introduction to the history, practices, principles, and fields of historic preservation. Offered concurrently with HIS 4086; graduate students will be assigned additional work.

HIS 5087 Advanced Museology

3 sh (may not be repeated for credit)

Historical museum operation: philosophy, administration, ethics, and public responsibility.

HIS 5256 Route 66 to the Atomic West

3 sh (may not be repeated for credit)

This course will provide students with an unparalleled opportunity to develop an in-depth understanding of Western Cold War, urban, and cultural history. This will include both in-class instruction as well as an inclusive twenty-seven day tour throughout the American West. During the first half of the summer, at the University of West Florida, the students will engage in lectures, discussions, and exercises, complete a series of comprehensive readings and topical research assignments, and prepare a series of podcasts on locations throughout the Atomic West. Throughout the month of July, for twenty seven days, the class will travel throughout eleven states and engage in presentations, tours, site-visits, and other activities. During this time, students will photograph, record, and document their findings and experiences. Through this process, students will gain an extensive and profound understanding of the course material as well as the locations that are part of our national history. Throughout our travels, students will upload their professional-quality podcasts about their trip and insights on the atomic west into the Next Exit History? system. Offered concurrently with HIS 4251; graduate students will have additional work assigned.

HIS 5515 History of Architecture

3 sh (may not be repeated for credit)

Examines the development of European architecture as a basis for understanding trends in American architecture from the colonial era to the twentieth century. Introduces the professional aspects of building and construction along with materials and techniques in building restoration and renovation.

HIS 6055 Public History Methodology

3 sh (may not be repeated for credit)

Public History practice and methodology focusing on community history, museology, policy history, environmental history, and media history.

HIS 6056 Graduate History Practicum

1-6 sh (may not be repeated for credit)

Supervised Graduate History experience in an institution or agency such as local, state or national museum; archive; historic preservation site; oral history program; historic district; or agency involved with historic film documentary and tourism. 300 hours minimum. Permission is required. Graded on satisfactory / unsatisfactory basis only.

HIS 6083 Historic and Heritage Preservation Seminar

3 sh (may not be repeated for credit)

Examines the evolution and theory of the historic preservation movement in the United States and the various methodologies associated with preservation and cultural resources management activities in the government and private sectors.

HIS 6285 Maritime History

3 sh (may not be repeated for credit)

Survey of impact of oceans, rivers, and other bodies of water upon the development of mankind. Focuses on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

HIS 6356 Modern Military Leaders

3 sh (may not be repeated for credit)

This course will examine the military leaders who have significantly affected various conflicts and pertinent developments in the modern age.

HIS 6904 Directed Readings

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

Permission is required.

HIS 6905 Directed Study

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

HIS 6911 Master's Research

1-3 sh (may be repeated for up to 3.000 sh of credit)

Permission is required.

HIS 6956 Advanced Overseas and Field Study in History

1-6 sh (may not be repeated for credit)

Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

HIS 6971 Thesis

1-6 sh (may not be repeated for credit)

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

HLP-Health Leisure Phys Educ Courses

HLP 2081 Health, Nutrition and Physical Fitness

3 sh (may not be repeated for credit)

Principles of exercise and nutrition and their roles in maintenance of good health. Students will be given the opportunity to develop their individual aerobic fitness program. An introductory level course.

HLP 3300 Organization and Administration of Professional Programs

3 sh (may not be repeated for credit)

Analysis of leadership principles related to study of man and human performance related to health, leisure and sports activities.

HLP 3905 Directed Study

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

HLP 4722 Health/Physical Education for Elementary School Teachers

3 sh (may not be repeated for credit)

Knowledge, attitudes and skills necessary for balanced programs of physical education and health education for grades K-8.

HLP 4905 Directed Study

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

HLP 4922 Field Experience

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

Placement in an appropriate setting for the purpose of learning more about a specific field. Student will observe and participate in a wide range of activities as determined by instructor and agency supervisor. Graded on satisfactory / unsatisfactory basis only. Permission is required.

HLP 4940 Internship

1-6 sh (may not be repeated for credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HLP 5905 Directed Study

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

HLP 6535 Research Procedures

3 sh (may not be repeated for credit)

Research methodology, critical analyses and evaluation of current research, and design of a research proposal in the major field.

HLP 6595 Research Seminar

3 sh (may not be repeated for credit)

Development of a research design suitable for a thesis or research project in health, leisure or sports science.

HLP 6905 Directed Study

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

HLP 6922 Field Experience

1-3 sh (may be repeated for up to 6.000 sh of credit)

Field experience in school or community agencies under faculty direction and on-the-job supervision. Graded on satisfactory / unsatisfactory basis only. Permission is required.

HLP 6940 Internship

3-6 sh (may be repeated for up to 6.000 sh of credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HLP 6971 Thesis

1-6 sh (may be repeated for up to 6.000 sh of credit)

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

HSA-Health Services Admin Courses

HSA 3111 Understanding U.S. Health Care

3 sh (may not be repeated for credit)

This course provides an orientation to the characteristics and foundation of the U.S. Health Care system including a review of health professionals, technology, financing and reimbursement, delivery systems, vulnerable populations, process improvement, and health policy.

HSA 3140 Strategic Planning in Health Care

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 4002 Healthcare Administration

3 sh (may not be repeated for credit)

This course provides students with an overview of concepts and issues related to healthcare administration in a variety of healthcare settings, such as hospitals, nursing homes, clinics and others. Emphasis is placed on important issues such as ethics, controlling costs, strategic planning and marketing, information technology, and personnel administration.

HSA 4110 Health Care Policy and Administration

3 sh (may not be repeated for credit)

Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 5115; graduate students will be assigned additional work.

HSA 4191 Health Information Systems

3 sh (may not be repeated for credit)

Provides an overview of various health information such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed. Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching.

HSA 4192 Current Topics in Health Informatics

3 sh (may not be repeated for credit)

Provides an overview of the multifaceted, interdisciplinary nature of health (medical) informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Offered concurrently with HSA 5197; graduate students will be assigned additional work. Credit may not be received in both HSA 4192 and HSA 4190. This course was formally known as Introduction to Medical Informatics.

HSA 4193 Electronic Clinical Record Systems

3 sh (may not be repeated for credit)

Explores the use and evaluation of commercially available electronic medical record systems. Health care workflow issues will be addressed in the context of impacts of billing, collections, HIPAA, and scheduling in a health care practice. Offered concurrently with HSA 5198; graduate students will be assigned additional work.

HSA 4340 Personnel Administration in Healthcare

3 sh (may not be repeated for credit)

This course focuses on the fundamental concepts and practical tools necessary for maximizing employee performance in healthcare organizations with special emphasis on the complex factors that influence the performance of this unique workforce in a dynamic industry.

HSA 4394 Advanced Topics in Healthcare Information Technology

3 sh (may not be repeated for credit)

This online course serves as an introduction to health information technology. This course provides a basic overview of computer architecture; data organization, representation and structure; and the fundamentals of data communication. This course also covers a large breadth of terminology used in the computer industry. Offered concurrently with HSA 5196; graduate students will be assigned additional work.

HSA 4430 Health Economics

3 sh (may not be repeated for credit)

Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 5436; graduate students will be assigned additional work.

HSA 4431 Business Analysis and Decision Making in Health Care

3 sh (may not be repeated for credit)

Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 5438; graduate students will be assigned additional work.

HSA 5115 Health Care Policy and Administration

3 sh (may not be repeated for credit)

Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 4110; graduate students will be assigned additional work.

HSA 5196 Advanced Topics in Healthcare Information Technology

3 sh (may not be repeated for credit)

This online course serves as an introduction to health information technology. This course provides a basic overview of computer architecture; data organization, representation and structure; and the fundamentals of data communication. This course also covers a large breadth of terminology used in the computer industry. Offered concurrently with HSA 4394. Graduate students will be assigned additional work.

HSA 5197 Current Topics in Health Informatics

3 sh (may not be repeated for credit)

Provides an overview of the multifaceted, interdisciplinary nature of health informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Working knowledge of medical terminology and acceptance into the Health Informatics Certificate Program also included. Training in a health care-related field at the Associate's or Bachelor's level is required. Offered concurrently with HSA 4192; graduate students will be assigned additional work. This course was formerly known as Introduction to Medical Informatics.

HSA 5198 Electronic Clinical Record Systems

3 sh (may not be repeated for credit)

Explores the use and evaluation of a commercially available electronic medical records system. Health care workflow issues will be addressed in the context of impacts on billing, collections, HIPAA and scheduling in a health care practice. Working knowledge of personal computers, including knowledge of word-processing, spreadsheet packages, and Internet searching. Offered concurrently with HSA 4192; graduate students will be assigned additional work.

HSA 5436 Health Economics

3 sh (may not be repeated for credit)

Prerequisite: GEB 5871

Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 4430; graduate students will be assigned additional work.

HSA 5438 Business Analysis and Decision Making in Health Care

3 sh (may not be repeated for credit)

Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 4431; graduate students will be assigned additional work.

HSA 5905 Directed Study

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

HSA 6342 Human Resources in Health Care
3 sh (may not be repeated for credit)

Introduces graduate students to the management of human resources specifically within health care organizations. The course focuses on skills required to become an effective manager and gain knowledge of fundamental human resource management topics: strategic HR management; workforce planning; legal environment of HR management; workforce diversity; job analysis and job design; recruitment, selection, and retention; organizational development and training; compensation and benefits; health safety and preparedness; and employee and labor-management relations.

HSA 6521 Critical Analysis of Health
3 sh (may not be repeated for credit)

Analysis of research being conducted on causes of illness and death in the United States and other countries. Credit may not be received in both HSA 6521 and HSA 6106.

HSC-Health Science Courses

HSC 2100 Personal Health
3 sh (may not be repeated for credit)

Provides information on personal health issues from which students may base current and future decisions regarding their health and wellness. To promote an environment where effective decision making skills can be acquired through structured group interaction.

HSC 2130 Sex & Booze: A Peer Health Education Course
3 sh (may not be repeated for credit)

Educates and trains students in assessing college life health issues and experiences among peers utilizing an active learning approach in order to educate college students on issues such as peer education, leadership, alcohol misuse/abuse prevention, sexual assault prevention, healthy relationships, and sexual health responsibility. Participation in the course will equip students with vital knowledge and skills needed for their experience as, and interactions with, college students. Students should also expand their abilities for developing and providing useful presentations and expertise in offering feedback and resources for issues affecting UWF peers. The material will help to build a team environment and leadership skills.

HSC 2577 Principles of Nutrition
3 sh (may not be repeated for credit)

The fundamentals of nutrition are explored, emphasizing the biochemical and physiological mechanisms of digestion, absorption, metabolic pathways, energy requirements, and nutritional status. It provides students with an understanding of nutrients and their roles in the body while examining current issues in food science. An emphasis is placed on promotion of growth and health by examining weight control, disease prevention, food safety, and planning a healthy diet.

HSC 3032 Foundations in Health Education
3 sh (may not be repeated for credit)

Explores the philosophy and principles that provide the foundations of health education as an academic discipline and as a profession. Emphasis will focus on health education in our society, theoretical basis, settings, ethical issues, current issues, marketing, planning and future outlook in the field.

HSC 3034 Current Issues in the Health Sciences
3 sh (may not be repeated for credit)

Introduces the student to current regional, state, national and international trends and issues in the health sciences. This course will provide an overview of the field of health sciences.

HSC 3406C Advanced First Aid and Emergency Care
3 sh (may not be repeated for credit)

Study and practice of standard first aid procedures which are essential for survival in emergency and disastrous situations. Cardiopulmonary resuscitation method will be included. Red Cross certification will be available to students who meet current standards. Material and supply fee will be assessed.

HSC 3535 Introduction to Medical Terminology
3 sh (may not be repeated for credit)

This distance learning course is designed to familiarize students with the basics of vocabulary used in the medical and health professions. Students will employ a systematic, word-building approach to master the complex terminology of the medical field. The self-paced approach requires excellent time management skills, computer skills, and commitment by the student. The coursework will be presented through the textbook, with practice exercises and tests for each course unit will be submitted electronically. Working knowledge of how to use personal computers, including knowledge of word processing and Internet searching is required prior to this course. Credit may not be received in both HSC 3535 and HSC 3534.

HSC 3555 Pathophysiology
3 sh (may not be repeated for credit)
Prerequisite: (BSC 1085 AND BSC 1086) OR PCB 4703

Disease as an abnormal biological process. Selected physiological processes and basic concepts of body response to pathology will be explored. Approach appropriate to students of nursing, allied health, medicine, and biology. Recommended prerequisite; one course in anatomy and physiology.

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

HSC 4050 Health Sciences Research Seminar
3 sh (may not be repeated for credit)

This capstone course will focus on contemporary research in the health sciences. The course will cover topics such as the scientific method, research study designs, critical evaluation of the literature, technical writing, research ethics, data collection, and analysis. As part of an ongoing semester project, students will design a research proposal on a specific topic in health. A capstone exam will be given.

HSC 4104 Health Aspects of Stress Management
3 sh (may not be repeated for credit)

A study of physiological, psychological, and sociological aspects of stress as related to overall health. Anger, fear, and depression and their underlying mechanisms related to the stress response on health and disease will be examined. Emphasis is on identification of stressors, methods of prevention and coping strategies. Group activities and individual assignments provide opportunities for personal analysis.

HSC 4120 Consumer Health Education
3 sh (may not be repeated for credit)

Enables students to make intelligent decisions about the health care marketplace. Basic information regarding health care products, services and consumer protection will be of central focus.

HSC 4133 Health Aspects of Human Sexuality
3 sh (may not be repeated for credit)

A study of physical, mental, emotional, social, and psychological phases of human sexuality as they are affected by male and female relationships. Emphasize a holistic perspective on sexuality. Lectures by the instructor and experts from the community will provide an overview of the major issues in sexuality. Assigned readings will provide detailed information. Group activities and individual assignments will provide opportunities for personal analysis and growth with regard to a wide variety of topics.

HSC 4143 Drugs in Society
3 sh (may not be repeated for credit)

Provides students with knowledge of the use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug use and abuse on personal and community health. Concepts of prevention, education and control will be covered. Material and Supply Fee will be assessed.

HSC 4211 Human Environmental Health
3 sh (may not be repeated for credit)

An online course with an overview of major environmental issues facing society at the dawn of the 21st century. Ecological concerns will be matched with specific elements related to personal and community health, emphasizing the interrelatedness of the two and conveying an awareness of how current environmental issues directly affect your own life.

HSC 4300 Changing Health Behaviors
3 sh (may not be repeated for credit)

Designed to acquaint students with a general theory of behavior, guide them through exercises for developing skills in self-analysis, and to provide information on how to achieve individual behavior change goals. Students will learn techniques for developing community-based health behavior change programs and employ coping skills for personal problem solving.

HSC 4404 Medical Disaster Management
3 sh (may not be repeated for credit)

Introduces students to facets of natural and technological disasters while integrating public health research designs and practices. Class lectures and discussions utilize recent and historical case studies as a basis for developing the critical thinking and leadership skills needed by healthcare professionals in crisis situations. International, domestic, and regional settings are addressed, as well as the social, economic, and political aspects of disaster planning, preparedness, and mitigation. Basic public health concepts and methodologies as they relate to course material. Permission is required.

HSC 4500 Epidemiology
3 sh (may not be repeated for credit)

A study of the factors determining and influencing the frequency, distribution, and causes of diseases and other events that impact the health and safety of the human population. Programs and strategies to prevent and control such events and diseases will be explored.

HSC 4511 Health Care Quality and Database Management
3 sh (may not be repeated for credit)

Emphasizes how to develop, deploy, and evaluate new tools to analyze clinical data resources. Special attention is given to improving health care quality and decision-making to address the needs of a clinical practice or administration. Case studies involving the development and assessment of databases for disease management and drug utilization will be covered. Students will learn how to collect, summarize, statistically analyze, present, and interpret data. Students will be training in the fundamentals of database design and information retrieval as they develop a working tool to address health care quality improvement. Finally, legal and ethical issues involving training, documentation, security, confidentiality, the use of informed consent, and regulatory requirements are addressed.

HSC 4551 Communicable and Degenerative Diseases
3 sh (may not be repeated for credit)

Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin, symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 5552; graduate students will be assigned additional work. Junior / Senior status required.

HSC 4572 Nutrition and Health
3 sh (may not be repeated for credit)

A study of the principles of nutrition science as applied to daily living. Topics include the six major nutrients; carbohydrates, lipids, proteins, vitamins, minerals, and water. Course also examines nutrition standards, Dietary Guidelines, digestive process, energy balance, nutrition controversies, and health educator's scope of practice related to nutrition education and counseling. Previous courses in nutrition, anatomy, physiology, or biology are highly recommended. Material and Supply Fee will be assessed.

HSC 4581 Health Promotion and Planning
3 sh (may not be repeated for credit)

Practical application of theory, models, principles, and practices of health promotion, planning, and implementation. Experiential activity includes creating a health promotion program incorporating: developing and administering a needs assessment, applying a behavioral and environmental assessment, writing goals and measurable objectives, marketing the program, presenting the health program, evaluating the program.

HSC 4583 Theoretical Foundations of Health Promotion and Planning
3 sh (may not be repeated for credit)

A comprehensive overview and analysis of theory, models, principles, and practices of health education and promotion planning and implementation. Topics for discussion include health promotion and a framework for planning, social assessment and participatory planning, epidemiological assessment, behavioral and environmental assessment, educational and ecological assessment, administrative and policy assessment, evaluation and applications in community, occupational, school, and health care settings.

HSC 4633 Current Issues in School-Community Health
3 sh (may not be repeated for credit)

A study of contemporary health issues affecting schools and communities. Emphasis will be placed on environment, medical care, lifestyle factors, and communicable diseases.

HSC 4658 End-of-Life Ethics
3 sh (may not be repeated for credit)

An examination of key issues and cases in end-of-life ethics. Credit may not be received in both HSC 4658 and HSC 4654.

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

HSC 4910 Senior Capstone Experience in Community Health Education
1-6 sh (may not be repeated for credit)
Prerequisite: HSC 4581

This capstone experience for Community Health Education majors provides opportunities for students to put theory into practice through active participation and class participation. Students are supervised by practitioners in a community health education. Departmental permission will be required.

HSC 4940 Internship
1-6 sh (may not be repeated for credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HSC 5205 Public Health Preparedness
3 sh (may not be repeated for credit)

Introduces types of disasters, the national incident management systems and its role in disaster planning, prevention, and mitigation. The structure and organization of medical disaster response, exercises, emergency communication, rapid health assessment, surveillance, and triage. Introduces the public health role in responding to chemical, biological, disease, radiological, nuclear, and explosive incidents. Also covers social/mental health, environmental services, ethical, and legal issues in disasters. Introduces evaluation methods for assessing the medical and public health responses.

HSC 5506 Advanced Epidemiology
3 sh (may not be repeated for credit)

Examines the use of epidemiological procedures as they apply to community health planning. Emphasis is placed on the application of epidemiological concepts in determining the effectiveness of current and potential medical and public health interventions.

HSC 5552 Communicable and Degenerative Diseases
3 sh (may not be repeated for credit)

Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 4551; graduate students are assigned additional work. Upper division or graduate status is required.

HSC 5602 Life, Illness and Death
3 sh (may not be repeated for credit)

An examination of the worldviews of patients and health care providers which influence how both confront illness, suffering, and death. Permission is required.

HSC 5655 Theoretical Foundations of Health Care Ethics
3 sh (may not be repeated for credit)

Illuminating major ethical theories and their relation to health care ethics. The application and visibility of these theoretical models will be tested with respect to training and professional practice in health care. Permission is required.

HSC 5656 Clinical Ethics Grand Rounds
3 sh (may not be repeated for credit)

Students will participate in grand rounds with specified health care professionals. In response to various cases presented at ethics grand rounds, students will participate in mock round table bioethics consultations and committees. A clinical ethics case study and permission is required.

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

HSC 6012 Professional Development in Biomedical/Pharmaceutical Sciences
3 sh (may not be repeated for credit)

A capstone course for the specialization. Exposes students to the basic professional skills required of administrators in the biomedical and pharmaceutical industries. Credit may not be received in both HSC 6012 and HSC 6000.

HSC 6037 Philosophical Foundations of Health Education
3 sh (may not be repeated for credit)

High-order philosophical, ethical, and theoretical foundations of the professional practice of health education are explored. Students will be expected to develop their own philosophical, ethical and theoretical approach(es) to the field after becoming familiar with the peer-reviewed literature related to the health education.

HSC 6135 Health Guidance and Cultural Competency
3 sh (may not be repeated for credit)

The course examines the roles of health educators, health administrators, and other health professionals in providing culturally competent health guidance to consumers of health care. The course provides insight into the history of health care, examination of the culture's role in health and healing, current issues, and challenges facing health care in contemporary society. Students will be challenged to integrate research and theory of health communication as they apply concepts related to health communication and cultural competency.

HSC 6206 Community Health Delivery Systems
3 sh (may not be repeated for credit)

This course explores health care delivery in the United States. Examines health care systems in other countries along with covering topics including American beliefs and values related to health care delivery, evolution of health services in the United States, health service professions, influence of medical technology, and the financing of health services.

HSC 6226 Current Issues in Worksite Wellness
3 sh (may not be repeated for credit)

Foundational course for developing, implementing, and evaluating Worksite Health Promotion (WHP) programs. Current issues related to worksite wellness and health promotion will be discussed and reviewed in detail. Topics include: history of WHP; the health/productivity/cost link; and WHP program framework. Worksite employee issues will be explored including: employee health needs, employee health interests, employee health interests, and accessing employee data. Worksite program goals, policy, implementation, participation generation, and evaluation will be analyzed. Management hierarchy and organizational values will be assessed in relation to building a healthy worksite environment. Funding and resource considerations will be evaluated.

HSC 6528 Strategies for Prevention of Infectious Disease
3 sh (may not be repeated for credit)

A comprehensive study of the tools for the control of infectious diseases and the application of these tools in public health programs to achieve an epidemiologic impact on disease reduction, elimination or eradication.

HSC 6576 Nutrition Across the Life Cycle
3 sh (may not be repeated for credit)

Nutritional health needs across the life cycle, from preconception to later years are covered. Course emphasizes the critical analysis of each stage of life on nutrition intake, how to meet nutritional needs, and the impact of SES, psychological, and physiological factors on food intake, nutritional status and well being.

HSC 6587 Health Education Program Planning and Evaluation
3 sh (may not be repeated for credit)

This course is designed to prepare the graduate student with the theoretical and practical perspectives of health program planning and evaluation. Emphasis will be placed on the major components of program planning models; needs assessment; priority setting; program goals and objectives; program implementation and evaluation; and budgeting. Additional topics include: ethical issues related to health program planning; multicultural literacy; and grant writing. Graduate standing or permission from Health Education faculty for non-graduate students is required.

HSC 6666 Health Education and Interactive Technology
3 sh (may not be repeated for credit)

Course offers health educators and health care administrations various perspectives relating to the development and implementation of effective interactive computing technology. Program development and interventions are aimed at improving various health-related outcomes such as promoting an individual's involvement in their personal health care, quality of life, adherence to health promoting strategies, and disease management. Above issues are also addressed within a community setting.

HSC 6667 Social Marketing in Health Education
3 sh (may not be repeated for credit)

Provides students with an understanding of social marketing definitions, theory, and techniques. Social marketing systematically applies consumer marketing tools to achieve a consumer oriented approach to health promotion programming. Students will learn how to segment, reach, and influence target audiences while examining issues such as product planning, pricing, communication, distribution, and market research. As part of this course, students will apply marketing principles to design program messages and materials for behavior change initiatives.

HSC 6707 Current Issues in Health Administration
3 sh (may not be repeated for credit)

Students will examine current issues in the dynamic field of health care and the implications for health care administrators and other health professionals. Topics include outpatient services and primary care; hospital facilities; managed care; long term care; health care concerns in vulnerable populations; cost, access and quality of health care; health care policy; and future of health services delivery in the US.

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

HUM-Humanities Courses

HUM 4911 Interdisciplinary Humanities Capstone
3 sh (may not be repeated for credit)

Designed so the student may integrate and reflect on his or her undergraduate program of study. Internship or research project is closely coordinated with the student's advisor. Purpose is to provide connection, coherence, and closure to one's major course of study. Permission is required.

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

HUM 6971 Thesis
1-8 sh (may not be repeated for credit)

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

IDH-Interdisciplinary Honors Courses

IDH 1040 Honors Core 1
3 sh (may not be repeated for credit)

Honors Core 1 and Honors Core 2 establish the foundation of the academic experience unique to the Honors program at the University of West Florida. Honors Core 1 focuses on the formulation of the self as it appears in our central literary heritage and examines the overarching, guiding questions that have long beset humanity as they appear in core Western texts. Honors Core 1 is designated as a General Education course. The General Education curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting your requirement in the Literature area. The major General Education learning outcomes for this course are Analysis / Evaluation, Information Literacy, and Writing. Offered Fall Semester only. General Education: Humanities - Literature. Gordon Rule: Writing.

IDH 1041 Honors Core 2
3 sh (may not be repeated for credit)

Honors Core 1 and Honors Core 2 establish the foundation of the academic experience unique to the Honors program at the University of West Florida. In Honors Core 2, students will explore the philosophical underpinnings of community and investigate the distinctive features of Western and Eastern notions of communal life. This foundation will prepare students to address those features of modern society that threaten community. Specific attention will be given to various threats to community, including radicalism and globalization, mass society and suburban sprawl, lawlessness and violence, technology and social networking, and economic arrangements and collective action problems. Students then will consider the ways in which citizens can benefit from engaging their communities of interest, can foster more meaningful civic life, and can provide leadership to build a better future. Honors Core 2 is designated as a General Education course. The General Education curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting your requirement in the Social Science, Socio-Political Perspectives area. The major General Education learning outcomes for this course are Analysis / Evaluation, Information Literacy, Team Work Skills, and Service Learning / Civic Engagement. Offered Spring Semester only. General Education: Social Science - Socio-Political Perspectives. Meets Multicultural Requirement.

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

IDH 3055 Honors Thesis Research Methods
1 sh (may not be repeated for credit)

This course helps students understand the thesis-writing process and covers the basic research methodologies required to begin a thesis project. Each week, we will address one important step in the thesis process, starting with the question, "What is a thesis?," and finishing with the submission of a completed thesis prospectus and annotated bibliography (aka a literature review) of sources relevant to the student's chosen topic. Along the way, we will cover important areas such as choosing a topic, approaching an advisor, scholarly research methods, time management, and thesis presentation requirements. The class is conducted as a collaborative, hands-on workshop and thus provides a strong level of peer-support for students just beginning work on their theses. The goals of the course are to demystify the thesis process, prepare students to write a successful thesis, and provide intellectual and moral support throughout the early thesis-writing process. Department Permission required. Offered Spring only.

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

IDH 4030 Honors Seminar: Topic I
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4031 Honors Seminar: Topic II
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4032 Honors Seminar: Topic III
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4033 Honors Seminar: Topic IV
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4034 Honors Seminar: Topic V
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4035 Honors Seminar: Topic VI
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4036 Honors Seminar: Topic VII
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4037 Honors Seminar: Topic VIII
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors program only.

IDH 4038 Honors Seminar: Topic IX
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4039 Honors Seminar: Topics X
3 sh (may be repeated for up to 12.000 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

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

IDH 4915 Honors Research Project
1-3 sh (may be repeated for up to 6.000 sh of credit)

Directed research / creative activity under the supervision of a faculty sponsor. Project description must be submitted to and approved by the Director of the Honors Program prior to enrollment in the course. Open to Honors students only. Graded on satisfactory / unsatisfactory basis only.

IDH 4970 Honors Thesis

1-6 sh (may be repeated for up to 6.000 sh of credit)

Capstone project for University Honors Program. Formal presentation of research / creative activity. Open to Honors students only. Graded on satisfactory / unsatisfactory basis only. Permission is required.

IHS-Interdis Health Science Courses

INP-Industrial Applied Psych Courses

INP 3004 Industrial Psychology

3 sh (may not be repeated for credit)

Application of psychological principles to problems of employee selection, placement, merit rating, job analysis, management training and other factors related to productivity.

INP 3313 Organizational Behavior

3 sh (may not be repeated for credit)

Understanding human processes in formal organizations, utilizing individual and group exercises which simulate behavioral dynamics in organizations. Content areas include conflict resolution, communication, leadership, planning and control and other organizational processes. May not be taken for credit by students having credit in either MAN 3240. MAN 3025 or equivalent is suggested prior to taking this course, but not required.

INP 3905 Directed Study

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

INP 4112 Military Psychology

3 sh (may not be repeated for credit)

The course focuses on uses of human factors, industrial-organizational, social and clinical psychology in various military settings to promote the behavioral health of service members and families, performance of individuals and teams, and success in military operations. We will treat the study and practice of psychology in the military as a means for gaining useful insights about human behavior. The course is intended to provide students an orientation to areas they may pursue for greater knowledge and/or employment in military psychology settings. This is a seminar course and as such is expected to be highly interactive and a chance for students to share what they have learned from researching individual topics.

INP 4224 Psychology of Workforce Diversity

3 sh (may not be repeated for credit)

Addresses the experience of work as it varies with the gender and ethnic background of workers in the United States. Other bases of diversity (e.g., disability) may also be addressed. Topics include work-related stereotypes and attitudes; discrimination and harassment; career choice, occupational segregation, and employment patterns; group differences related to fair testing and employment practices; the relationship of workforce diversity to processes such as supervision, leadership, mentoring, and power; law and public policy related to diversity and work. Lecture, discussion, and participative learning methods are used. Three hours of psychology or sociology are required prior to taking this course.

INP 4905 Directed Study

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

INP 5087 Ethics in I/O Psychology

1 sh (may not be repeated for credit)

A one hour seminar-style course that addresses the ethical concerns of I/O psychologists working in such areas as consulting, research, academia, and human resources. Permission is required.

INP 5131 Legal Issues in Industrial/Organizational Psychology

3 sh (may not be repeated for credit)

Exposes students to laws, guidelines, and court cases (e.g., ADA, ADEA, FMLA, Sexual Harassment, Civil Rights Acts) important to human resource functions in organizations, with particular emphasis on employment testing for selection.

INP 5905 Directed Study

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

INP 6216 Personnel Selection and Appraisal

3 sh (may not be repeated for credit)

Current issues and techniques in selection, placement and appraisal, job analysis, criterion development; the validation process, assessment centers and EEO issues.

INP 6255 Methods in Personnel Psychology

2 sh (may not be repeated for credit)

Prerequisite: INP 6216

Experience in the construction and / or use of various instruments or procedures in personnel psychology. Examples may include personnel selection or performance appraisal devices; job analysis or job evaluations; calculation of reliability, validity or cut off scores or needs assessments for training. Permission is required.

INP 6325 Training and Development

3 sh (may not be repeated for credit)

Examines both the theory and practice of Training and Development in organizations. Provides students with a working knowledge of the industrial psychology model of training the adult learner (i.e., assessing training needs, developing training programs, delivering training programs, and evaluating the success of training interventions). Also explores theories of learning and motivation and post-training strategies for enhancing the success of a training program.

INP 6385 Group Dynamics in Organizations

3 sh (may not be repeated for credit)

Students must take MAN 3025 or PSY 2012 or SOP 3004 before enrolling in this course. Emphasizes the application of general principles and theories derived from group processes research (particularly the social psychological research) to contemporary organizational problems. The classroom experience will be student-centered. Students will be expected to participate in discussion and classroom exercises, and prepare short written analyses of examples and cases. Topics covered may include: group development and socialization, group structure, conformity and influence, conflict, social identity, commitment, power, leadership, performance and decision-making.

INP 6397 Management and Organizational Behavior
3 sh (may not be repeated for credit)

Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Also emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.), and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. Not available to students having credit for MAN 6156.

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

INP 6944 Practicum in Industrial Psychology
1-3 sh (may be repeated for up to 6.000 sh of credit)

Primarily for education in traditional industrial areas. Involves placement in an industrial setting. 6-8 hours per week of field experience for every hour of credit. Must be an industrial-organizational program student and permission is required.

INR-International Relations Courses

INR 2002 International Politics
3 sh (may not be repeated for credit)

Sources and processes of conflict and cooperation among nation-states. General Education: Social Science - Socio-Political Perspectives. Meets Multicultural Requirement.

INR 3006 Conflict, Violence and Peace
3 sh (may not be repeated for credit)

Conflict and violence which characterizes domestic politics of many nations. Focus on rebellions, revolutions, and coups. Gandhi's model of peaceful resolution of conflict. Meets Multicultural Requirement.

INR 3073 Analyzing Issues in International Politics
3 sh (may not be repeated for credit)

This course examines several key contemporary issues in international politics. The course has both a theoretical and an applied component, with emphasis on readings to build concepts and empirical understanding combined with application through discussion and exercises designed to engage students in qualitative and quantitative analysis of these topics. For the applied component, the course approaches contemporary topics by employing the tools of political science research, including data interpretation in visual form such as charts and graphs, statistics, and models.

INR 3102 American Foreign Policy
3 sh (may not be repeated for credit)

Factors shaping American Foreign Policy in contemporary contexts; emphasis will be placed on the administration of American foreign policy and diplomacy.

INR 3224 International Relations of East Asia
3 sh (may not be repeated for credit)

This course explores security and military issues in East Asia - a region containing four "great powers" (the United States, China, Japan and Russia) and three medium-level powers (the two Koreas and Taiwan) - from the beginning of the cold war up to the current years.

INR 3225 Vietnam and American Politics
3 sh (may not be repeated for credit)

The Vietnam War and its impact upon the political experience and social values of the United States.

INR 3503 Model United Nations
3 sh (may not be repeated for credit)

Students will learn the theory behind the founding, the history, the organization, and the parliamentary procedures of the United Nations. During in-class simulations, they learn to represent the University of West Florida at local or regional Model United Nations conferences, where they would be required to be "in-character," representing the views of their assigned country rather than their own. Requires extensive preparation and research.

INR 4060 Causes of War
3 sh (may not be repeated for credit)

This course will examine the causes and evolution of war. Drawing widely from new and established scholarship, it addresses several major topics: war's origins and evolution; theories about the causes and nature of war; arguments for a contemporary world of "new wars;" and theories about the future of war. Along the way, the course analyzes several very different international conflicts, World War I, the Cold War and the recent Iraq War. Specific issues addressed amidst these major themes include war and the state; structural and psychological explanations for war; terrorism and irregular war; and the moral/ethical dimensions of war.

INR 4205 Spying: Fact and Fiction
3 sh (may not be repeated for credit)

Examination, in a seminar environment, of various aspects of espionage among major powers in the period 1915-2006. The primary focus of the course is on real-world human intelligence and counterintelligence activities of espionage agencies revealed in six novels. Coverage will be given to operations by German, French, British, Soviet, and U.S. human intelligence organizations supporting their nation's vital interests from World War I and II, the Cold War and in the modern era. Offered concurrently with INR 5206 (Spying: Fact and Fiction); graduate students will be assigned additional work.

INR 4334 National Security Policy
3 sh (may not be repeated for credit)

Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 5330; graduate students will be assigned additional work.

INR 4364 Intelligence
3 sh (may not be repeated for credit)

Covers the origins, missions, functions, and responsibilities of the US security agencies as well as the relationship of the intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 5365; graduate students will be assigned additional work.

INR 4403 International Law
3 sh (may not be repeated for credit)

Nature, history and trends of legal controls on international behavior; conflict between theory and practice; cases will be used to illustrate various points of law.

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

INR 5065 Causes of War

3 sh (may not be repeated for credit)

This course will examine the causes and evolution of war. Drawing widely from new and established scholarship, it addresses several major topics: war's origins and evolution; theories about the causes and nature of war; arguments for a contemporary world of "new wars;" and theories about the future of war. Along the way, the course analyzes several very different international conflicts, World War I, the Cold War and the recent Iraq War. Specific issues addressed amidst these major themes include war and the state; structural and psychological explanations for war; terrorism and irregular war; and the moral/ethical dimensions of war. Offered concurrently with INR 4060; graduate students will have additional work.

INR 5206 Spying: Fact and Fiction

3 sh (may not be repeated for credit)

Examination, in a seminar environment, of various aspects of espionage among major powers in the period 1915-2006. The primary focus of the course is on real-world human intelligence and counterintelligence activities of espionage agencies revealed in six novels. Coverage will be given to operations by German, French, British, Soviet, and U.S. human intelligence organizations supporting their nation's vital national interests from World War I and II, the Cold War and in the modern era. Offered concurrently with INR 4205 (Spying: Fact and Fiction); graduate students will be assigned additional work.

INR 5330 National Security Policy

3 sh (may not be repeated for credit)

Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 4334; graduate students will be assigned additional work.

INR 5365 Intelligence

3 sh (may not be repeated for credit)

Covers the origins, mission, functions, and responsibilities of the US security agencies as well as the relationship of intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 4364; graduate students will be assigned additional work.

INR 6007 Seminar in International Relations

3 sh (may not be repeated for credit)

International Relations as a field study; theory, empirical data, historical development of the field.

INR 6905 Directed Study

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

INS-International Studies Courses**INS 3905 Directed Study**

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

ISC-Interdisciplinary Sciences Courses**ISC 5517 Buddhist Psychology**

2 sh (may not be repeated for credit)

Psychological overview of Buddhist theory and practice as they relate to everyday living, clinical practice and personal and transpersonal growth. Drawing from Theravada, Mahayana, Tantra and Zen, topics include four noble truths, suffering, concentration, jhanas, dependent origination, attachments, mindfulness, vipassana, nature of self, consciousness, compassion, insight, freedom, and enlightenment.

ISC 5517L Buddhist Psychology Lab

1 sh (may not be repeated for credit)

Students learn and practice different types of meditation to cultivate concentration and mindfulness during meditation and daily living. Construction of a personal mandala and regular class attendance and participation are required.

ISC 5905 Directed Study

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

ISM-Information Systems Mgmt Courses**ISM 3011 e-Business Systems Fundamentals**

3 sh (may not be repeated for credit)

Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

Use and application of information system technology in the business environment, with emphasis on the fundamental e-Business models, technology concepts and systems used to enable and conduct electronic business. Concepts include the components of an I.S., the systems development process, the functions of the various types of communication networks, hardware, and software, including practical, hands-on projects designed to enhance e-Business analytical skills.

ISM 3116 Business Intelligence Fundamentals

3 sh (may not be repeated for credit)

Prerequisite: ISM 3011

Business Intelligence I uses spreadsheets to identify trends and relationships in business data and how to apply them in a business environment. The focus of the course is on the managerial application of the results rather than the algorithmic derivation of the results.

ISM 3235 Business Development Environments

3 sh (may not be repeated for credit)

Prerequisite: CGS 2570

Explores the concepts involved in the development of event-driven business applications. Concepts covered include GUI application design and development, object-oriented systems linking business objects, and client-server environments. Uses an object-oriented programming language to demonstrate the concepts. Prior programming experience preferred but not required.

ISM 3323 Information Security Management

3 sh (may not be repeated for credit)

Prerequisite: ISM 3011 OR COP 2253

Information Security in the modern organization is both a management and a technology issue. Course recognizes that technology alone cannot address all the security issues; Prepares students for management and control of security of information systems in organizations; prepares students to make informed decisions regarding administration of information security infrastructure.

ISM 4113 Business Systems Design
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

A project-based introduction to the principles of business information systems design, including the basic methods and procedures involved in planning and controlling the development and modification of a computer-based information system in an organization. Students use modern microcomputer-based, computer-aided systems design tools and techniques to complete design projects. Focuses on the importance of end-user specifications for information systems projects.

ISM 4114 Business Information Systems Development
3 sh (may not be repeated for credit)
Prerequisite: ISM 3235 AND ISM 4113

An advanced course in the application of emerging information technologies to the development of business information systems. Students integrate knowledge from previous courses to plan, analyze, design, and implement a comprehensive, real-world, project. Emphasis is on the integration of business requirements with emerging information technologies to develop the business information systems framework.

ISM 4117 Business Intelligence Applications
3 sh (may not be repeated for credit)
Prerequisite: (ISM 3116) AND (ISM 4481* OR COP 4710*)

Business Intelligence 2 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.

ISM 4300 Systems Planning, Design and Control
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Techniques for the planning, design and control of information systems. Stresses link between strategic planning of the organization and strategic planning of the management information system.

ISM 4400 Decision Support and Expert Systems
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Current tools and techniques available to support managerial decision-making. Analysis and practice in the building and use of decision support systems and expert/knowledge-based systems.

ISM 4481 Knowledge Management for e-Business
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011 AND ISM 3235

Explores the complexities of knowledge management in the e-business era. Uses software tools to analyze data and create business intelligence.

ISM 4483 e-Business Infrastructure Management
3 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Explores the technology and management concepts, issues and decisions related to the infrastructure required to support end-to-end, partner-to-partner electronic business processes.

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

ISM 4943 Internship in Management Information Systems
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 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ISM 6026 Management of Information Systems and Technology
3 sh (may not be repeated for credit)

Provides the M.B.A. student with a contemporary managerial perspective on the effective use of information systems in global organizations through case analyses and class discussions. Topics include the business value of information systems, integration of information systems with enterprise strategy, the use of information systems to achieve organizational redesign for strategic advantage, and applying the processes of leadership and management to information systems planning and implementation. Contains a portfolio project.

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

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

JAP-Japanese Courses

JPN 1120C Japanese I
4 sh (may not be repeated for credit)

For students with no knowledge of Japanese. Lays a foundation for speaking, writing and reading the language.

JPN 1121C Japanese II
4 sh (may not be repeated for credit)
Prerequisite: JPN 1120C

Continuation of Japanese I.

JPN 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

JPN 2200 Japanese III
3 sh (may not be repeated for credit)
Prerequisite: JPN 1121C

Japanese III will strengthen speaking and hearing communication skills. Practice on speed, rhythm and pronunciation will be stressed. In addition, this course will focus on basic writing and reading comprehension skills with new Kanji and vocabulary.

JPN 2201 Japanese IV
3 sh (may not be repeated for credit)
Prerequisite: JPN 2200

Japanese IV will continue building speaking and hearing communication skills developed in Japanese III. Intensive practice on speed, rhythm, and pronunciation will be stressed. In addition, this course will focus on strengthening writing and reading comprehension skills and introduce new Kanji and vocabulary.

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

JPN 3270 Supervised Language Experience Abroad
3 sh (may not be repeated for credit)

Japanese language study in Japan. Two semesters of Japanese or a proficiency in conversational Japanese and permission is required. Meets Multicultural Requirement.

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

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

JOU-Journalism Courses

JOU 2100 Newspaper Reporting
3 sh (may not be repeated for credit)

Principles and procedures in gathering, reporting and writing news and feature articles. Credit may not be received in both JOU 2100 and JOU 3100. Gordon Rule: Writing.

JOU 3300 Feature Writing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Researching and writing feature articles for newspapers, trade journals and general circulation magazines. Includes manuscript preparation and querying of editors for publication. Credit may not be earned in both JOU 3330 and JOU 3300.

JOU 3314 Environmental Reporting
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Focuses on techniques required to research, report and write environmental new stories for newspapers. Students cover an environmental beat during the semester to gain experience with writing about a wide range of issues relating to environmental journalism. The course also examines issues such as reporting ethics, the role of environmental reporters in the community, the history of environmental journalism and utilization of both government databases and the Internet to gain regulatory information for environmental stories. The course explores environmental stories involving public health, public land management, restoration of endangered species, and eco-activism. Permission is required.

JOU 3342 Media Convergence
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Teaches students to report stories simultaneously appearing in print, broadcast and online. Multimedia reporting melds digital technology platforms with traditional reporting skills, ethics and standards.

JOU 3700 Issues in Journalism
3 sh (may be repeated for up to 90.000 sh of credit)

Introduction to major issues challenging news media in today's digital society, including ethics, public perception of the press, the Internet, political pressures, financial viability and standards of press performance.

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

JOU 3940 Practicum: Voyager
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: JOU 2100

Experience in preparing news, opinion and feature material for publication in the student newspaper. Permission is required.

JOU 4181 Public Affairs Reporting
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Principles and procedures involved in reporting and writing news stories about public affairs / government for newspapers, broadcasters and online news services. Permission is required.

JOU 4201 Newspaper Editing
3 sh (may not be repeated for credit)
Prerequisite: JOU 2100

The editing of local and wire copy for newspapers and other publications. Strong emphasis on principles of grammar, punctuation, diction, syntax, and logic. Headline writing, outline writing, news judgment and photo display. Use of standard reference books.

JOU 4213 Newspaper Design
3 sh (may not be repeated for credit)

Principles and practices in newspaper layout and design. Credit may not be received in both JOU 4213 and JOU 4211.

JOU 4306 Writing Critical Reviews
3 sh (may not be repeated for credit)

Devoted to writing reviews of books, film, art, and music. Gordon Rule: Writing.

JOU 4308 Magazine Writing
3 sh (may not be repeated for credit)

Principles and practices in the art of writing for magazines. Focuses on in-depth reporting and refined focus for the magazine market. Gordon Rule: Writing.

JOU 4445 Magazine Publishing
3 sh (may not be repeated for credit)

This class creates, designs and publishes an online magazine focused on the University of West Florida. Students work as an editorial team led by editors from the class. Positions for which students will apply are executive editor, content editors, design editors, copy editors, graphic/photo editors and writers. While all students will produce at least one article for the magazine, each will be assigned additional responsibilities. This editorial team, in a collaborative manner, will explore and uncover interesting UWF subjects for articles, investigate those subjects and then write articles that will be edited and used in creative designs. Permission is required.

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

JOU 6010 Emerging Topics in Media Issues
1.5 sh (may not be repeated for credit)

This course explores the rapidly changing mass media landscape including media convergence. Students investigate numerous forms that industry may take in both its news and entertainment aspects. Particular attention is paid to the potential implications of strategic communication action within emerging media cultures. The course emphasizes critical analysis of media texts and news information cycles through theoretical frameworks in communication.

JOU 6115 Interviewing and Information Gathering
3 sh (may not be repeated for credit)

Provides advanced grounding in how historians, journalists, and qualitative social scientists employ best practices in interviewing and other information seeking to accomplish their objectives.

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

JST-Jewish/Judaic Studies Courses

LAE-Lang Arts English Ed Courses

LAE 3314 Literacy for the Emergent Learner
3 sh (may not be repeated for credit)

Development of pre-service teacher skills and understandings needed for conducting a language arts program at the elementary school level.

LAE 3324 Teaching Language Arts in the Middle and Secondary Schools
3 sh (may not be repeated for credit)

Theory / methodology for teaching language arts / literature at the middle and secondary school level; emphasis on teaching strategies for integrating classroom listening, speaking, reading, and writing activities; includes observation / participation in middle and secondary school settings.

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

LAE 4335 Special Methods in English
4 sh (may not be repeated for credit)

Practical application of theory and methodology to teaching English in secondary schools. Involves a six-week classroom practicum, a twelve-week Writing Lab practicum, unit planning, curriculum building, a teaching presentation, a teaching portfolio, and a research project.

LAE 4464 Young Adult Literature
3 sh (may not be repeated for credit)

Modern works of literature that have demonstrated appeal for adolescents and works written specifically for the age range of 12 to 20 years. The works will be considered in the context of young adult needs: psychological, social and ethical. Designed primarily for education majors.

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

LAE 5345 Teaching Pupils to be Effective Writers
3 sh (may not be repeated for credit)

Designed to assist K-12 teachers to further develop skills and understandings requisite to implementing a successful writing program in the classroom. Emphasis is placed upon provision of a balance between expressive and practical composition opportunities for pupils and upon instructional procedures to assist pupils to develop the strategies and skills that support effective written communication.

LAE 5468 Literature for Children and Young Adults
3 sh (may not be repeated for credit)

Comprehensive survey of literature for children and young adults. Critical analysis and review of the writings of authors and illustrators and how to effectively use their materials in instructional settings. Evaluation and selection of materials based upon the biological, socio-cultural, psychological and developmental characteristics of children and young adults; guidance in their use, emphasizing attitudes, interests, problems, and opportunities of children and young adults in contemporary society. Evaluation, selection, and use of both print and nonprint materials for children; impact of mass media on children and young adults in our society; analysis of attitudes, issues and values reflected in these media and their use in educational settings.

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

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

LAH-Latin American History Courses

LAH 3100 Colonial and Revolutionary Latin America
3 sh (may not be repeated for credit)

Pre-Columbian cultures and interactions of Spanish and English colonial administrative and economic systems; economic, social, intellectual and political efforts of revolution against Spain. Meets Multicultural Requirement.

LAH 3200 Latin America since Independence
3 sh (may not be repeated for credit)

Political, economic and social problems of early nationhood; analysis of revolution, development models, role of the military and international relations. Meets Multicultural Requirement.

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

LAH 6476 Colonial Caribbean
3 sh (may not be repeated for credit)

This class introduces students to the colonial Caribbean as a historically unique region. It begins in 1492 with contact and ends with the emancipation of 1833. We will move rapidly through the century of Spanish hegemony before turning to the British islands as they evolved from frontiers to mature plantation societies. Students will evaluate scholarship and sources in the classroom and in major research projects.

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

LEI-Leisure Courses

LEI 3140 Leisure and Society
3 sh (may not be repeated for credit)

Historical and philosophical foundations of leisure. Examinations of current trends, problems and issues affecting leisure in the United States.

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

LEI 4321 Sport, Adventure and Ecotourism

3 sh (may not be repeated for credit)

Prerequisite: HFT 2000; 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

3 sh (may not be repeated for credit)

Prerequisite: HFT 3003; Completion of 60 hours of college course work is required prior to taking this course.

Examines the relationship between tourism development and host communities. Students study the positive and negative economic, social, environmental and political implications of tourism development. The role of natural and man-made attractions, theme parks, convention and sports facilities as catalysts to tourism development. Issues of community participation in tourism planning and managing the tourism/ community relationships. Upper level status is required.

LEI 4350 Outdoor Leisure

3 sh (may not be repeated for credit)

Survey of issues affecting outdoor leisure in America from a conservation/environmental perspective; and the effective communication of outdoor leisure values. Analysis of leadership skills associated with outdoor leisure activities. Material and supply fee will be assessed.

LEI 4400 Programming and Special Events

3 sh (may not be repeated for credit)

Prerequisite: LEI 3140

Principles of leisure program development and study of program areas, activities, and special events. Analysis of the methods and techniques of program / event design, organization, implementation, and evaluation.

LEI 4905 Directed Study

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

LEI 5905 Directed Study

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

LEI 6905 Directed Study

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

LIN-Linguistics Courses**LIN 2670 Practical Grammar and Usage**

3 sh (may not be repeated for credit)

Review of the basic principles of writing: grammar, usage, diction, syntax and mechanics, emphasizing usage that is "incorrect," "wrong," "substandard," and "inappropriate."

LIN 3673 Practical Grammar for Pre-Professionals

3 sh (may not be repeated for credit)

An upper-division grammar class which focuses on the principles and conventions of writing. The purpose of this course is twofold: to review the regulatory rules of writing so that students can write responsibly by controlling and editing their own work; and to offer students the language choices available to them as speakers and writers of American English: language choices for informal conversations and texting, for instance, versus language choices for academic, business, and other forms of published writing. Because acceptable professional communication is different from some "acceptable" forms of digital communication, the course makes overt distinctions between the two. Whether your goal is to improve your writing, review the mechanics of writing, become a professional editor, or to learn enough grammar to teach it, this course will give you the kind of knowledge about the English language that most educated members of our society share. The principal goal of Practical Grammar is to offer students a review of the principles and rules of standard American English so that they can edit their own documents. As William Strunk, Jr. says in *The Elements of Style*, "One must first know the rules [of grammar] to break them."

LIN 3742 Modern Grammar and Usage

3 sh (may not be repeated for credit)

Grammar of modern English, including traditional; concentration on structural, generative and transformational approaches. Intended for English majors, required of those preparing for careers in secondary education.

LIN 3905 Directed Study

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

LIN 5905 Directed Study

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

LIN 6905 Directed Study

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

LIS-Library Info Studies Courses**LIS 4905 Directed Study**

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

LIS 6905 Directed Study

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

LIT-Literature Courses**LIT 1122 Great Books I**

3 sh (may not be repeated for credit)

Reading / discussion of major literary texts that have shaped Western culture and civilization. General Education: Humanities - Literature. Gordon Rule: Writing.

LIT 1905 Directed Study

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

LIT 2000 Introduction to Literature
3 sh (may not be repeated for credit)

This course is designed for students from all majors who are interested in learning more about reading literature at the college level. A wide range of literary works are examined, with an emphasis on exposing students to as many genres as possible. Critical thinking and writing skills are also emphasized. Students considering a major in English or who enjoy reading good books are encouraged to take this course. General Education: Humanities - Literature. Gordon Rule: Writing. Meets Multicultural Requirement.

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

LIT 3084 Modern Prose Fiction
3 sh (may not be repeated for credit)

Selected prose fiction of 20th century and related criticism.

LIT 3191 World Literature
3 sh (may not be repeated for credit)

Covers a range of topics focusing on non-U.S. literatures. Texts vary each semester according to interest and expertise of the instructor.

LIT 3233 Postcolonial Literature
3 sh (may not be repeated for credit)

Examines world literature produced in the context of colonialism and subsequent movements for independence. Links the study of literature to the political, psychological and cultural effects of imperialism and globalization. Specific topics vary according to faculty expertise and research interests. Meets Multicultural Requirement.

LIT 3463 Literature and Visual Studies
3 sh (may not be repeated for credit)

Examines literature in the context of film, the visual arts, and emerging new media. Emphasis on twentieth century and contemporary literary and aesthetic movements.

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

LIT 4013 The Novel
3 sh (may not be repeated for credit)

The novel as a genre; exploration of the techniques of narrative, characterization, point of view, voice, reflexivity and others. May include texts from diverse national origins.

LIT 4385 Feminist Theory
3 sh (may not be repeated for credit)

This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year. Meets Multicultural Requirement.

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

LIT 5018 Topics in Fiction
3 sh (may be repeated for up to 12.000 sh of credit)

Special topics in fiction. Topics change each term. See department or instructor for specific topic.

LIT 5037 Topics in Poetry
3 sh (may be repeated for up to 12.000 sh of credit)

Special topics in poetry.

LIT 5105 Topics in World Literature
3 sh (may be repeated for up to 12.000 sh of credit)

Generic or thematic topics involving more than one national literature.

LIT 5556 Feminist Theory
3 sh (may not be repeated for credit)

This course offers focused study of both the history of feminist theory and contemporary developments in feminist theory. The course will cover both pre-modern ("proto") and modern ("first-wave") feminist works by women as well as explore contemporary ("second" and "third-wave") feminist theory. Specific course readings will vary from year to year.

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

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

MAA-Mathematics: Analysis Courses

MAA 4211 Advanced Calculus I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313 AND MHF 3202

The theory of functions of a real variable. Inequalities, sequences, rigorous discussion of limits, continuity, differentiability and Riemann integrals. Basic concepts of point set topology on the real line. Gordon Rule: Theoretical Mathematics.

MAA 4212 Advanced Topics in Multi-Variable Calculus
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Differential and integral calculus of functions of several variables. Basic concepts of point set topology on the plane, partial derivatives, chain rule, multiple integrals and their transformations, infinite series, uniform convergence of sequences and series of functions. Gordon Rule: Theoretical Mathematics.

MAA 4402 Analytic Functions
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Offered concurrently with MAA 5404; graduate students will be assigned additional work.

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

MAA 5404 Analytic Functions
3 sh (may not be repeated for credit)

Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Senior standing is required. Offered concurrently with MAA 4402; graduate students will be assigned additional work.

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

MAA 6306 Real Analysis
3 sh (may not be repeated for credit)

A classical real analysis course begins with a typological study of the real number line and includes the Holder and Minkowski inequalities, and other classical inequalities; metric spaces, open and closed sets, convergence, Cauchy sequences, completeness, continuity; normed spaces. The course also includes the Lebesgue integral on the real line, convergence results for sequences of functions. Students are expected to have been exposed to rigorous discussions of limits, continuity, differentiability, Riemann integrals, and basic concepts of point set topology on the real line.

MAA 6426 Complex Analysis
3 sh (may not be repeated for credit)

Several advanced topics in the theory of complex variables are covered including analytic functions, harmonic functions, Cauchy's theorem and integral formula, maximum modulus principle, Laurent series, singularities, and the residue theorem. The course objective is to present in a rigorous manner the parts of the theory that are prominent in applications of the subject.

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

MAC-Mathematics:Calc Precalc Courses

MAC 1105 College Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAT 1033 OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math OR 083 CPT Elemen. Algebra

Provides the concepts and techniques of algebra that are needed to understand subjects such as statistics and economics which contain a considerable amount of quantitative reasoning. Is additionally a preparatory course for the study of calculus. Major topics include: the concept of functions, graphs of functions and relations, operations on functions, rational functions, exponentials and logarithms, systems of equations and inequalities, applications. Prerequisite course or appropriate score on placement test is required. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MAC 1114 Trigonometry
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1140*

Trigonometric functions, their properties and graphs, inverse trigonometric functions, their properties and graphs, trigonometric identities, conditional trigonometric equations; solutions of triangles, vector algebra, parametric equations, polar coordinates, applications. College Algebra or a strong high school algebra background is required. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MAC 1140 Precalculus Algebra
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114* OR 123 PERT Math OR 22 ACT Math OR 520 SAT Math OR 083 CPT Elemen. Algebra

Stresses the aspects of algebra that are important for the calculus sequence. Lays emphasis on graphs in the study of functions and algebraic relations. Covers polynomials; rational functions; logarithmic, exponential, and piecewise defined functions; inequalities; conic sections; matrices; sequences, and series; mathematical induction. Prerequisite course or appropriate score on placement test is required. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MAC 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MAC 2233 Calculus with Business Applications
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105 OR MAC 1114 OR MAC 1140

Sets and functions; derivatives; areas under a curve; integration; exponentials and logarithms; applications of derivatives and integrals. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MAC 2311 Analytic Geometry and Calculus I
4 sh (may not be repeated for credit)
Prerequisite: MAC 1114 AND MAC 1140

Differential and Integral Calculus of Algebraic, Trigonometric, and Transcendental functions of single variables. Related applications. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MAC 2312 Analytic Geometry and Calculus II
4 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Application of the Definite Integral. Hyperbolic and Inverse Trigonometric Functions. Methods of Integration. Sequences and Infinite Series. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MAC 2313 Analytic Geometry and Calculus III
4 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Analytic Geometry and Calculus. Vectors and Vector-Valued Functions. Partial Differentiation. Multiple Integration.

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

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

MAC 3949 Cooperative Education

1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAC 4905 Directed Study

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

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

MAD-Mathematics: Discrete Courses**MAD 3107 Discrete Mathematics and Applications**

3 sh (may not be repeated for credit)

Prerequisite: MHF 3202*

Introductory combinatorics, counting, graphs and trees, and their applications; relations and partial orders; some algorithms associated with applications of graphs, trees, and relations.

MAD 4301 Graphs and Their Application

3 sh (may not be repeated for credit)

Prerequisite: MHF 3202

Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite Graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 5305; graduate students will be assigned additional work.

MAD 4401 Numerical Analysis

3 sh (may not be repeated for credit)

Prerequisite: MAS 3105

Numerical solutions of equations in one variable, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions of initial value and boundary value problems for O.D.E., direct methods for solving linear systems, iterative techniques in matrix algebra. Some problems solved with aid of computer. A computer language is required prior to this course. Gordon Rule: Theoretical Mathematics.

MAD 4605 Coding Theory

3 sh (may not be repeated for credit)

Prerequisite: MAS 3105

Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 5608; graduate students will be assigned additional work.

MAD 4905 Directed Study

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

MAD 5305 Graphs and Their Applications

3 sh (may not be repeated for credit)

Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 4310; graduate students will be assigned additional work.

MAD 5608 Coding Theory

3 sh (may not be repeated for credit)

Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 4605; graduate students will be assigned additional work.

MAD 5905 Directed Study

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

MAD 6405 Numerical Analysis I

3 sh (may not be repeated for credit)

Theoretical treatment of numerical methods of linear algebra supplemented with use of computers; polynomial approximations, uniform approximations, least square approximations, error analysis for numerical solutions of linear equations, algebraic eigenvalue problems.

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

MAE-Mathematics: Education Courses**MAE 3905 Directed Study**

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

MAE 4310 Teaching Mathematics in the Elementary School

3 sh (may not be repeated for credit)

Theory and methods for teaching mathematics in the elementary school; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics. Material and supply fee will be assessed.

MAE 4320 Teaching Mathematics in the Middle and Secondary Schools

3 sh (may not be repeated for credit)

Theory and methods of teaching Mathematics in the middle and secondary schools; explores current research on approaches in teaching and learning mathematics; examines the practice of mathematics, disciplinary core ideas in mathematics, and crosscutting themes in mathematics; compares various models of teaching (i.e. direct instruction, inquiry, project-based learning); Includes practices to effectively move student thinking toward meaningful understanding focusing on best practices in STEM disciplines.

MAE 4657 Mathematics for the 21st Century

3 sh (may not be repeated for credit)

Prerequisite: MAC 2311

Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 5658; graduate students will be assigned additional work.

MAE 4905 Directed Study

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

MAE 5338 Teaching Geometry Concepts in Secondary Education

3 sh (may not be repeated for credit)

For graduate students in mathematics education. Topics include Euclidean and analytic geometry, inductive and deductive reasoning, two- and three-dimensional figures. Admission to Teacher Education and permission is required.

MAE 5658 Mathematics for the 21st Century
3 sh (may not be repeated for credit)

Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 4657; graduate students will be assigned additional work.

MAE 6115C Teaching Mathematics in Elementary Education
3 sh (may not be repeated for credit)

Analysis and evaluation of new programs and practices in teaching elementary school mathematics, including study of effects of these programs on teaching methods and materials; lab experiences including design, field testing and evaluation of activity-oriented lessons in mathematics and development of competence in the use of teaching aids in mathematics instruction; contemporary approaches to teaching elementary mathematics concepts and problem solving; development of competence in the use of alternative assessment techniques. Material and Supply fee will be assessed.

MAE 6361 Teaching Mathematics in Middle Level and Secondary Education
3 sh (may not be repeated for credit)

Prerequisite: EDM 6944* OR ESE 6944*

Assists middle and secondary level teachers to develop theoretical understanding and skills necessary to teach in a manner consistent with current reform efforts in mathematics education. Focuses on components of understanding mathematics teaching and learning: 1) how students learn mathematics; 2) the role of the teacher in delivering effective mathematics lessons. Credit may not be earned in both MAE 6360 and MAE 6361. Material and Supply fee will be assessed.

MAE 6905 Directed Study

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

MAE 8980 Ed. D. Dissertation in Mathematics Education
1-18 sh (may be repeated for up to 18.000 sh of credit)

Major independent research designed especially for candidates in the Ed. D. curriculum and instruction program with specialization in mathematics / statistics; mathematics education. This dissertation will reflect intensive research produced by the student and collaboratively developed with the student's graduate committee. Graded on satisfactory / unsatisfactory basis only. Admission to candidacy and permission of Dissertation advisor is required.

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

MAN-Management Courses

MAN 3025 Management Fundamentals
3 sh (may not be repeated for credit)

Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

Study of principles of management. Process and content of management analyzed. Emphasizes classical, human relations, human resources, behavioral and quantitative management methods. Content includes planning, organizing, leading, control, employment cycle, organization design, and motivation.

MAN 3240 Behavior in Organizations
3 sh (may not be repeated for credit)

Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

A study of human and group behavior in organizations and within society. The focus is on developing student ability to work in group settings and organizations. Topics include personality, motivation, leadership, communication, power, change, and conflict. May not be taken for credit by students having credit INP 3313.

MAN 3301 Human Resources Management
3 sh (may not be repeated for credit)

Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

Introduction to personnel administration; emphasis on the basic personnel function of both the personnel specialist and the operating manager. Critical issues stressed include selection, compensation, OSHA, EEO, unions and discipline.

MAN 3504 Operations Management
3 sh (may not be repeated for credit)

Prerequisite: STA 2023

Application of quantitative and qualitative management techniques for improving quality and efficiency of manufacturing and service organizations. Coverage of productivity, quality, forecasting, design of goods/services, project management and other related topics.

MAN 3550 Introduction to Management Science
3 sh (may not be repeated for credit)

Prerequisite: MAC 2233 AND MAN 3025

Quantitative decision-making methods and their application to planning and control of operations. Systems concept of organization and mathematical reasoning in decision-making emphasized. Cases and incidents provide illustrations. Credit may not be earned in both MAN 3540 and MAN 3550.

MAN 3583 Project Management
3 sh (may not be repeated for credit)

Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

An introduction to the field of Project Management. Covers concepts and skills used to propose, plan, secure resources, budget, manage risk, and lead teams to successful project completion. The course emphasizes the universal nature of the techniques which enable individuals to manage a variety of projects in diverse organizational settings. Students individually develop project plans for projects in their respective disciplines.

MAN 3802 Small Business/Family Business Management
3 sh (may not be repeated for credit)

Prerequisite: ACG 2071 AND ECO 2023 AND MAN 3025 AND MAR 3023

Introduces the student to the world of small business and family business management. Explores the managerial processes related to these areas and differentiates them from those found in corporations and large organizations. Provides the student with an opportunity to analyze the mind of the small business manager, brainstorm potential business options, and consider various contemporary issues facing the small business manager. Group projects will be utilized and oral and written reports will be required.

MAN 3905 Directed Study

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

MAN 3949 Cooperative Education

1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAN 4102 Management of Diversity

3 sh (may not be repeated for credit)

Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 5116; graduate students will be assigned additional work. Meets Multicultural Requirement.

MAN 4280 Business Leadership and Change Management

3 sh (may not be repeated for credit)

Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.

A course on Leadership and Change Management to prepare students to respond to the needs of a dynamic global business climate.

Prepares students to take responsibility to work collaboratively with others in developing change management strategies in bringing about change and overcoming resistance.

MAN 4330 Compensation and Benefits

3 sh (may not be repeated for credit)

Prerequisite: MAN 3301

Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization's strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 5331; graduate students will be assigned additional work.

MAN 4350 Staffing, Training, and Development

3 sh (may not be repeated for credit)

Prerequisite: MAN 3301

Employees are commonly recognized as an organization's most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines the best practices in staffing, training and development so that students may learn how to establish and effectively manage both staffing systems and training and development programs. Offered concurrently with MAN 5351; graduate students will be assigned additional work.

MAN 4441 Business Negotiation

3 sh (may not be repeated for credit)

Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 5446; graduate students will be assigned additional work.

MAN 4570 Purchasing and Supply Management

3 sh (may not be repeated for credit)

Prerequisite: MAR 3202

Students will learn the fundamental concepts of purchasing, negotiation and supply management. Emphasis is placed on strategic sourcing, negotiation, cost management, balanced scorecards, ethics, electronic purchasing, forming supplier partnerships and managing supplier quality. The class will provide strategic understanding for the organizational buyer and challenge students with practical examples of purchasing situations relevant within the supply chain. Offered concurrently with MAN 5573; graduate students will be assigned additional work.

MAN 4597 Global Logistics Management

3 sh (may not be repeated for credit)

Prerequisite: MAR 3202

This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility operations, raw material and finished goods movement across borders, and equipment and technology for global logistics. Offered concurrently with MAN 5619; graduate students will be assigned additional work.

MAN 4720 Policy Analysis and Formulation

3 sh (may not be repeated for credit)

Prerequisite: FIN 3403 AND MAN 3025 AND MAN 3504 AND MAR 3023

Aggregate planning and development of overall policy for organizations. Emphasizes the system interrelationship of the functional areas of enterprise from the viewpoint of top executives. Senior status and permission is required.

MAN 4750 The Future: Projecting, Planning and Managing

3 sh (may not be repeated for credit)

Roles that individuals and organizations have in managing the future. Senior status is required; business majors only.

MAN 4801 Business Plan Development for New Ventures

3 sh (may not be repeated for credit)

Prerequisite: BUL 3130 AND FIN 3403 AND MAN 3025 AND MAR 3023

Students working in teams will brainstorm potential business options and develop a business plan to serve as a strategic roadmap for the proposed venture as well as the basis for seeking financial support from lenders and / or investors. Business plans will be presented to a jury of practitioners who will evaluate its practical merits and the presentation. Group projects will be utilized and oral and written reports will be required.

MAN 4905 Directed Study

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

MAN 4940 Internship in Management

1-6 sh (may not be repeated for credit)

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

On an "as available" basis, management majors may request an internship in management by submitting written proposals to faculty advisors. Proposals must be approved by advisor, chairperson and sponsor. Students must have a 2.5 GPA overall and a 3.0 GPA in management to be eligible for internships. All internships include seminar on internship experience, including written reports. Graded satisfactory / unsatisfactory basis only. Senior status required. Permission is required.

MAN 5116 Management of Diversity

3 sh (may not be repeated for credit)

Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles are provided. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 4102; graduate students will be assigned additional work. All majors encouraged. Graduate student status is required. Credit may not be earned in both MAN 5105 and MAN 5116.

MAN 5331 Compensation and Benefits

3 sh (may not be repeated for credit)

Compensation and benefits play an important role in attracting, motivating, and retaining employees. This course examines how to establish and manage effective compensation and benefits systems that support the organization's strategic direction while also meeting employee needs and complying with legal requirements. Offered concurrently with MAN 4330; graduate students will be assigned additional work.

MAN 5351 Staffing, Training, and Development

3 sh (may not be repeated for credit)

Employees are commonly recognized as an organization's most valuable resource. Thus, effectively staffing an organization is one of the most critical managerial responsibilities. This course examines the best practices in staffing, training and development so that students may learn how to establish and effectively manage both staffing systems and training and development programs. Offered concurrently with MAN 4350; graduate students will be assigned additional work.

MAN 5446 Business Negotiation

3 sh (may not be repeated for credit)

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 4441; graduate students will be assigned additional work.

MAN 5573 Purchasing and Supply Management

3 sh (may not be repeated for credit)

Students will learn the fundamental concepts of purchasing, negotiation and supply management. Emphasis is placed on strategic sourcing, negotiation, cost management, balanced scorecards, ethics, electronic purchasing, forming supplier partnerships and managing supplier quality. The class will provide strategic understanding for the organizational buyer and challenge students with practical examples of purchasing situations relevant within the supply chain. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4570; graduate students will be assigned additional work.

MAN 5619 Global Logistics Management

3 sh (may not be repeated for credit)

This course explores logistics and supply chain operations from a global perspective. Course material and experiences will focus on import and export processes, port and logistics facility operations, raw material and finished goods movement across borders, and equipment and technology for global logistics. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with MAN 4597; graduate students will be assigned additional work.

MAN 5806C Small Business Management Consulting

3 sh (may not be repeated for credit)

Practicum in providing management assistance to small businesses in area. Usually students work in pairs and provide assistance to two business firms. Weekly meetings, teaching in consulting and final written report on each firm constitute principal elements. Senior or graduate status, 3.0 GPA and permission are required.

MAN 5905 Directed Study

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

MAN 6156 Management and Organizational Behavior

3 sh (may not be repeated for credit)

Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.) and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. May not be taken for credit by students having credit for INP 6397. Permission is required.

MAN 6511 Operations Management Problems

3 sh (may not be repeated for credit)

Planning and control of domestic and multinational service and manufacturing operations utilizing information inside and outside the organization. Techniques to plan and improve location, layout, flow through the facility, design of work, and management of the human factor; all with an emphasis on management and maintenance of quality. Contains a portfolio project.

MAN 6721 Strategic Management and Policy Formulation
3 sh (may not be repeated for credit)

Utilizes case analysis, a strategic simulation and other related experiential exercises. Integrates and applies the various business management functions from the strategic viewpoint of the organizational chief executive officer. Designed for M.B.A. candidates and should be taken the last semester before graduation. Permission is required.

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

MAP-Mathematics: Applied Courses

MAP 2302 Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Introduction to ordinary differential equations; emphasis on linear equations, operator methods, systems of equations. Applications. Gordon Rule: Theoretical Mathematics.

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

MAP 4115 Introduction to Stochastic Processes
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312

General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal Theory, Branching processes, Queuing systems, applications to quality control. Offered concurrently with MAP 5116; graduate students will be assigned additional work. Gordon Rule: Applied Mathematics.

MAP 4341 Partial Differential Equations
3 sh (may not be repeated for credit)
Prerequisite: MAP 2302

First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. Offered concurrently with MAP 5345; graduate students will be assigned additional work. Gordon Rule: Theoretical Mathematics.

MAP 5116 Introduction to Stochastic Processes
3 sh (may not be repeated for credit)

General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal theory, Branching processes, Queuing systems, applications to quality control. Offered concurrently with MAP 4115; graduate students will be assigned additional work.

MAP 5345 Partial Differential Equations
3 sh (may not be repeated for credit)

First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 4341; graduate students will be assigned additional work.

MAP 5471 Advanced Probability and Inferences
3 sh (may not be repeated for credit)

Advanced topics in probability, limit theorems, limiting distributions, order statistics, weak law of large numbers, strong law of large numbers, central limit theorem. Advanced topics in point and interval estimation, measures of quality of estimates, Exponential families, Completeness, Unbiasedness, Cramer-Rao inequality, Rao-Blackwell theorem, minimum variance unbiased estimators, maximum likelihood estimators principles, Bayes' and minimax estimation, Robust estimation; Advanced hypothesis testing.

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

MAP 6106 Mathematical Methods of Operations Research I
3 sh (may not be repeated for credit)

Mathematical linear programming models, theory of simplex method, revised simplex methods, dual simplex methods; duality theory and sensitivity analysis, transportation problems, theory of integer programming. Credit may not be received for both MAP 6106 and STA 6607.

MAP 6107 Mathematical Methods of Operations Research II
3 sh (may not be repeated for credit)

Interior-point algorithm, linear goal programming, game theory, nonlinear programming, network analysis, PERT / CPM, queuing theory. Credit may not be received in both MAP 6107 and STA 6608.

MAP 6108 Mathematical Modeling and Initial and Boundary Value Problems
3 sh (may not be repeated for credit)

Methodology and framework for mathematical modeling. Current topics in applied mathematics will be presented emphasizing the interdependency of mathematics and its applications to physical, societal and other "real world" phenomena.

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

MAR-Marketing Courses

MAR 3023 Marketing Fundamentals
3 sh (may not be repeated for credit)

Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

Function of marketing in our economic system; role of the consumer in marketing decisions; the decisions marketing managers must make to provide goods and services priced, promoted and distributed to meet organizational objectives in changing environments.

MAR 3202 Supply Chain Logistics Management
3 sh (may not be repeated for credit)

Presents the fundamental elements of integrated supply chain and logistics management. It examines the strategic and operational decisions necessary to plan, implement, and control the procurement, storage, management, and distribution of materials, components, and finished goods. Emphasis is placed on product, service, information, and financial flows as facilitated by supply chain logistics strategies, transportation and distribution center operations, facility and network design, inventory and order management, customer service, information execution systems, and outsourcing decisions.

MAR 3370 Information Sources for Business Decisions
3 sh (may not be repeated for credit)

Focuses on various secondary information sources that may be used for business decisions. Students learn how secondary information is organized, what types of secondary information sources are available and how these sources may be effectively and efficiently searched. Emphasis is placed on learning the types of online information services and knowledge of when to use which service. A course project is designed to teach students to evaluate, integrate, and report information. A valuable tool in helping students access information; should be taken early in the junior year if possible. Students will be expected to have some familiarity with Windows and the Internet.

MAR 3503 Consumer Behavior
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023

The study of people as customers of business - how they think and feel when making purchase choices and how they behave in the marketplace. Draws from theory in marketing, social psychology, anthropology, economics, and other social sciences to describe how customers respond to marketing strategies. Emphasis on how to use this in-depth understanding of the market to create winning marketing and business strategy.

MAR 3714 Sports Markets
3 sh (may not be repeated for credit)
Prerequisite: ((ECO 2013 AND ECO 2023)) AND (ECO 3003 OR MAR 3023)

Systematic study of the spectator sports industry. The role and importance of the commercial sector is a particular emphasis. Focus on the structure and characteristics of sports markets and how to develop them with sports marketing.

MAR 3860 Customer Relationship Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Understanding the needs, desires and behavior of customers often determines which company will survive. Customer Relationship Management (CPM) is doing business through one-to-one relationships using new technological advances created by the information revolution. Focuses on customer development and retention, particularly for the firm's best customers, with emphasis on the management of customer relationships.

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

MAR 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.000 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

MAR 4156 Seminar in International Marketing
3 sh (may not be repeated for credit)
Prerequisite: GEB 4361

Emphasis on the emergence of a global marketplace and significant new challenges facing business management in a competitive and rapidly changing international environment. Stresses the problems and challenges that differences in cultural, political, and socioeconomic environments introduce into the marketing process in international operations. Main focus is on the European Union, broadly interpreted to include countries throughout Europe. Foreign competitors and their effects on the American market will also be explored. Meets Multicultural Requirement.

MAR 4231 Retail Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Instruction in beginning a successful management career in retailing. The retail firm is presented as an integral part of the overall supply chain with emphasis on entrepreneurial and small business retail strategy and operations applicable to a wide variety of industries. Focus is on equipping students with knowledge and skills necessary to create realistic and successful retail strategy.

MAR 4324 Integrated Marketing Communications: Principles
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Examines the principles of advertising, sales promotion, and related tools within the context of the overall marketing communications program. Focuses on the relationship of advertising, sales promotion, and other tools to marketing plans, the different types of strategic and tactical methods which can be employed, and the evaluation of the overall campaign.

MAR 4403 Sales Management
3 sh (may not be repeated for credit)

Analysis of the manager's role in sales force management and related organizational environments. Getting results through others by planning, organizing, staffing, directing, controlling, and motivating employees to achieve the organization's objectives. The process of attaining influence, recognition, and power in an organization.

MAR 4412 Professional Selling Methods
3 sh (may not be repeated for credit)

Analysis of professional selling methodology including communication, persuasion, negotiation, and salesmanship. Evaluation of these principles in both business and social environments. Credit may not be received in both MAR 4412 and MAR 4701.

MAR 4613 Marketing Research
3 sh (may not be repeated for credit)
Prerequisite: MAR 3023 AND STA 2023

Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 5616; graduate students will be assigned additional work.

MAR 4721 Internet Marketing Principles

3 sh (may not be repeated for credit)

Prerequisite: MAR 3023

Examines the principles of Internet Marketing in the context of an integrated marketing program. Internet marketing strategies and tactics will be examined in order to implement business operations on the Internet. Students will be exposed to Web design packages and techniques useful in the development of Internet Marketing Web sites.

MAR 4728 High Tech Product Marketing Strategy

3 sh (may not be repeated for credit)

Prerequisite: MAR 3023

Emphasizes issues associated with marketing high-technology products in an environment of rapid technological change and ever increasing market demands, and focuses on the strategic decisions related to the development, pricing, distribution, and promotion of technology-based products.

MAR 4803 Marketing Strategy

3 sh (may not be repeated for credit)

Prerequisite: FIN 3403 AND MAR 3503

The integrative capstone experience for all marketing program specializations. Instructional focus is on blending knowledge gained in previous marketing and other business course work with advanced analysis skills in a strategic decision-oriented environment. Course relies primarily on case analysis as an instructional method. Should be taken in the last semester of the student's program of study.

MAR 4841 Services Marketing

3 sh (may not be repeated for credit)

Prerequisite: MAR 3023

The US, as well as much of the world economy, is dominated by services. Service organizations such as banks, transportation companies, hotels, educational institutions, and consulting firms require a distinctive approach to marketing--both in its development and execution. This course will build and expand on ideas from Marketing Fundamentals and other marketing courses to address the distinct needs and challenges of managing services and delivering quality service to customers. Credit may not be received in both MAR 4841 and MAR 4842.

MAR 4905 Directed Study

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

MAR 4941 Marketing Internship

1-6 sh (may not be repeated for credit)

Prerequisite: MAR 3023

Supervised field practicum in marketing-related position. May include activities in any one or more functional areas of marketing (research, sales, advertising, promotion, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major courses and permission are required.

MAR 5905 Directed Study

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

MAR 6815 Marketing Management

3 sh (may not be repeated for credit)

Creation of enduring and mutually satisfactory customer relationships through the provision of customer value as an enterprise management philosophy. With consideration given to operating environments, the course is designed to teach the formulation, implementation, and control of comprehensive marketing strategy with emphasis on the integrative aspects of the marketing function in a market based enterprise. Both qualitative and quantitative analyses are used in an applications oriented context. Contains a portfolio project.

MAR 6905 Directed Study

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

MAS-Math: Algebraic Structures Courses**MAS 3105 Linear Algebra**

3 sh (may not be repeated for credit)

Prerequisite: MAC 2312

Systems of linear equation, row echelon form, matrix algebra, determinants and their properties, vector spaces, linear independence, base and dimension, row and column spaces, linear transformations and their matrix representations, similarity, inner product and orthogonality, eigenvalues and eigenvectors, diagonalization, applications of linear algebra. Gordon Rule: Theoretical Mathematics.

MAS 3905 Directed Study

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

MAS 4156 Vector Analysis

3 sh (may not be repeated for credit)

Prerequisite: MAC 2313

Vector algebra and calculus; line, surface and volume integrals, theorems of Green, Gauss and Stokes. Gordon Rule: Theoretical Mathematics.

MAS 4203 Number Theory

3 sh (may not be repeated for credit)

Prerequisite: MHF 3202

Divisibility properties of integers, number-theoretic functions, Diophantine equations, theory of congruences and topics in cryptography. Gordon Rule: Theoretical Mathematics.

MAS 4301 Abstract Algebra

3 sh (may not be repeated for credit)

Prerequisite: MHF 3202

Concepts of basic algebraic structures, set, group, ring, integral domain and field. Gordon Rule: Theoretical Mathematics.

MAS 4905 Directed Study

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

MAS 5145 Matrix Theory

3 sh (may not be repeated for credit)

Canonical forms of matrices, similarity, quadratic forms.

MAS 5905 Directed Study

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

MAS 6905 Directed Study

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

MAT-Mathematics Courses

MAT 1033 Intermediate Algebra
4 sh (may not be repeated for credit)

Provides preparation in the elements of algebra that are required for higher mathematics and statistics courses. Covers basic principles and techniques of the following topics: factoring algebraic expressions, manipulation of algebraic fractions, radicals and exponents; complex numbers, linear, quadratic and rational equations, systems of linear inequalities and their graphical representation, introduction to functions. College preparatory algebra or appropriate score on placement test is required prior to taking this course.

MAT 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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

MAT 4500 Undergraduate Proseminar in Mathematics/Statistics
1 sh (may not be repeated for credit)

Each senior (except students with the secondary track specialization) shall, under the supervision of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education. The student shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students with an opportunity to integrate the experience and knowledge they have gained during their undergraduate studies. Graded on satisfactory/unsatisfactory basis only. Senior standing and permission is required.

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

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

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

MAT 6930 Proseminar in Mathematics
1 sh (may not be repeated for credit)

Each M.A. or M.A.T. candidate (except those who choose the thesis option) shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics / statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his / her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory / unsatisfactory basis only. M.A. candidacy and permission is required.

MAT 6971 Thesis
1-6 sh (may be repeated for up to 8.000 sh of credit)

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

MCB-Microbiology Courses

MCB 1000 Fundamentals of Microbiology
3 sh (may not be repeated for credit)

An introductory microbiology course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. General Education: Natural Sciences - Lecture.

MCB 1000L Fundamentals of Microbiology Laboratory
1 sh (may not be repeated for credit)

Prerequisite: MCB 1000*

An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. The lab will focus on basic microbiological techniques relating to isolating, growing, and identifying medically significant microorganisms. Laboratory exercises include microscopy and staining techniques; asepsis and culturing of microorganisms; appropriate handling techniques, including sterilization and disinfection; and methods of enumeration and identification of bacteria. Emphasis will be placed on those concepts and methods that are significant in the medical setting. Material and supply fee will be assessed. General Education: Natural Sciences - Laboratory.

MCB 3020 Microbiology
3 sh (may not be repeated for credit)

Prerequisite: (BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)) AND (CHM 2210)

Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment.

MCB 3020L Microbiology Laboratory
1 sh (may not be repeated for credit)

Prerequisite: MCB 3020*

Microbial morphology, physiology, and taxonomy; relationships of microorganisms to total environment. Material and Supply Fee will be assessed.

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

MCB 4276 Epidemiology of Infectious Disease
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 5273; graduate students will be assigned additional work.

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

MCB 5273 Epidemiology of Infectious Disease
3 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 4276; graduate students will be assigned additional work.

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

MCB 6905 Directed Study
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
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. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MGF 1107 Mathematics for Liberal Arts II
3 sh (may not be repeated for credit)

Presents topics that supplement those in MGF 1106 needed by elementary teachers. Intended for students in elementary education. Major topics: number sets and properties, number theory, geometry, measurement, graphs--all taught within a problem solving approach. General Education: Mathematics - Theoretical. Gordon Rule: Theoretical Mathematics.

MHF-Math: Hist Foundations Courses

MHF 3202 Set Theory and Mathematical Logic
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312*

Basic set theory, propositional calculus, predicate calculus, methods of mathematical proof. Gordon Rule: Theoretical Mathematics.

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

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

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

MKA-Marketing Applications Courses

MLS-Medical Laboratory Science Courses

MLS 3031 Introduction to Clinical Laboratory Science
2 sh (may not be repeated for credit)

Survey course in clinical laboratory sciences. Introduction to the profession, scope of practice, state/federal laws and regulations, code of ethics, and career opportunities. Classroom instruction and field trips to various sections in a clinical laboratory: hematology, clinical chemistry, diagnostic microbiology, immunohematology, serology, and molecular diagnostics.

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

MLS 4191 Molecular Diagnostics
1 sh (may not be repeated for credit)
Prerequisite: MLS 4625 AND MLS 4630
Co-requisite: MLS 4191L

This course offers fundamentals of clinical diagnosis and management of disease by molecular biology laboratory methods. Two broad areas in the current state of the art will be addressed: molecular diseases/variants and molecular methods to diagnose and monitor disease. Disorders due to inherited or acquired molecular defects such as errors of metabolism, hemoglobinopathies, leukemia, and cystic fibrosis are discussed. Principles and procedures for the diagnosis and management of infectious diseases by molecular methods are also included. The discussion of molecular approaches to diagnosing and monitoring these diseases will span the conventional methods of PCR, gel electrophoresis and Southern Blotting to semi-automated methods of TMA, LCR and Real-time PCR. A survey of molecular diagnostic methods currently available in various sections of a clinical laboratory is included. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4191L Molecular Diagnostics Laboratory
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 PCR, electrophoresis for DNA and proteins, densitometry, Southern Blot and Western Blot techniques. Material and Supply fee will be assessed. Permission is required.

MLS 4220 Urinalysis/Body Fluids I
1 sh (may not be repeated for credit)
Co-requisite: MLS 4220L

Teaches the entry level clinical laboratory scientist the physiology, routine testing and interpretation for the following body fluids: urine, cerebrospinal fluid, semen, sweat, serous fluids (peritoneal, pleural, pericardial, synovial), and dialysates. Correlation of lab findings to various disease conditions is stressed. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4220L Urinalysis/Body Fluids I
1 sh (may not be repeated for credit)
Co-requisite: MLS 4220

Corresponding Lab for Urinalysis / Body Fluids I.

MLS 4305 Hematology I

3 sh (may not be repeated for credit)

Prerequisite: PCB 2131

Co-requisite: MLS 4305L

Study of production, maturation and morphology of normal and abnormal human blood cells. Pathological changes in morphology, cytochemistry and distribution of cells in peripheral blood and bone marrow. Manual and automated methods for blood cell counts, hemoglobin measurement and other hematology parameters. Purpose, principle and clinical value of routine and special procedures. Quality control and quality assurance processes in a clinical hematology laboratory. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4305L Hematology I Lab

1 sh (may not be repeated for credit)

Co-requisite: MLS 4305

Corresponding lab for Hematology I.

MLS 4334 Hemostasis and Thrombosis

1 sh (may not be repeated for credit)

Co-requisite: MLS 4334L

Role of blood vessels, platelets and coagulation factors in normal hemostasis. Platelet morphology and function, laboratory tests for evaluation of platelets, and platelet disorders. Study of coagulation factors, coagulation pathways, and inherited and acquired coagulation disorders. Normal fibrinolysis and disorders of fibrinolysis. Physiologic and pathologic coagulation inhibitors and their role in normal and abnormal hemostasis. Diagnosis and management of hemorrhagic diseases. Thrombotic disorders and their management by anticoagulant therapy and fibrinolytic therapy. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4334L Hemostasis and Thrombosis Lab

1 sh (may not be repeated for credit)

Co-requisite: MLS 4334

Corresponding lab for Hemostasis and Thrombosis.

MLS 4460 Diagnostic Microbiology I

3 sh (may not be repeated for credit)

Prerequisite: MCB 3020/L

Co-requisite: MLS 4460L

Study of bacteria associated with infectious diseases. Includes microbial taxonomy, physiology, genetics and host-parasite relationships as they apply to clinical microbiology. Pathogens of particular organ systems, pathogenesis of infectious disease, clinical manifestations, etiology and epidemiology of disease are covered. Interpretation of test results and clinical relevance are taught utilizing case studies. Permission is required. Equipment Fee will be assessed.

MLS 4460L Diagnostic Microbiology I Laboratory

1 sh (may not be repeated for credit)

Prerequisite: MCB 3020/L

Co-requisite: MLS 4460

Methods for specimen collection, handling and processing of human tissues and body fluids for isolation and identification of bacteria. Conventional and rapid identification methods for clinically significant bacteria, principles of automation, susceptibility testing, infection control, and quality assurance procedures are included. Material and supply fee will be assessed. Permission is required.

MLS 4462 Medical Microbiology

3 sh (may not be repeated for credit)

Prerequisite: MCB 3020/L

Co-requisite: MLS 4462L

Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4462L Medical Microbiology Lab

1 sh (may not be repeated for credit)

Co-requisite: MLS 4462

Corresponding lab for Medical Microbiology.

MLS 4505 Serology

1 sh (may not be repeated for credit)

Co-requisite: MLS 4505L

Diagnostic tests by clinical immunology and serology methods. Principles and practical applications of laboratory methods based on the detection of specific and non-specific immune responses to foreign or autologous antigens. Traditional serological methods for diagnosis of bacterial, viral, and fungal organisms. Latest immunological and molecular methods for detection and confirmation of HIV, hepatitis, HTLV, chlamydia, rubella and other significant pathogens. Lab methods for diagnosis of SLE and other autoimmune diseases. Basics of hypersensitivity reactions and transplantation immunology. Material and Supply Fee will be assessed to corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4505L Serology Lab

1 sh (may not be repeated for credit)

Co-requisite: MLS 4505

Corresponding lab for Serology.

MLS 4550 Immunohematology I

3 sh (may not be repeated for credit)

Co-requisite: MLS 4550L

Fundamentals of blood group immunology. Pre-transfusion testing of patient blood and donor blood for compatibility. Antigens, antibodies and their properties in clinically significant blood group systems. ABO & RH typing, compatibility testing and special tests. Antibody screen and identification. Autoimmune Hemolytic Anemia and Hemolytic Disease of the Newborn. Transfusion therapy, hazards of transfusion and investigation of transfusion reactions. Donor selection, collection of donor blood and testing for infectious agents. Preparation, storage and utilization of blood components. Regulations, medico-legal and ethical aspects of transfusion services. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4550L Immunohematology I Lab

1 sh (may not be repeated for credit)

Co-requisite: MLS 4550

Corresponding lab for Immunohematology I.

MLS 4625 Clinical Chemistry I
2 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: MLS 4625L

Introduction to the basic principles and procedures of clinical chemistry. Lecture and lab devoted to chemical analysis of blood and other body fluids. Lab safety, specimen collection/handling/storage; lab mathematics, basic lab instrumentation and automation, data management, reference range determination and quality control monitoring will be stressed throughout the course. This class will discuss the pathophysiology and diagnostic testing related to the metabolism of carbohydrates and lipids, assessments of diabetes and diabetic risk, assessments of cardiac risk and monitoring and prognosis following myocardial infarction. Methodologies discussed include spectrophotometry, immunodiagnosics and computer generated analyses. Students will participate in class discussions about recent research in clinical chemistry which will be presented in the forms of abstracts, research papers and figures. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4625L Clinical Chemistry I Lab
1 sh (may not be repeated for credit)
Co-requisite: MLS 4625

Lab devoted to the chemical analysis and interpretation of blood and other bodily fluids. Selected experiments in diabetes and cardiovascular disease risk assessment and monitoring. Safety, instrumentation and quality control will be stressed. Methodologies discussed include spectrophotometry, immunodiagnosics, and computer generated analyses. Material and Supply fee will be assessed. Permission is required.

MLS 4630 Clinical Chemistry II
2 sh (may not be repeated for credit)
Prerequisite: MLS 4625/L
Co-requisite: MLS 4630L

This course continues where Clinical Chem I left off, discussing kidney function, electrolytes, blood gases, acid-base balance, mineral metabolism, enzyme measurement, liver function studies, and pancreatic function assessment. It also includes the more esoteric tests involved in testing endocrine function, therapeutic drug monitoring, toxicology, tumor markers, and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Reading and disseminating research in the discipline is emphasized in the format of a journal club. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4630L Clinical Chemistry II Lab
1 sh (may not be repeated for credit)
Prerequisite: MLS 4625/L
Co-requisite: MLS 4630

This course covers laboratory procedures evaluating kidney and liver function, electrolytes, acid-base balance, mineral metabolism, enzyme measurements, toxicology and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Material and Supply fee will be assessed. Permission is required.

MLS 4705 Special Clinical Topics
1 sh (may not be repeated for credit)

Fundamentals of clinical laboratory management, supervision and educational methodologies are covered. Students are introduced to clinical laboratory operations in areas of financial and human resource management, marketing of laboratory services, communications with other health care professionals, laboratory information systems and regulatory compliance with applicable regulatory agencies. Other special clinical topics related to education and training, lab safety, HIV / AIDS, prevention of medical errors, professional ethics and career planning are presented.

MLS 4820L Clinical Chemistry III
4 sh (may not be repeated for credit)
Prerequisite: MLS 4625 AND MLS 4630

Application of clinical chemistry principles and techniques presented in Clinical Chemistry I and II. Supervised practice in the hospital laboratory. Permission is required.

MLS 4821L Diagnostic Microbiology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4460 AND MLS 4462

Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MLS 4822L Hematology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4305/L

Application of Hematology I. Advanced practical training in automated hematology instrumentation, routine and special procedures in hematology lab, and practice of quality control methods, maintenance and trouble shooting of clinical hematology equipment. Training includes all aspects of clinical lab medicine in a modern hematology / coagulation lab and prepares the student to assume responsibility as a medical technologist. Permission is required.

MLS 4823L Immunohematology II
4 sh (may not be repeated for credit)
Prerequisite: MLS 4550/L

Continuation of Immunohematology I, at one of the affiliate hospitals. Advanced practical training in modern blood banking and transfusion services at the hospital. Training includes practice and performance, under supervision, of all the procedures involving pre-transfusion tests on patient's blood, selection of donor blood, compatibility determination, problem solving, release of suitable blood/blood components for transfusion therapy. Permission is required.

MLS 4824L Special Clinical Methods
2 sh (may not be repeated for credit)

Supervised practice in a hospital laboratory. Special methods in clinical laboratory sciences, including non-routine (special) chemistry procedures and methods in immunodiagnosics, mycobacteriology and clinical mycology. Permission is required.

MLS 4825L Urinalysis/Body Fluids II
2 sh (may not be repeated for credit)

Supervised practice in a hospital laboratory in the analysis of urine and other body fluids; techniques in parasitology and phlebotomy procedures. Permission is required.

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

MMC-Mass Media Communications Courses

MMC 2000 Principles of Mass Communication
3 sh (may not be repeated for credit)

Principles, issues, organizations and functions of film, radio, television, print and other media of mass communication. Consideration of current practices and recent developments and their implications for the future direction of mass media. General Education: Social Science - Socio-Political Perspectives.

MMC 3261 Computer Mediated Communication
3 sh (may not be repeated for credit)

Examination of theoretical and practical issues emerging from the use of the Internet as a communication medium. Focus is on the legal, social, and ethical problems arising from the use of computers in communication. Students also acquire skills in creating content for the Web, and in critical analysis of Web sites. Applications of the Web for advertising, public relations and journalism are discussed. Basic familiarity with computer use and operating systems is required. Credit may not be received in MMC 3261 and MMC 3261C.

MMC 3601 Minorities and the Mass Media
3 sh (may not be repeated for credit)

Concerns of mass media as they pertain to minority issues; review of mass media portrayals of minorities; problems of minority access to mass media; prospects for mass media and cultural diversity in the 21st Century. Meets Multicultural Requirement.

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

MMC 4201 The Constitution and the Press
3 sh (may not be repeated for credit)

Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions.

MMC 4203 Media Ethics
3 sh (may not be repeated for credit)

Introduces students to classical ethical philosophies; presents various ethical decision-making strategies; application of ethical models to information-gathering and dissemination dilemmas; helps students form an ethical framework for future positions of responsibility in mass media industries; introduces students to the case method of instruction.

MMC 4252 Media Sales
3 sh (may not be repeated for credit)

The convergence of new and old technologies will redefine past concepts of the media. In this new, digital, interactive, high-cost, highly fragmented, and highly competitive media world, generating revenue is a top priority for survival. Sales people and sales managers have become more important to the media industry. Introduces students to the principles of media selling and sales management and prepares them for media selling and sales management jobs at a time when media companies are cutting back in almost every area except sales, where jobs are actually increasing.

MMC 4300 Global Communication
3 sh (may not be repeated for credit)

Study of comparative mass media systems (telecommunication, film and print media) and related problems and issues of culture, national development, foreign policy, national sovereignty, regulation and policy, information flow, propaganda, human rights and global trends in telecommunication. Offered concurrently with MMC 5306; graduate students will be assigned additional work. Senior standing is required. Meets Multicultural Requirement.

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

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

MSL-Military Sci Leadership Courses

MSL 1001 Foundations of Officership
1 sh (may not be repeated for credit)

Introduces freshmen-level students to issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values. Additionally, "life skills" including fitness and time management are addressed. Designed to give the student accurate insight into the Army profession and the officer's role within the Army. Material and supply fee will be assessed.

MSL 1002 Basic Leadership
1 sh (may not be repeated for credit)

Establishes foundation of basic leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting, techniques for improving listening and speaking skills, and an introduction to counseling. Material and supply fee will be assessed.

MSL 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MSL 2101 Individual Leadership Studies
2 sh (may not be repeated for credit)

Designed to develop cadet's knowledge of self, self-confidence, and individual leadership skills. Cadets develop problem solving and critical thinking skills, and apply communication, feedback and conflict resolution skills through experiential learning activities. Material and supply fee will be assessed.

MSL 2102 Leadership and Teamwork
2 sh (may not be repeated for credit)

Study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process, and obtaining team buy-in through immediate feedback. Material and supply fee will be assessed.

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

MSL 3201C Tactical Leadership
3 sh (may not be repeated for credit)

Challenges students to study, practice, and evaluate adaptive leadership skills as presented with the demands of preparing for the ROTC Leadership Development and Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills. Students receive systematic and specific feedback on leadership abilities and begin to analyze and evaluate their own leadership values, attributes, skills, and actions. Material and Supply Fee will be assessed. Permission is required.

MSL 3202C Applied Leadership
3 sh (may not be repeated for credit)
Prerequisite: MSL 3201C

Uses increasingly intense situational leadership challenges to build student awareness and skills in leading tactical operations. Builds on the lessons learned in MSL 3201C by increasing the size and scope of the student's management responsibilities. Students also learn to communicate using military briefings and by writing military orders. Emphasis is placed in exploring, evaluating, and developing skills in decision making, persuading, and motivating team members. Material and Supply Fee will be assessed. Permission is required.

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

MSL 4301C Developmental Leadership
3 sh (may not be repeated for credit)
Prerequisite: MSL 3201C AND MSL 3202C

Develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff and providing leadership, and performance feedback to underclassmen. Students are provided situational opportunities to assess risk, make ethical decisions, and provide coaching to fellow students. Permission is required. Material and Supply Fee will be assessed.

MSL 4302C Leadership in a Complex World
3 sh (may not be repeated for credit)
Prerequisite: MSL 4301C

Uses the Socratic model of reflective learning. Students analyze and evaluate the skills of others while simultaneously considering their own leadership skills. Students must complete a semester long Senior Leadership Project that requires them to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Permission is required. Material and Supply Fee will be assessed.

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

MTG-Math: Topology Geometry Courses

MTG 3203 Elementary Geometry
3 sh (may not be repeated for credit)
Prerequisite: MAC 1105

A basic course that presents a variety of geometry topics using hands-on strategies. Students will employ paper-pencil, straight edge and compass, and the computer to solve problems related to polygons, lines, angles, circles, area, volume, similarity, and the Pythagorean theorem. Recommended for elementary / middle level Education majors. Math majors may not use this course to fulfill major requirements.

MTG 3212 Modern Geometry
3 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Axiomatic systems, non-Euclidean geometries, synthetic and algebraic projective geometry. Knowledge of high school geometry is required. Gordon Rule: Theoretical Mathematics.

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

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

MTG 6348 Point set and algebraic topology
3 sh (may not be repeated for credit)

An introduction to the fundamental concepts of point set and algebraic topology. Topics covered include separation axioms, compactness, connectivity, completeness, simplicial topology, and homotopy. Applications to modern analysis and to the solution to classical geometrical problems. Must complete Abstract Algebra or have permission of instructor.

MUE- Music Courses

MUE 2040 Introduction to Music Teaching
2 sh (may not be repeated for credit)

A foundation course for potential music educators. An overview of the music education profession and its relationship to mainstream education issues; includes 10 hours of initial observations/participation in local school classrooms. Permission is required.

MUE 3210 Music for the Elementary School Teacher
2 sh (may not be repeated for credit)

Overview of music program for elementary children. Music methods and instructional materials for elementary music program through activities in singing, listening, playing and moving to music. No previous experience in music necessary. Material and supply fee will be assessed.

MUE 3311 Methods for the Elementary School Music Teacher
2 sh (may not be repeated for credit)

How to teach music in the elementary school. Includes "how to" instruction in teaching general music and how to begin and maintain an elementary choral program. For music majors only.

MUE 3312 Kodaly Method
3 sh (may not be repeated for credit)

Presents specific suggestions for teaching music to pre-K and elementary school students, based on the Kodaly Method as practiced in the United States, Canada and Hungary. Offering background material, general ideas, and specific techniques, will train students to utilize the Kodaly concepts effectively, even if they have not had previous experience with this speech.

MUE 3413 Chamber Music Coaching
1 sh (may be repeated for up to 4.000 sh of credit)

Chamber Music Coaching is a class to teach musicians how to prepare small ensembles for performance. The class includes participation in a chamber ensemble and instruction on coaching. It is required of all Music Ed majors and open to all other majors. Permission is required.

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

MUE 4330 Music in the Middle and Secondary Schools

2 sh (may not be repeated for credit)

Prerequisite: MUE 2040 AND MUE 3311

The organization and administration of general, choral, and instrumental music in middle and high schools. Permission is required.

MUE 4343 String Methods and Materials

2 sh (may not be repeated for credit)

Designed to teach Music Ed majors how to begin and implement a string program in the school system. It includes strategies for teaching strings in group settings.

MUE 4411 Special Methods/Choral Techniques

2 sh (may not be repeated for credit)

Problems related to choral conducting with practical application of applicable choral techniques at all levels, elementary through high school. Includes choral and full score study, repertoire for various levels and observations in the public schools of choral music classes.

MUE 4451 Woodwind Instrument Methods and Materials

2 sh (may not be repeated for credit)

Woodwind instruments, playing techniques, reed making techniques, instrument maintenance, history methodology, pedagogy, literature for solo and ensemble experiences. Observations of representative public school programs of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4465 Brass Instrument Methods and Materials

2 sh (may not be repeated for credit)

Brass instrument playing techniques, pedagogy, literature and materials. Required of students in music teaching track.

MUE 4475 Percussion Methods and Materials

2 sh (may not be repeated for credit)

Percussion instruments, playing techniques, history, methodology, pedagogy and literature for solo and ensemble experiences. Observations of representative public school programs required of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4493 Special Methods/Instrumental Techniques

2 sh (may not be repeated for credit)

Prerequisite: MUT 4311

Problems in organization and administration of school instrumental groups at all levels, elementary through high school including marching bands, jazz bands, and band parent organizations. Advanced conducting of instrumental music; study of baton techniques and score analysis; practical applications to performance. Observation of music programs in public schools with emphasis on large and small performing ensembles.

MUE 4905 Directed Study

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

MUE 4940 Music Education Internship

9 sh (may not be repeated for credit)

Music Education Internship is a semester long course allowing the student the opportunity to intern in the local school system under the supervision of an experienced music teacher in their area of study. The student is advised not to take other classes or pursue employment during the semester of internship. Internship assignments will be made by the Music Education Coordinator and will be limited to the Pensacola area. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

MUE 5905 Directed Study

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

MUG-Music: Conducting Courses**MUG 2101 Conducting**

2 sh (may not be repeated for credit)

Applied conducting of vocal and instrumental music; basic concepts and practices of conducting of simple and complex meters; study of baton technique and score analysis; practical applications to performance.

MUH-Music: History/Musicology Courses**MUH 2930 The Music Experience: Special Topics**

3 sh (may be repeated for up to 9.000 sh of credit)

With a non-traditional and multi-cultural approach, specific topics in music are offered each semester. Topics vary each semester but include such areas as Latin American Music, Jazz, Eastern European Music, Music of the Far East, etc. Consult the current course bulletin for semester topic. General Education: Humanities - Fine Arts. Meets Multicultural Requirement.

MUH 3211 History of Western Music I: End of Ancient World Through 17th Century

3 sh (may not be repeated for credit)

First of two courses designed to increase student's understanding of history and literature of music. Music in Western Civilization from and of ancient world through 17th century. Three hours per week. Listening assignments in Music Listening Library. Gordon Rule: Writing.

MUH 3212 History of Western Music II: 18th through 20th Centuries

3 sh (may not be repeated for credit)

Continuation of music history and literature sequence. Vocal and instrumental idioms of 18th-20th centuries emphasizing works of major composers. Gordon Rule: Writing.

MUH 3662 Film Music

3 sh (may not be repeated for credit)

Surveys the importance of music in films, perhaps the most important entertainment and artistic medium of the 20th century. The material will progress from the silent film era to the present day. Students will learn the basics of filmmaking, the important basic musical elements (melody, rhythm, harmony, etc.) and how composers use them in film scoring.

MUH 3801 Jazz History

3 sh (may not be repeated for credit)

Will explore the rich heritage in Jazz from its roots in ragtime to the present day. Includes detailed studies of some of the great jazz musicians such as Duke Ellington, Count Basie, Ella Fitzgerald, Glen Miller, etc.

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

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

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

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

MUL-Music: Literature Courses

MUL 2010 Music Appreciation
3 sh (may not be repeated for credit)

Musical perspectives within Western civilization. Designed to express the correlation of music, art, and literature in Western culture. Special emphases include the nature of music, both past and present, and music as reflection / expression of society's vital activities. Credit cannot be earned in both MUH 2110 and MUL 2110. General Education: Humanities - Fine Arts. Meets Multicultural Requirement.

MUL 3503 Symphonic and String Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211* AND MUT 3611*

Overview of Orchestral and small string ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3551 Band and Wind Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211* AND MUT 3611*

Overview of Symphonic Band and small chamber wind ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3602 Vocal Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211* AND MUT 3611*

Overview of solo vocal literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of solo song, its significant composers, forms and styles from the Renaissance to the present in the four major singing languages; French, German, Italian, and English. Permission is required.

MUL 3643 Choral Literature
2 sh (may not be repeated for credit)
Prerequisite: MUH 3211* AND MUT 3611*

Overview of choral literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of the major compositions, composers, forms and styles from the Renaissance to the present. Permission is required.

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

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

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

MUN-Music: Ensembles Courses

MUN 1310 The University of West Florida Singers
1 sh (may be repeated indefinitely for credit)

Chorus of mixed voices preparing for performances throughout the year. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman / sophomore level only. Material and Supply Fee will be assessed.

MUN 1360 Madrigal Singers
1 sh (may be repeated indefinitely for credit)

Select mixed choral ensemble performing acappella Renaissance music. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman / sophomore level only. Material & Supply Fee will be assessed.

MUN 2210 Symphony Orchestra
1 sh (may be repeated indefinitely for credit)

A college level orchestra which performs great literature of the past and present. Open to all majors with prior orchestral experience. Permission / audition is required. Material and Supply Fee will be assessed.

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

MUN 3133 The University of West Florida Symphonic Band
1 sh (may be repeated indefinitely for credit)

Group of wind and percussion instrumentalists. Open to all qualified students. Interested students should contact the music office. Previous instrumental experience required. Material and Supply Fee will be assessed.

MUN 3213 Advanced Symphony Orchestra
1 sh (may be repeated for up to 18.000 sh of credit)

Symphony Orchestra is a college level orchestra which performs great literature of the past and present. The orchestra is open to all majors with prior orchestral experience. Permission is required. Material and Supply Fee will be assessed.

MUN 3313 Advanced University Singers
1 sh (may be repeated indefinitely for credit)

Chorus of mixed voices preparing for performances throughout the year. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience required. For junior and senior standing only. Material and Supply Fee will be assessed.

MUN 3363 Advanced Madrigal Singers
1 sh (may be repeated indefinitely for credit)

Select mixed choral ensemble performing a cappella Renaissance music. Open to all students by audition. Rehearsals according to schedule. Previous choral experience required. For junior and senior levels only. Material and Supply Fee will be assessed.

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

MUN 3443 Percussion Ensemble

1 sh (may be repeated for up to 8.000 sh of credit)

The percussion ensemble will rehearse and perform a variety of music: music from South America, the Caribbean, Africa and the Middle East that features percussion. Approval of instructor, possible audition to demonstrate an understanding of performance technique and sight reading skills.

MUN 3483 Guitar Ensemble

1 sh (may be repeated for up to 10.000 sh of credit)

The UWF Guitar Ensemble is a performing instrumental organization which meets on a regular basis for rehearsals and performs often for community groups, college functions, and local schools and clubs. Required of guitar performance majors. Open to all majors. Permission required. Material and Supply Fee will be assessed.

MUN 3713 Jazz Combo

1 sh (may be repeated indefinitely for credit)

Performance oriented small group of various sizes. Literature and instrumentation are based upon student and departmental needs. Material and Supply Fee will be assessed.

MUN 3905 Directed Study

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

MUN 4411 String Quartet

1 sh (may be repeated for up to 8.000 sh of credit)

An ensemble to explore the vast literature in the string quartet genre. May be expanded by an additional instrument for certain works. Material and Supply Fee will be assessed.

MUN 4714 The University of West Florida Jazz Band

1 sh (may be repeated indefinitely for credit)

Standard jazz ensemble instrumentation. Opened to qualified students depending on needed instrumentation. Material and Supply Fee will be assessed.

MUN 4905 Directed Study

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

MUO-Music: Opera/Mus Theatre Courses**MUO 3503 Advanced Opera Studio**

1 sh (may be repeated indefinitely for credit)

Study of the techniques of characterization, dramatic analysis, and ensembles singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a series of opera scenes recitals. Audition and permission required. Open to junior and senior levels only.

MUO 4504 Opera Workshop

3 sh (may not be repeated for credit)

An interdisciplinary, performance-oriented study of the techniques of characterization, dramatic analysis, and ensemble singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a recital in order to integrate singing skills and characterization skills for opera and musical theatrical performance.

MUR-Music: Church Courses**MUS-Music Courses****MUS 2241 Diction for Singers I: Italian**

1 sh (may not be repeated for credit)

Study of stage pronunciation and enunciation in Italian with comparisons made to the sound in English, and utilizing the International Phonetic Alphabet.

MUS 2360 Music Technology

2 sh (may not be repeated for credit)

Prerequisite: MUT 2116

Designed to equip music students with the technological skills necessary and ongoing for the application of music software in all venues. Major emphasis on working knowledge of mainstream software and its applications in music composition, education and performance. Freshman and sophomore theory requirements are needed. Material and supply fee will be assessed.

MUS 2905 Directed Study

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

MUS 3253 Diction for Singers II: French/German

1 sh (may not be repeated for credit)

Prerequisite: MUS 2241

Study of stage pronunciation and enunciation in French and German with comparisons made to the sounds in English, and utilizing the International Phonetic Alphabet. Student must be enrolled in applied voice either on the major or minor level.

MUS 3905 Directed Study

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

MUS 4905 Directed Study

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

MUT-Music: Theory Courses**MUT 1111 Freshman Theory**

3 sh (may not be repeated for credit)

Co-requisite: MUT 1271

Basic fundamentals of music theory, including meter and rhythm, tonic, dominant and sub dominant harmony, cadences, major and minor tonality, and inverted triads. Required of all students majoring in music; non- music majors must have departmental permission.

MUT 1112 Freshman Theory II

3 sh (may not be repeated for credit)

Prerequisite: MUT 1111 AND MUT 1271

Co-requisite: MUT 1272

Continuation of MUT 1111, including non-harmonic tones, secondary triads, principles of chord progressions, use of harmonic sequence, primary seventh chords and secondary dominants.

MUT 1271 Freshman Theory Lab

1 sh (may not be repeated for credit)

Co-requisite: MUT 1111

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 1272 Freshman Theory II Lab
1 sh (may not be repeated for credit)
Co-requisite: MUT 1112

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

MUT 2116 Sophomore Theory
3 sh (may not be repeated for credit)
Prerequisite: MUT 1112 AND MUT 1272
Co-requisite: MUT 2276

Extensive harmonic analysis involving primary and secondary chords and including chromaticism and modulation; altered chords and their functions.

MUT 2117 Sophomore Theory II
3 sh (may not be repeated for credit)
Prerequisite: MUT 2116 AND MUT 2276
Co-requisite: MUT 2277

Continuation MUT 2116, including augmented sixth chords, the neopolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.

MUT 2276 Sophomore Theory I Lab
1 sh (may not be repeated for credit)
Prerequisite: MUT 1272
Co-requisite: MUT 2116

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2277 Sophomore Theory II Lab
1 sh (may not be repeated for credit)
Prerequisite: MUT 2276
Co-requisite: MUT 2117

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2361 Jazz Fundamentals I
2 sh (may not be repeated for credit)

Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition, Chord type and related scales, chord progressions, memorization, and listening are covered. Open to all majors.

MUT 2362 Jazz Fundamentals II
2 sh (may not be repeated for credit)
Prerequisite: MUT 2361

Continuation of Jazz Fundamentals I. Jazz Theory and the use of chords and voicings, chord/scale relationship and score analysis.

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

MUT 3401 Techniques of Counterpoint
2 sh (may not be repeated for credit)

Linear writing through species counterpoint and comparison with 16th and 18th century musical idioms. Two years of music theory required.

MUT 3611 Musical Structure and Style
2 sh (may not be repeated for credit)

Systematic analysis of 17th, 18th, 19th and 20th century music, with emphasis upon structural designs and stylistic trends. Two years of music theory required.

MUT 3671 Jazz Improvisation I
2 sh (may not be repeated for credit)

Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition. Chord types and related scales, chord progressions, summarization, and listening are covered. Credit may not be received in both MUT 3671 and MUT 3641.

MUT 3672 Jazz Performance II
2 sh (may not be repeated for credit)
Prerequisite: MUT 3671

Continuation of Jazz Performance I. Presentation of increasingly difficult harmonic structures.

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

MUT 4311 Instrumentation
2 sh (may not be repeated for credit)

Use of, and writing for, orchestral and band instruments; characteristics and capabilities of each. Instruments studied individually, small groups and as members of full ensemble. Two years of college theory required.

MUT 4643 Jazz Improvisation III
2 sh (may not be repeated for credit)
Prerequisite: MUT 3642

Continuation of Jazz Improvisation II. Advanced techniques and practices of jazz improvisation.

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

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

MVB-Applied Music: Brasses Courses

MVB 1311 Applied Music Trumpet
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1312 Applied Music Horn
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1313 Applied Music Trombone
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1314 Applied Music Euphonium

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1315 Applied Music Tuba

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2321 Applied Music Trumpet

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2322 Applied Music Horn

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2323 Applied Music Trombone

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2324 Applied Music Euphonium

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2325 Applied Music Tuba

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2421 Performance: Brass

2 sh (may be repeated for up to 6.000 sh of credit)

Individual instruction in applied music in brasses. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3331 Applied Music Trumpet

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3332 Applied Music Horn

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3333 Applied Music Trombone

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3334 Applied Music Euphonium

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3335 Applied Music Tuba

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3970 Junior Recital - Brass

1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVB 4341 Applied Music Trumpet

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4342 Applied Music Horn

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4343 Applied Music Trombone

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4344 Applied Music Euphonium

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4345 Applied Music Tuba

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4971 Senior Recital - Brass

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

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVK-Applied Music: Keyboard Courses**MVK 1111 Class Piano I**

1 sh (may be repeated for up to 8.000 sh of credit)

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam.

MVK 1112 Class Piano II

1 sh (may be repeated for up to 8.000 sh of credit)

Prerequisite: MVK 1111

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.

MVK 1115 Keyboard Skills

1 sh (may not be repeated for credit)

Development of functional skills at the keyboard. Open only to music majors.

MVK 1311 Applied Music Piano

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in piano. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1313 Applied Music Organ

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1412 Applied Music Harpsichord

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the freshmen level standing. Open to others for credit if a music course or ensemble is taken concurrently and faulty schedules permit.

MVK 2121 Class Piano III

1 sh (may not be repeated for credit)

Prerequisite: MVK 1112

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares students for piano proficiency exam. Placement / audition may substitute for prerequisite.

MVK 2122 Class Piano IV

1 sh (may not be repeated for credit)

Prerequisite: MVK 2121

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement / audition may substitute for prerequisite.

MVK 2223 Applied Music Organ

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music organ. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2321 Performance: Keyboards

2-3 sh (may be repeated for up to 6.000 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2421 Applied Music Piano

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music piano. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2422 Applied Music Harpsichord

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3331 Performance: Keyboards

3 sh (may be repeated for up to 6.000 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3333 Applied Music Organ

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3431 Applied Music Piano

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music piano. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3432 Applied Music Harpsichord

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3702 Accompanying Coaching Class

2 sh (may not be repeated for credit)

Prerequisite: MVK 1311 AND MVK 2421

Designed to equip the pianist with basic skills in accompanying vocalists, instrumentalists, and choral groups. Emphasis on listening techniques related to vocal, instrumental, and choral literature. Two years of applied piano and permission is required.

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

MVK 3970 Junior Recital - Keyboards
1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVK 4341 Performance: Keyboards
3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4343 Applied Music Organ
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4441 Applied Music Piano
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music piano. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4442 Applied Music Harpsichord
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4641 Piano Pedagogy
2 sh (may not be repeated for credit)

Comparison of various published piano methods; application of these methods and other techniques of teaching beginning student to most advanced level. Required of all piano majors.

MVK 4704 Accompanying: Instrumental Literature
2 sh (may not be repeated for credit)
Prerequisite: MVK 1311 AND MVK 2421

Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for instruments involving a piano accompaniment. Survey of literature for woodwinds, brass, strings, percussion, chamber music, and two pianos with emphasis on performance techniques. Two years of applied piano and permission is required.

MVK 4705 Accompanying Vocal Literature
2 sh (may not be repeated for credit)
Prerequisite: MVK 1311 AND MVK 2421

Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for voice involving a piano accompaniment. Survey of literature, both chamber and orchestral, for soprano, mezzo soprano, alto, tenor, baritone, and bass voice types with emphasis on performance techniques. Two years of applied piano and permission is required.

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

MVK 4932 Piano Interpretation
2 sh (may not be repeated for credit)

Study and comparison of interpretations of piano music by means of written treatises, recorded examples and demonstration. Required of all piano majors. Junior level standing and permission is required.

MVK 4942 Accompanying Internship I
2 sh (may not be repeated for credit)
Prerequisite: MVK 1311 AND MVK 2421

An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Two years of applied piano and permission is required.

MVK 4943 Accompanying Internship II
2 sh (may not be repeated for credit)
Prerequisite: MVK 4942

An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Permission is required.

MVK 4971 Senior Recital - Keyboards
1-3 sh (may not be repeated for credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVK 5451 Applied Piano
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in piano. Primarily for music majors of Graduate level standing. Permission is required.

MVP-Applied Music: Percussion Courses

MVP 1311 Applied Music Percussion
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2321 Applied Music Percussion
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2421 Performance: Percussion
2 sh (may be repeated for up to 6.000 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3331 Applied Music Percussion

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3970 Junior Recital - Percussion

1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVP 4341 Applied Music Percussion

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 4971 Senior Recital - Percussion

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

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to a scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVS-Applied Music: Strings Courses

MVS 1311 Applied Music Violin

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1312 Applied Music Viola

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1313 Applied Music Cello

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1314 Applied Music Bass

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1316 Applied Music Guitar

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1811 Violin Class

1 sh (may not be repeated for credit)

Small group instruction in violin. Students will be given instruction on the violin in a small group setting. May not be taken for credit by Music majors. Permission is required.

MVS 2321 Applied Music Violin

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2322 Applied Music Viola

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2323 Applied Music Cello

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2324 Applied Music Bass

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2326 Applied Music Guitar

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3331 Applied Music Violin

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3332 Applied Music Viola

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3333 Applied Music Cello

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3334 Applied Music Bass

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3336 Applied Music Guitar

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3970 Junior Recital - Strings

1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVS 4341 Applied Music Violin

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4342 Applied Music Viola

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4343 Applied Music Cello

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4344 Applied Music Bass

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4346 Applied Music Guitar

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4971 Senior Recital - Strings

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

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission required.

MVS 5451 Applied Viola

3 sh (may not be repeated for credit)

Individual instruction on the viola on the graduate level. Lesson times to be determined in consultation with the instructor.

MVV-Applied Music: Voice Courses**MVV 1311 Applied Music Voice**

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2321 Performance: Voice

2 sh (may be repeated for up to 6.000 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2421 Applied Music Voice

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music vocal. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3331 Performance: Voice

3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3431 Applied Music Voice

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music voice. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3970 Junior Recital - Voice

1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVV 4341 Performance: Voice

3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4441 Applied Music Voice

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music vocal. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4640 Vocal Pedagogy

2 sh (may not be repeated for credit)

Explores strategies of teaching voice to students of all ages and levels.

MVV 4971 Senior Recital - Voice
1-3 sh (may not be repeated for credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVW-Applied Music: Woodwinds Courses

MVV 1311 Applied Music Flute
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 1312 Applied Music Oboe
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 1313 Applied Music Clarinet
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 1314 Applied Music Bassoon
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 1315 Applied Music Saxophone
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2321 Applied Music Flute
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2322 Applied Music Oboe
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2323 Applied Music Clarinet
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2324 Applied Music Bassoon
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2325 Applied Music Saxophone
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2421 Performance: Woodwinds
2 sh (may be repeated for up to 6.000 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.

MVV 3331 Applied Music Flute
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3332 Applied Music Oboe
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3333 Applied Music Clarinet
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3334 Applied Music Bassoon
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3335 Applied Music Saxophone
2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3970 Junior Recital - Woodwinds
1 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVW 4341 Applied Music Flute

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4342 Applied Music Oboe

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4343 Applied Music Clarinet

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4344 Applied Music Bassoon

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4345 Applied Music Saxophone

2-3 sh (may be repeated for up to 9.000 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4971 Senior Recital - Woodwinds

1-3 sh (may 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**

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

NGR 6002 Advanced Health Assessment

3 sh (may not be repeated for credit)

This course will build upon health assessment skills developed in the professional nurse's basic education program. The theoretical and clinical basis for assessment in advanced nursing practice will be developed. The process whereby the advanced nurse utilizes comprehensive physical, psychological, and cultural assessment across the life span to gather specific data relevant to common health problems is demonstrated.

NGR 6140 Advanced Pathophysiology

3 sh (may not be repeated for credit)

This course is designed to present an orientation to disease as disordered physiology. It is intended to enable those in advanced nursing practice to understand how and why the symptoms and signs of various conditions appear. In approaching disease as disordered physiology, this course analyzes the mechanism(s) of production of the symptoms and signs of different disease states. In doing so, it recognizes that those in advanced nursing practice need to understand the mechanism(s) underlying the disease and its clinical manifestations so that rational therapies can be devised. Thus, appropriate screening and diagnostic laboratory evaluation methods will also be included.

NGR 6172 Advanced Pharmacology

3 sh (may not be repeated for credit)

This course is designed to expand the advanced practice student's knowledge of pharmacotherapeutics. Broad categories of pharmacological agents are examined. Skills to assess, diagnose, and manage a client's common health problems in a safe, high quality, and cost-effective manner are emphasized.

NGR 6636 Health Promotion and Primary Prevention in Nursing

3 sh (may not be repeated for credit)

The theoretical foundation for the promotion of health and prevention of disease in the individual, family, local/global community, and the environment. Permission is required.

NGR 6700 Nursing Theory

3 sh (may not be repeated for credit)

This course explores the theoretical foundations of nursing and nursing practice. It examines the nursing influence on legislation and policy development. Students will critically analyze nursing theories and healthcare policies from a historical, multidisciplinary, and global perspective. Permission is required.

NGR 6710 Nursing Education Seminar I

6 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6740 AND NGR 6800 AND NGR 6880

This initial specialization seminar course builds on core course content in the development of the nurse as an educator in both the classroom and clinical settings. It explores complex theories and concepts in nursing education and begins the preparation of the student for the nurse educator role. It will look at the history of nursing education, curriculum design, learning theories, teaching strategies, resources, accreditation of nursing programs. In addition to the didactic component, students will have the opportunity to apply content from this and prior coursework in a precepted situation. Each student will obtain a preceptor who meets specified criteria for the preceptor role to serve as their preceptor for the required 90 practicum hours in this course. Students will also have didactic and 90 practicum hours in the subsequent course, NGR 6715. These courses provide the student with advanced study in inquiry leading to preparation for a capstone project in their last semester. Permission Required.

NGR 6715 Nursing Education Seminar II

6 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6740 AND NGR 6800

This second seminar course explores motivation and technology. The student has the opportunity to develop clinical skills and instructional strategies for a non-traditional course delivery. Looks at nursing case management, in-service education, continuing education in practice. Legal aspects, financial management, and business plans are analyzed.

NGR 6728 Nursing Leadership & Management Seminar I

6 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6740 AND NGR 6800 AND NGR 6880

This initial specialization seminar course builds on the undergraduate content in the development of the advanced leadership role. It explores complex theories and concepts in nursing leadership and management, beginning the preparation of the student for the nursing management role. The course will investigate leadership models, theories, and styles; roles and functions of management; and complex organizational systems to include structure, mission, philosophy, goals, objectives, basic financial management, human resources, accrediting agencies, and the political environment. Also, this course provides the student with advanced study in inquiry leading to preparation for a capstone project completed in their last semester.

NGR 6729 Nursing Leadership & Management Seminar II

6 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6740 AND NGR 6800 AND NGR 6880

This is the second of Nursing Leadership and Management Seminars with the focus on nursing administrators/leaders making organizational strategic changes within healthcare. This course will explore (1) nursing as a business, (2)organizational culture and diversity, (3)complexity leadership and management principles, (4)strategic planning, (5)quality and safety in healthcare, (6)developing/managing projects, (7)tools for capital budgeting and asset management, (8)managerial decision-making skills, (9)case management approaches, (10) targeted markets, and (11)outcomes management. Additionally, the impact of external factors on complex healthcare systems and nursing will be explored.

NGR 6740 Contemporary Issues in the Role of Advanced Nursing Practice

3 sh (may not be repeated for credit)

Focuses on the role of the Advanced Nursing Practice nurse. Integrates nursing and other discipline theories and issues relevant to clinical practice, administration, education, and research issues. Includes theoretical analysis, application, and synthesis in the development of an individual model of advanced nursing practice for the student. Permission is required.

NGR 6756 Advanced Clinical Nursing

3 sh (may not be repeated for credit)

Health care delivery with a focus on nursing case management and managed care. The advanced clinical nurse is viewed as a partner with a variety of disciplines in the provision of quality nursing care in a variety of settings. Permission is required.

NGR 6800 Nursing Research, Statistics, and Evidence Based Practice

3 sh (may not be repeated for credit)

This initial research, statistics and evidence-based practice (EBP) course builds on undergraduate research & statistics content. It explores complex theories and concepts in nursing research, statistics and evidence-based practice beginning the preparation of the student for the nursing scholar role. It includes critical appraisal of research evidence including the interpretation of statistical analyses commonly used in evidence summaries. It includes the evidence-based practice process to prepare the graduate nurse to translate research evidence summaries into evidence-based practice project proposals. It will also prepare the nurse for the role of change agent as they identify practice areas where evidence-based practice integration is needed and facilitate the movement of evidence-based quality initiatives and practice change. Also, it provides the student with core EBP competencies leading to preparation for a capstone project in their last semester.

NGR 6833 Nursing Leadership & Management EBP Project I

3 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6729 AND NGR 6740 AND NGR 6880

This course follows all MSN core content and Nursing Leadership and Management Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6833L course. Permission is required.

NGR 6833L Nursing Leadership & Management EBP Project II

3 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6728 AND NGR 6729 AND NGR 6740 AND NGR 6800 AND NGR 6833 AND NGR 6880

This culminating project course follows all MSN core content, Nursing Leadership and Management Seminars, and completion of an approved project proposal. In this course the student will use knowledge from prior courses to conduct the evidence-based project from NGR 6833 project proposal. Permission is required.

NGR 6834 Nursing Education Evidence Based Project I

3 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6800 AND NGR 6880

This course follows all MSN core content and Nursing Education Seminars. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6834L Nursing Education Evidence Based Practice Project II

3 sh (may not be repeated for credit)

Prerequisite: NGR 6002 AND NGR 6140 AND NGR 6172 AND NGR 6700 AND NGR 6710 AND NGR 6715 AND NGR 6740 AND NGR 6800 AND NGR 6834 AND NGR 6880

This course follows all MSN core content, Nursing Education Seminars, and the project proposal development course. In this course the student will use knowledge from prior courses to develop an evidence-based project proposal suitable for presentation and/or publication. This project will be implemented during the NGR 6834L course. Permission is required.

NGR 6880 Ethical Issues in Advanced Nursing Practice
3 sh (may not be repeated for credit)

This course will explore the philosophical and theoretical foundations of health care ethics. Additionally, this course will present multiple perspectives used in medical/nursing ethics decision-making. The history of and current issues in medical ethics will be explored along with relevant case studies.

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

NUR-Nursing: Generic Undergrad Courses

NUR 3065C Patient Centered Care II
3 sh (may not be repeated for credit)
Co-requisite: NUR 3065L

This course provides the student vital knowledge on the increasing acuity of common health illnesses and related nursing care interventions for the Adult Health client across the lifespan. Through critical thinking, clinical reasoning, evidence based practice and problem based learning, students gain an understanding of actual and potential complex health problems. General Education: Social Science - Socio-Political Perspectives.

NUR 3065L Patient Centered Care II Lab
3 sh (may not be repeated for credit)
Co-requisite: NUR 3065C

This clinical course provides the student with applicable clinical experiences caring for adult health clients with varied illnesses. Through clinical experiences, the concepts of critical thinking, clinical reasoning, quality and safety initiatives, and evidence based practice are further formulated in client care situations.

NUR 3067 Health Assessment and Promotion
3 sh (may not be repeated for credit)

For the RN-BSN student, this course focuses on enhancing knowledge and skills in health history interviews, health screening, and selected physical examination techniques. Identification of primary health needs and the ability to locate reliable internet resources is explored.

NUR 3081 Transition to Professional Nursing Practice
3 sh (may not be repeated for credit)

This introductory course for the RN-BSN student provides educational based guidance in progressing into the role of the baccalaureate nurse through exploration of nursing theories, healthcare policy, and the core healthcare professional competencies.

NUR 3145 Pharmacology
3 sh (may not be repeated for credit)

For the RN-BSN student, this course focuses on the principles and concepts of pharmacology, current population specific treatment and related nursing practices.

NUR 3505 Mental Health Nursing Care
3 sh (may not be repeated for credit)
Co-requisite: NUR 3505L

Students will examine the constructs of mental health, and mental illness focusing on restoration and maintenance of individuals experiencing acute and chronic mental health issues. Evidence-based nursing strategies, with a focus on cultural considerations and groups across the lifespan will be addressed. Meets Multicultural Requirement.

NUR 3505L Mental Health Nursing Care Lab
2 sh (may not be repeated for credit)

Co-requisite: NUR 3035

This course provides the mental health clinical component of Mental Health Nursing Care. Students will perform therapeutic nursing care to diverse individuals and families across the life span. The use of evidence based practice guidelines will be incorporated into the provision of nursing care of those individuals who chronic mental health disorders. Meets Multicultural Requirement.

NUR 3871 Health Care Informatics
3 sh (may not be repeated for credit)

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 client-centered care and efficiency are introduced.

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

NUR 4125 Pathophysiology and Healthcare Management
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
3 sh (may not be repeated for credit)

This course introduces the baccalaureate nursing student to evidence-based nursing practice. Students will explore quality care initiatives through the integration of theory, evidence, clinical judgment and patient preferences. Gordon Rule: Writing.

NUR 4286 Gerontological Nursing
3 sh (may not be repeated for credit)

For the RN-BSN student, this course explores holistic nursing strategies for health promotion and risk reduction in the older adult.

NUR 4636 Public Health & Community-based Nursing
4 sh (may not be repeated for credit)

This RN-BSN course emphasizes practice of public health and community-based nursing. The course emphasizes systems-level health promotion and disease prevention, using the public health sciences of epidemiology, environmental health, health policy, community assessment, and community assessment. Meets Multicultural Requirement.

NUR 4826 Law & Ethics in Nursing
3 sh (may not be repeated for credit)

For the RN-BSN student to explore legal concepts and regulations that guide professional nursing practice. Examines ethical decision-making related to nursing practice and health care.

NUR 4828 Nursing Systems Management
4 sh (may not be repeated for credit)

This RN-BSN course provides an overview of essential nurse leader/manager skills, knowledge, and expertise required for complex health care environments. An emphasis on quality and safety initiatives will be examined to ensure the provision of highly reliable care.

NUR 4895 Health Education in the Community
3 sh (may not be repeated for credit)

This capstone course focuses on the role of nurse as health educator. The student will design and implement an evidence based teaching plan for a vulnerable population in the community setting.

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

OCB-Biological Oceanography Courses

OCB 3108 Study Abroad In Florida - Marine Field Studies
3-4 sh (may not be repeated for credit)
Prerequisite: BSC 2010 AND BSC 2011 AND CHM 2045 AND CHM 2046

This is a 5-week, field intensive course designed to expand student knowledge of the biodiversity, geochemistry, and human impact of Florida's coastal and offshore ecosystems through a round-robin trip around Florida to explore marine eco-systems. This course will take students from the reefs of the Florida Keys to the open Gulf of Mexico aboard state-of-the-art research vessels, as well as shallow tropical estuaries of the western Everglades, the temperate Estuarine and Coastal environments of Northeast Florida, and watersheds in northwest Florida. Field and laboratory work will allow students to utilize current marine research methods while learning about marine environments and their organisms. Some field activities will be physically demanding. Required prerequisites include Chem I and II, Bio I and II, or permission of the instructor is required.

OCB 4104 Marine Field Ecology
2 sh (may not be repeated for credit)

A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 5106; graduate students will be assigned additional work.

OCB 5106 Marine Field Ecology
2 sh (may not be repeated for credit)

A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 4104; graduate students will be assigned additional work.

OCC-Chemical Oceanography Courses

OCC 4002 Chemical Oceanography
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topics covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, diagenesis, and air-sea gas exchange.

OCC 4414 Global Biogeochemical Cycles
3 sh (may not be repeated for credit)
Prerequisite: CHM 2045/L

The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.

OCE-General Oceanography Courses

OCE 3007 Concepts of Oceanography and Marine Biology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

This course is an examination of the principal ecosystems of the world's oceans, emphasizing the biotic and abiotic factors that contribute to the distribution of marine organisms. This course will focus on ocean literacy: awareness and understanding of the fundamental concepts about the history, function, contents, and utilization of the ocean. Emphasis will be placed on marine environmental issues and climate change.

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

OCE 4265 Remote Sensing of Oceans
3 sh (may not be repeated for credit)
Prerequisite: BSC 2311

Provides a foundation in cartographic and remote sensing principles, and practical experience with remote sensing applications as they relate to the world's oceans. It examines basic concepts of electromagnetic radiation and its interaction with earth. Remotely sensed images from sensors such as SeaWiFS, AVHRR, and Topex/Poseidon will be discussed. Exercises will cover ocean color, sea surface temperature altimetry, and sea ice.

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

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

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

ORI-Oral Interpretation Courses

ORI 4130 Oral Interpretation
3 sh (may not be repeated for credit)
Prerequisite: SPC 2608

Study in the theories and practice of human communication through oral performance. The medium of oral interpretation is the process that defines the literature. The performance process from the discovery of the text to the oral performance is covered. Theoretical components of performance criticism are emphasized. Primary focus is the analysis and preparation for oral presentation of prose, poetry and dramatic literature for public audiences.

PAD-Public Administration Courses

PAD 3003 Public Administration in American Society
3 sh (may not be repeated for credit)

Effective administration of government agencies, nonprofit organizations and other civil institutions is necessary if American democracy is to thrive. Addresses that challenge by examining the administration of governmental and nonprofit organizations using both traditional concepts (e.g. administrative theory, civil service systems, human relations movement) and more contemporary concepts (the new public administration, reinventing government).

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

PAD 4905 Directed Study

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

PAD 4949 Cooperative Education

0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on a satisfactory / unsatisfactory basis only. Master level student and permission of director of Cooperative Education is required.

PAD 5107 Modern Public Organization Theory

3 sh (may not be repeated for credit)

Analysis of contemporary theories of organizations applicable to individual, group and system levels. Public organizations treated generically with examples and applications primarily drawn from the public and nonprofit sectors. May not be taken for credit by students having credit for MAN 5204 or SOP 5617.

PAD 5146 The Nonprofit Profession

3 sh (may not be repeated for credit)

Overview of the field of nonprofit organizations from a management perspective. Human resource management (including working with volunteers and professionals), public relations, board relations, daily operations, financial matters, and ethics.

PAD 5434 Leadership

3 sh (may not be repeated for credit)

Leadership styles and techniques of people in all levels of government - executive, legislative and administrative and in the community in general. Will attempt to help students assess their own strengths and weaknesses as leaders and determine a strategy for that development.

PAD 5605 Administrative Law

3 sh (may not be repeated for credit)

Explores the legal foundations and administration of public service administrative law. Focuses on the development of the American administrative state; legislative and judicial controls over agency discretionary power; the limits of judicial review; the legality of administrative action; agency rule-making and administrative discretion of public managers; and the liability of public managers for unlawful acts.

PAD 5635 Government Contract Law

3 sh (may not be repeated for credit)

Government contract law and ethics. Major provisions of the federal Procurement Integrity Act and general federal acquisition contract principles. Authority of contracting officers, delegation of contracting officer authority, and impact of delegation. Procedures for formation of government contracts and contract protest, government property fundamentals, government contract funding and fiscal matters, labor, social, economic, environmental concerns and fraud. Legal aspects of inspection, acceptance, delivery, warranties, changes, terminations and contract disputes.

PAD 5855 Acquisition Administration

3 sh (may not be repeated for credit)

Working knowledge of government contracting policies and procedures needed to evaluate and analyze methods of solicitation and awarding of federal government contracts in the most advantageous manner for the government client.

PAD 5862 Government Cost and Pricing Analysis

3 sh (may not be repeated for credit)

Government Cost and Pricing policies and procedures needed to prepare or evaluate and analyze cost proposals and costs incurred in Federal Government Contracts. Components of government cost and price analysis in federal contracting as defined by the Defense Contracting Auditing Agency (DCAA). Contracts from the contractor's and the federal Contracting Officer's perspective. Indirect costs and cost allocation bases. Methods utilized by the federal government to establish estimates of fair and competitive prices for goods and services.

PAD 5905 Directed Study

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

PAD 6041 Public Service Ethics

3 sh (may not be repeated for credit)

Focuses on ethical dilemmas and concerns faced by public managers arising from their exercise of administrative discretionary power. Explores contemporary public service ethical dilemmas by examining teleological and deontological schools of thought applied to case studies and ethics literature. Provides maps and tools to make moral experiences more explicit and consistent.

PAD 6053 Public Administration Professional

3 sh (may not be repeated for credit)

Scope and nature of field of public administration; development of public administration; politics of bureaucracy; dynamics of policy making and implementation.

PAD 6137 Project Leadership and Administration

3 sh (may not be repeated for credit)

Conceptualizing and developing project plans incorporating realistic problems to solve, resources, execution strategies, criteria for successful completion, and assessment strategies. Regulation mechanisms such as appropriate goal setting, managing timelines, developing flexible back-up plans, identification of individual and group processes. Focuses on the need for team skills, the responsibility of team members, managing conflict, problem solving, team member assessment. Cases will be examined, multiple projects planned individually and in teams, and various planning models will be examined. Pert and Gantt charting will be covered.

PAD 6227 Public Budgeting

3 sh (may not be repeated for credit)

Detailed study of various budgeting systems and the political processes and environment that impact upon them. Extensive practical work in budget preparation.

PAD 6275 Political Economy of Public Administration

3 sh (may not be repeated for credit)

Consideration of the American political economy including: markets, politics and democracy; market failure and bureaucratic failure; relationships between government and business; public choice theory; privatization and contracting out.

PAD 6335 Strategic Management for Public and Nonprofit Organizations

3 sh (may not be repeated for credit)

An examination of the rationale and methods of strategic management applied to the planning processes of public and nonprofit organizations.

PAD 6417 Public Service Human Resource Management

3 sh (may not be repeated for credit)

An examination of the theories, practices and issues central to contemporary human resource management in public service and nonprofit organizations. This course focuses on leadership issues in public service HRM.

PAD 6425 Public Service Conflict Management and Resolution

3 sh (may not be repeated for credit)

Focuses on managing public disputes and emphasizes the significance of praxis. Explores constructive alternative dispute resolution (ADR) processes and procedures to legalistic, adversarial methods of dispute resolution in the public and nonprofit sectors. Knowledge and skills developed are those needed to analyze complex conflict and dispute situations, shape appropriate processes to involve the right parties, constructively negotiate settlements, select mediators and facilitators, and design dispute resolution programs. Emphasizes conflict management and resolution leadership.

PAD 6706 Public Administration Research Methods

3 sh (may not be repeated for credit)

Basic ideas of scientific research and how it is used in public administration. Prepares the student as both a consumer and a potential producer of research.

PAD 6864 Intermediate Contracting and Contract Administration

3 sh (may not be repeated for credit)

Government contracting and administration at the intermediate level. Intermediate level aspects of the federal acquisition process ranging from initiating the acquisition process through protests. Intermediate federal contract administration from initiating contract administration through claims.

PAD 6905 Directed Study

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

PAD 6946 Administration Capstone

3 sh (may not be repeated for credit)

Culminating academic endeavor of students who are nearing completion of their Master of Science in Administration (MSA) program with specializations in Public Administration, Leadership or Acquisitions and Contract Administration. The course involves content topics and an end of course action research project that provides students with the opportunity to explore a problem or issue of particular personal or professional interest and to address that problem or issue through focused study and applied research under the direction of a faculty member. The project should demonstrate students' abilities to synthesize and apply the knowledge and skills acquired in his/her academic program to real-world issues and problems. This final project should affirm students' ability to think critically and creatively, to solve practical problems, to make reasoned and ethical decisions, and to communicate effectively. The capstone course serves as documentation of the student's personal mastery of professional competencies. It is designed to be an integrative experience for MSA students in these specializations. Students will submit a Capstone Course Approval Form and once approved, be permitted to register for this course.

PAD 8905 Directed Study

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

PAD 8980 Dissertation

1-6 sh (may be repeated for up to 18.000 sh of credit)

Major individual research in an area of significant public administration interest; designed specifically for candidates in the EDD Curriculum and Instruction program - Administrative Studies / Public Administration specialization. Reflects intensive Social Science / Public Administration research produced by the student with guidance from the major professor and doctoral committee members. Admission to candidacy and permission is required. Graded on a satisfactory/unsatisfactory basis only.

PCB-Process Bio:Cell/Mole/Eco Courses

PCB 2905 Directed Study

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

PCB 3063 Genetics

4 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L OR (BSC 1085/L AND BSC 1086/L)

Co-requisite: PCB 3063L

Origin, development and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3063L Genetics Lab

0 sh (may not be repeated for credit)

Co-requisite: PCB 3063

Corresponding lab for Genetics.

PCB 3097 Introduction to Human Anatomy

3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: PCB 3097L

Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields.

PCB 3097L Introduction to Human Anatomy Laboratory

1 sh (may not be repeated for credit)

Prerequisite: PCB 3097*

Co-requisite: PCB 3097

Introduction to Human Anatomy is a comprehensive examination of human anatomy. The relationship between structure and function forms a continuing theme within both lecture and laboratory. This course is designed for students who intend to pursue a professional degree in health related fields.

PCB 3103 Cell Biology

3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Cell biology is the study of the structure and function of eukaryotic cells. The course will cover the basics of cellular function and biochemical foundations, cellular genetics and molecular biology, cell structure and function, cell signaling, and cytoskeletal organization and regulation. Relevant current topics in the news and disease case studies will also be used to more broadly apply the topics learned throughout the course to real-world situations.

PCB 3103L Cell Biology Laboratory

1 sh (may not be repeated for credit)

Prerequisite: PCB 3103*

Cell biology Laboratory is designed to provide the fundamental training in the current techniques and methodologies used in research laboratories. The laboratory is to complement the cell biology lecture, however can be taken independently. The experiments are associated with the following topics: microscopy (bright-field and fluorescence), the scientific method, biochemistry, cellular organization, structure and function relationships, cellular energetics, biotechnology, forensic investigations, and the immunology of the wound response.

PCB 3253 Developmental Biology

3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: PCB 3253L

Development from molecular, cellular and multicellular aspect; information flow, morphogenesis and differentiation in multicellular animals and plants. Material and supply fee will be assessed for corresponding lab.

PCB 3253L Developmental Biology Lab

1 sh (may not be repeated for credit)

Co-requisite: PCB 3253

Corresponding lab for Developmental Biology.

PCB 3905 Directed Study

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

PCB 3930 Biology Seminar Series

1 sh (may not be repeated for credit)

Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB4922 and PCB5924; graduate students will be assigned additional work.

PCB 4043 Ecology

3 sh (may not be repeated for credit)

Prerequisite: (BOT 2010/L AND CHM 2046/L AND STA 2023) OR BSC 2011/L

Co-requisite: PCB 4043L

Interactions of microorganisms, plants, and animals with abiotic and biotic factors in the environment are examined as determinants of the distribution and abundance of species, population dynamics and ecosystem function. General concepts and methodologies of ecological science are discussed at individual, population, community and ecosystem levels of organization. Material and Supply Fee will be assessed for corresponding lab.

PCB 4043L Ecology Lab

1 sh (may not be repeated for credit)

Co-requisite: PCB 4043

Corresponding lab for Ecology.

PCB 4048 Estuarine Ecology

4 sh (may not be repeated for credit)

Prerequisite: CHM 2046/L AND PCB 4043

Co-requisite: PCB 4048L

Physical, chemical, and geological / sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 5445; graduate students will be assigned additional work.

PCB 4048L Estuarine Ecology Laboratory

0 sh (may not be repeated for credit)

Co-requisite: PCB 4048

Field and laboratory techniques in estuarine ecology, accompanies the lecture component of PCB 4048. Common field and laboratory techniques in estuarine ecology will be emphasized. Offered concurrently with PCB 54451L (Estuarine Ecology Laboratory); graduate students will be assigned additional work. Material and Supply Fee will be assessed.

PCB 4098 Concepts in Human Physiology

3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: PCB 4098L

Concepts in Human Physiology is a 3 credit lecture and 1 credit lab course for students interested in areas related to human physiology. It covers physiological mechanisms of the human body. Emphasis is placed on mechanisms designed to maintain homeostatic conditions, membrane dynamics and cell signaling including endocrine and nervous signals, as well as other vital physiologic mechanisms necessary to homeostasis.

PCB 4098L Concepts in Human Physiology Laboratory

1 sh (may not be repeated for credit)

Prerequisite: PCB 4098*

Concepts in Human Physiology is a 3 credit lecture and 1 credit laboratory course for students interested in areas related to human physiology. The laboratory portion will consist of laboratory exercises design to reinforce concepts learned in lecture. Laboratory exercises include modeling cellular activities and metabolic reactions, as well as measurements and experiments related to organ system function.

PCB 4233 Immunology

3 sh (may not be repeated for credit)

Prerequisite: MCB 3020 OR (CHM 2210 AND PCB 3103)

Co-requisite: PCB 4233L

Basic principles of immunology to include humeral and cell-mediated immune mechanisms, the complement system and the inflammatory response. Offered concurrently with PCB 5235; graduate students will be assigned additional work.

PCB 4233L Immunology Laboratory

1 sh (may not be repeated for credit)

Prerequisite: PCB 4233*

Selected experiments in immunology. Special permission required. Permission granted on the basis of fulfilling prerequisite. Material and Supply Fee will be assessed. Offered concurrently with PCB 5235L; graduate students will be assigned additional work.

PCB 4364 Marine Ecological Physiology

3 sh (may not be repeated for credit)

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 5319; graduate students will be assigned additional work.

PCB 4364L Marine Ecological Physiology Laboratory

1 sh (may not be repeated for credit)

Prerequisite: PCB 4364*

Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and Supply Fee will be assessed. Offered concurrently with PCB 5319L; graduate students will be assigned additional work.

PCB 4374 Tropical Ecology/Op Wall

3 sh (may not be repeated for credit)

1-6 week course culminating in an expedition with Op Wall to study coral reefs, mangrove forests, as well as tropical dry, rain and cloud forests. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. A series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna and to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 5344; graduate students will be assigned additional work. Permission is required.

PCB 4442 Wetlands Ecology

3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: PCB 4442L

Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 5446; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fees will be assessed for corresponding lab.

PCB 4442L Wetlands Ecology Lab

1 sh (may not be repeated for credit)

Co-requisite: PCB 4442

Corresponding lab for Wetlands Ecology.

PCB 4482 Quantitative Ecology

3 sh (may not be repeated for credit)

Prerequisite: PCB 4043 AND STA 2023

Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations, and communities. Methods of estimating abundance, survival, habitat selection, species diversity and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 5480; graduate students will be assigned additional work.

PCB 4522 Genetic Engineering

3 sh (may not be repeated for credit)

Prerequisite: PCB 3063

Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 5525; graduate students will be assigned additional work.

PCB 4524 Molecular Biology

3 sh (may not be repeated for credit)

Prerequisite: BCH 3033/L

Co-requisite: PCB 4524L

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 5527; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 4524L Molecular Biology Lab

1 sh (may not be repeated for credit)

Co-requisite: PCB 4524

Corresponding lab for Molecular Biology.

PCB 4673 Principles of Evolution
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 5675; graduate students will be assigned additional work.

PCB 4703 Human Physiology
3 sh (may not be repeated for credit)

Physiological mechanisms of various organ systems in the human body. Emphasis on transport mechanisms, renal function, hormones, respiration, cardiac function, muscle physiology, digestion, and immune systems.

PCB 4723 Comparative Animal Physiology
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with PCB 5727; graduate students will be assigned additional work.

PCB 4723L Comparative Animal Physiology Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PCB 4723*

General and comparative animal physiology. Complex structures, phenomena, and concepts involved in regulation of a variety of physiological mechanisms. Material and Supply Fee and Equipment Fee will be assessed. Offered concurrently with PCB 5727L; graduate students will be assigned additional work.

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

PCB 4922 Biology Seminar
1 sh (may not be repeated for credit)

Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB5924 and PCB3930 (Biology Seminar); graduate students will be assigned additional work.

PCB 5235 Immunology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5235L

The basic principles of immunology will be addressed. Immune-mediated disease processes will be discussed. Offered concurrently with PCB 4233; graduate students will be assigned additional work.

PCB 5235L Immunology Laboratory
1 sh (may not be repeated for credit)

Selected experiments in immunology. Permission is required. Permission granted on the basis of fulfilling prerequisite or co-requisite. Material and supply fee will be assessed. Offered concurrently with PCB 4233L; graduate students will be assigned additional work.

PCB 5319 Marine Ecological Physiology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5319L

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxidic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 4364; graduate students will be assigned additional work.

PCB 5319L Marine Ecological Physiology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: PCB 5319

Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxidic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and supply fee will be assessed. Offered concurrently with PCB 4364L; graduate students will be assigned additional work.

PCB 5344 Tropical Ecology/Op Wall
3 sh (may not be repeated for credit)

1-6 week course culminating in an expedition with Op Wall to study coral reefs, mangrove forests, as well as tropical dry, rain and cloud forests. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. A series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna and to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 4374; graduate students will be assigned additional work. Permission is required.

PCB 5445 Estuarine Ecology
4 sh (may not be repeated for credit)
Co-requisite: PCB 5445L

Physical, chemical, and geological / sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 4048; graduate students will be assigned additional work.

PCB 5445L Estuarine Ecology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: PCB 5445

Field and laboratory techniques in estuarine ecology, accompanies the lecture component of PCB 5445. Common field and laboratory techniques in estuarine ecology will be emphasized. Offered concurrently with PCB 4048L (Estuarine Ecology Laboratory); graduate students will be assigned additional work. Material and Supply Fee will be assessed.

PCB 5446 Wetlands Ecology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5446L

Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 4442; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fee will be assessed for corresponding lab.

PCB 5446L Wetlands Ecology Lab
1 sh (may not be repeated for credit)
Co-requisite: PCB 5446

Corresponding lab for Wetlands Ecology.

PCB 5480 Quantitative Ecology
3 sh (may not be repeated for credit)

Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations and communities. Methods of estimating abundance, survival, habitat selection, species delivery and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 4482; graduate students will be assigned additional work.

PCB 5525 Genetic Engineering
3 sh (may not be repeated for credit)

Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 4522, graduate students will be assigned additional work.

PCB 5527 Molecular Biology
3 sh (may not be repeated for credit)
Co-requisite: PCB 5527L

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 4524; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 5527L Molecular Biology Lab
1 sh (may not be repeated for credit)
Co-requisite: PCB 5527

Corresponding lab for Molecular Biology.

PCB 5675 Principles of Evolution
3 sh (may not be repeated for credit)

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 4673; graduate students will be assigned additional work.

PCB 5727 Comparative Animal Physiology
3 sh (may not be repeated for credit)

General and comparative animal physiology. Study of complex structures, phenomena, and concepts involved in regulation physiological processes employed by different groups of animals. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with PCB 4723; graduate students will be assigned additional work.

PCB 5727L Comparative Animal Physiology Laboratory
1 sh (may not be repeated for credit)

General and comparative animal physiology. Complex structures, phenomena, and concepts involved in regulation of a variety of physiological mechanisms. Material and Supply Fee will be assessed. Offered concurrently with PCB 4723L; graduate students will be assigned additional work.

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

PCB 5924 Biology Seminar
1 sh (may not be repeated for credit)

Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB 4922; graduate students will be assigned additional work.

PCB 6074 Experimental Design in Biology
3 sh (may not be repeated for credit)

Covers experimental design in relation to the analysis of biological data. Topics include sources of error, variation in biological systems, replication and pseudoreplication, controls, multiplicity, sample size and randomization. The physical layout of biological experiments in the field and laboratory will be discussed in relation to basic parametric data analysis techniques.

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

PCB 6971 Thesis
1-6 sh (may be repeated for up to 12.000 sh of credit)

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

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

PCO-Psychology of Counseling Courses

PCO 2202 Introduction to General Counseling Techniques
3 sh (may not be repeated for credit)

Develops basic skills and techniques needed for a person to be effective in the helping process and to learn about the qualities and conditions necessary for counseling.

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

PCO 4242 Introduction to Group Counseling
3 sh (may not be repeated for credit)

Theory, research and practice of group processes. Provides an opportunity for participation or observation of group counseling.

PCO 4310 Intervention in Addictions
3 sh (may not be repeated for credit)

Models of addictive behaviors and implications for assessment and treatment of addiction. Emphasis primarily on alcohol and drug abuse, with information on smoking and obesity included.

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

PCO 6204 Pre-Practicum: Techniques of Counseling and Psychotherapy
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166 AND PCO 6216
Co-requisite: PCO 6206C, PCO 6246

Experientially-based with an emphasis on counseling and psychotherapeutic techniques and behavior, including the identification and acquisition of broad communication and relationship-building skills, particular counseling techniques, and the development of a counseling response repertoire. Students also develop an understanding of the interaction between theory and technique as it applies to clinical practice, as well as develop their case conceptualization and case management skills. Simulated supervised counseling experience is provided through the use of micro-counseling and role-playing. Provides the opportunity to practice actual counseling skills and techniques prior to the practicum and internship experiences. The practicum placement process is included.

PCO 6206C Ethical and Professional Issues in Counseling
3 sh (may not be repeated for credit)

In depth review of critical issues in the practice of mental health counseling, including the professional organizations and ethical standards for psychologists and counselors, legal and professional requirements for practicing in the profession, and the rights of clients. Topics include standards of preparation, certifications and licensing, and the role identity and professional obligations of mental health counselors. Relevant issues for school counselors will be addressed.

PCO 6216 Theories of Individual Counseling
3 sh (may not be repeated for credit)

Students must take (Either CLP 3144 or PPE 4003) or by permission of the instructor or an undergraduate degree in Psychology before enrolling in this course. Overview of major contemporary theoretical approaches to individual counseling and psychotherapy.

PCO 6246 Theories of Group Counseling
3 sh (may not be repeated for credit)

Overview of major contemporary theoretical approaches to group counseling and psychotherapy.

PCO 6278 Multicultural Counseling
3 sh (may not be repeated for credit)

Addresses the similarities and differences among various culturally diverse groups, and informs counselors of the characteristics and processes necessary to become a culturally skilled counselor.

PCO 6312 Substance Abuse Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166

Examines the misuse of alcohol and other drugs, and how they affect biological, psychological, social and familial spheres of functioning. Designed to convey to counselors-in-training and community professionals the most essential information about licit and illicit drugs, provide an overview of the prominent theoretical models of addiction, and explore various clinical methods for assessing and treating substance use disorders. Courses in Theories of Individual, Group, or Family Counseling are recommended.

PCO 6315 Assessment in Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166

Practical training in the process of clinical assessment in mental health counseling. Includes an introduction to the science of clinical assessment with a focus on the use of assessment techniques such as interviewing and psychological testing, in a professionally and ethically responsible manner. Includes an experiential component in which the student will develop beginning skills in the use of clinical assessment techniques, under supervision. Permission is required. Material and Supply Fee will be assessed.

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

PCO 6946 Practicum in Counseling
3 sh (may not be repeated for credit)
Prerequisite: CLP 5166 AND PCO 6206C AND PCO 6216

Placement of the student in a local mental health agency for 8-10 hours each week. The emphasis of this experience is on development of clinical skills in interviewing, assessment, and counseling of individuals, groups, and families. Students will complete a minimum of 150 hours of field placement of which at least 40 will be in direct client contact. There is a weekly class meeting and individual supervision with the instructor in addition to the clinical activities and supervision at the practicum site. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PCO 6948 Internship in Counseling
1-6 sh (may be repeated for up to 9.000 sh of credit)

The student functions as a staff member and participates in the full range of clinical and professional activities of the internship site under supervision. A weekly university based seminar will accompany field placement. Students in the 60sh M.A. Licensure Option must register for more than one term (total of 6sh required) and will complete a minimum of 850 hours of field placement, of which at least 240 will be in direct client contact. An internship paper and portfolio are required. Students in the 45sh M.A. degree program must complete 3sh with at least 300 hours of field placement. Graded on a satisfactory / unsatisfactory basis only. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PEL-Phys Ed Act:Obj Cent, Land Courses

PEL 1341 Beginning Tennis
3 sh (may not be repeated for credit)

Designed to introduce students to basic tennis strokes; rules; etiquette; terminology; basic tactics; strategy; and equipment.

PEM-Phys Ed Act:Perfo Cent, La Courses

PEM 1116 Body Shaping I

3 sh (may not be repeated for credit)

Designed to introduce body shaping exercises to students to help improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. This entry level class will cover yoga, Pilates, cardio karate, water aerobics, step aerobics, and basic training. Students will exercise using various types of equipment.

PEM 1120 Cardio Weightlifting and Endurance

3 sh (may not be repeated for credit)

Emphasizes the development of cardiovascular and muscular endurance through the use of free weights, weight machines, and cardio exercises. The exercises are based on the principle of circuit training through different exercise stations.

PEM 1121 Yoga I

3 sh (may not be repeated for credit)

Designed to train the student in basic Hatha yoga techniques. An ancient method of exercise as well as a method of spiritual meditation. the physical yoga training will occur during the class periods and there will be a learning module on-line for the student to complete. Each class will be a significant physical challenge. Students of all athletic abilities are encouraged to take the course.

PEM 1122 Yoga II

3 sh (may not be repeated for credit)

Prerequisite: PEM 1121

Designed to further the education and practice of Hatha Yoga. Advanced postures will be explored and the healing significance to each will be explained. Class meetings will be more strenuous than the Yoga I meetings. Strength moves and postures will be emphasized. Participants can enter Yoga II after completion of Yoga I or with the permission of the instructor. Students will be encouraged to develop their own potential abilities and style.

PEM 1141 Aerobic Conditioning

1 sh (may not be repeated for credit)

Designed to introduce aerobics to students to help improve overall physical fitness, improve cardio respiratory endurance, and help reduce body fat. Topics will include a wide variety of beginning level high-impact and low-impact aerobic activities designed to tax both the beginner and advanced student.

PEM 1162 Latin Cardio Groove

3 sh (may not be repeated for credit)

A Latin dance class that focuses on building fitness through the blending of Latin dance styles from the Merengue to Salsa with fitness techniques. The class is designed for non-dancers, dancers, and athletes.

PEM 1165 Hula Fit I

3 sh (may not be repeated for credit)

A beginning level hula dance class that focuses on building fitness through the use of Hawaiian and Tahitian Hula dance training and fitness techniques. Designed for non-dancers, dancers, and athletes.

PEM 1445 BEGINNING T'AI CHI

3 sh (may not be repeated for credit)

Introduces the 24-Step Ying Yang Style T'ai Chi form. Focuses on the internal & external elements of the form, the most recent research on the health benefits of T'ai Chi, and the history of this exercise.

PEM 2114 Cycle Fit

3 sh (may not be repeated for credit)

Students will participate in indoor cycling group workouts. Students will learn the proper use of cycle bikes for a safe and effective workout. Students will learn basic instruction techniques that will lay the foundation for learning to become a Cycle Fit instructor.

PEM 2126 Yoga Fitness

3 sh (may not be repeated for credit)

Students will learn information on the background of yoga, the many different types of yoga and the health benefits of participating in yoga fitness. The class includes a physical component in which students will participate in yoga fitness classes, designed to slowly progress through various sequences and poses of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a yoga fitness instructor.

PEM 2127 Pilates

3 sh (may not be repeated for credit)

Students will participate in Pilates classes to condition the core muscles of the body. The classes are designed to slowly progress through various exercises of increasing difficulty as the semester advances. In addition, the students will learn basic instruction techniques that will lay the foundation for learning to become a Pilates instructor.

PEM 2128 Pilates II

3 sh (may not be repeated for credit)

Continuation of the exercises of Joseph H. Pilates. Expanding on the principles of movement within the Pilates environment from intermediate to advanced mat exercises with the use of small props.

PEM 2179 Boot Camp Fitness

3 sh (may not be repeated for credit)

Students will participate in Boot Camp classes that will include aerobic exercise and anaerobic drills to improve endurance, strength, power, and agility. Classes will be designed to slowly progress through various exercises and drills of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a Boot Camp instructor.

PEM 2323 Rock Climbing

2 sh (may not be repeated for credit)

Survey of the principles of bouldering, rappelling, and top-rope rock climbing. Skills include climbing techniques, belaying, knot tying, anchor systems, self-rescue, and equipment. This is an experiential course, so a high degree of class participation is mandatory. Most days will involve climbing. Skills are practically tested at the Climbing Center and on the required weekend outdoor climbing trip.

PEM 2444 Shotokan Karate

1 sh (may be repeated for up to 3.000 sh of credit)

Examines the background and methods involved in karate and emphasizes traditional Japanese style known as Shotokan Karate. Offers the student instruction that will enable him/her to participate in regional, national, and international collegiate events including tournaments, special training clinics, weekend camps, and interaction with Shotokan Karate clubs and organizations at other universities. While learning self-defense techniques through physical practice and training, the student will learn the significance of mental discipline and health benefits involved in the practice of Shotokan Karate. Graded on satisfactory / unsatisfactory basis only.

PEM 2445 Shotokan Karate II
1 sh (may not be repeated for credit)
Prerequisite: PEM 2444

Advanced instruction in the traditional Japanese style of Shotokan Karate for students who have basic knowledge and experience with this style of Karate. Opportunities are provided for students to build on their experience and skill levels. Graded on satisfactory / unsatisfactory basis only.

PEM 2446 Shotokan Karate III
1 sh (may not be repeated for credit)
Prerequisite: PEM 2445

Advanced instruction at the third level for students who have beginning skills in Shotokan Karate. Opportunities will be provided to allow students to continue to build their skill levels and prepare for introductory competitive activities. Graded on satisfactory / unsatisfactory basis only.

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

PEP-Phys Ed Act:Water Snow Ice Courses

PEN 1121 Swimming (Beginning)
1 sh (may not be repeated for credit)

Equips students with basic water safety skills and knowledge to make them reasonable safe while in, on, or about the water. Introduction to swimming on front and back; additional training through skills designed to improve stamina and basic coordination. Other water sports will be introduced to add to the students' water experience. Graded on a satisfactory / unsatisfactory basis only.

PEN 1240 Beach Sports I
3 sh (may not be repeated for credit)

Designed to introduce beach sports to students in order to help improve overall physical fitness. This entry level class will cover sports including surfing, body boarding, windsurfing, ocean kayaking, beach volleyball, surf fishing, and jet skiing. Students will exercise using various types of beach equipment. Material and supply fee will be assessed.

PEN 2114 Lifeguard Training
3 sh (may not be repeated for credit)

Acquaint the students with the skills and knowledge necessary for the maintenance of a safe environment in aquatic settings. Red Cross certification is available. Aquatic skills are required. Material and Supply fee will be assessed (pending approval).

PEN 2123 Fitness Swimming
3 sh (may not be repeated for credit)

Designed to refine strokes so the student can swim with more ease, efficiency, power, and smoothness over greater distances. Ideal for the swimmer who may wish to enter competition or achieve a higher fitness level.

PEO-Phys Ed Act:Obj Cent, Land Courses

PEO 2031 Analysis of Individual Sports
3 sh (may not be repeated for credit)

Practicum in analytical techniques of skills involved in individual sports. Emphasis is on analysis, instructional design, and application of skills in a teaching situation.

PEO 3008 Sports Officiating II
3 sh (may not be repeated for credit)

Provides students an advanced look into sports and experiences related to the world and profession of sports officiating. Advanced principles, practices, responsibilities, techniques, and methods employed in sports officiating will be presented. Opportunities for employment in sports officiating will be discussed. Students will be required to observe officiating techniques and will be assigned officiating responsibilities in local sports programs. Credit may not be received in both PEO 3008 and PEO 3004.

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

PEP-Phys Ed Act:Perfo Cent Lan Courses

PEP 3505 Non-Traditional Sports
3 sh (may not be repeated for credit)

Designed for potential physical education teachers, sport administrators teachers and fitness and conditioning specialists. sports administrators. Emphasis on development of game performance and teaching/coaching skills in the most popular non-traditional sports in physical education and sports programs. Students are expected to participate in the class by teaching, coaching, practicing and learning sport skills.

PET-Physical Education Theory Courses

PET 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PET 2824 Analysis of Team Sports
3 sh (may not be repeated for credit)

Designed for potential physical education teachers and sports administrators. Emphasis is on development and understanding of skills in the most popular team sports in physical education and sports programs. Students are expected to participate in the class by teaching, coaching, practicing and learning sport skills. Skills are measured through midterm assessment (no physical performance standards, only cognitive understanding of game performance skills) and lesson assessment(teaching/coaching skill evaluation).

PET 3020 Foundations of Physical Education and Sport Management
3 sh (may not be repeated for credit)

For physical education and sport management majors. Designed to acquaint them with the knowledge and understanding related to the development of physical education and sport and its significance to modern society.

PET 3283 Sports Media
3 sh (may not be repeated for credit)

Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting.

PET 3640 Adapted Physical Education and Sport
3 sh (may not be repeated for credit)

Handicapping conditions and how physical activity is adapted to the special needs of individuals with these conditions.

PET 3825 Educational Gymnastics and Dance
3 sh (may not be repeated for credit)

Provides the physical education major with some fundamental knowledge and abilities of gymnastics, dance and how to teach these two areas. Helps the student understand the contribution of dance and gymnastics to the field of Physical Education.

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

PET 4310C Mechanics of Human Motion
4 sh (may not be repeated for credit)
Prerequisite: APK 3110/L OR MAC 1105 OR MAC 1114 OR MAC 2233 OR MAC 2311 OR MAC 2312 OR MGF 1106 OR MGF 1107 OR STA 2023

Anatomical, mechanical, analytical and functional aspects of human motor performance; emphasis upon analysis of joint actions and mechanical principles and their application to efficient movement. Anatomy and physiology are required. Material and supply fee will be assessed for corresponding lab.

PET 4380 Exercise Testing and Prescription
3 sh (may not be repeated for credit)
Prerequisite: APK 3110/L

Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class.

PET 4442 Physical Education in the High School
2 sh (may not be repeated for credit)
Co-requisite: PET 4928

Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities in the high school setting. Material and Supply Fee will be assessed.

PET 4632L Therapeutic Modalities in Athletic Training Laboratory
1 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4632

Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries.

PET 4710 Special Methods in Physical Education
3 sh (may not be repeated for credit)

Acquaints student with specific methods, problems, and issues involved in teaching physical education in public schools.

PET 4720 Physical Education in the Elementary School
2 sh (may not be repeated for credit)
Co-requisite: PET 4926

Designed to provide a knowledge base so prospective physical education teachers can plan and implement appropriate activities for the elementary school. Material and Supply fee will be assessed.

PET 4730 Physical Education in the Middle School
2 sh (may not be repeated for credit)
Co-requisite: PET 4927

Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities for the middle school student. Emphasis is placed on understanding the progression from middle school to the high school developmental curricula.

PET 4744 Student Teaching in Physical Education
6-10 sh (may not be repeated for credit)
Prerequisite: PET 4710

Fourteen weeks of supervised teaching in a public or private school. Student teaching assignments will be made by application in Teacher Education Student Assessment System. Permission is required.

PET 4765 Theory and Practice of Coaching
3 sh (may not be repeated for credit)
Prerequisite: PET 3351*

Introduction to coaching as a profession including ethical and legal considerations. Techniques and methods of coaching are explored. Active participation in a coaching internship in a selected sport and permission is required.

PET 4926 Practicum I: Elementary School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4720

Students will complete 30 hours of practical observation in elementary school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4927 Practicum II: Middle School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4730

Students will complete 30 hours of practical observation in middle school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 4928 Practicum III: High School Physical Education
1 sh (may not be repeated for credit)
Co-requisite: PET 4442

Students will complete 30 hours of practical observation in high school level physical education. A minimum of three hours per week will be spent observing in the assigned school setting. Completion of first two levels of Physical Education Teacher Education transition criteria must be met before assignment. Application for school assignment must be made in the Teacher Education Student Assessment System by the specified deadline. Contact your advisor for confirmation of this deadline.

PET 5389C Applied Physiology in Muscular Development
3 sh (may not be repeated for credit)

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

PET 5553 Clinical Exercise Testing and Interpretation
3 sh (may not be repeated for credit)

Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class. Course includes hands on experience in exercise testing with advanced equipment including hydrostatic weighing, environmental conditions, and blood glucose and lactate analysis. Course concludes with a student presentation of an exercise prescription based on testing results, medical and exercise history and risk stratification. Material and Supply fee will be assessed.

PET 5626 Rehabilitation of Athletic Injuries
3 sh (may not be repeated for credit)

Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 4623; graduate students will be assigned a research project as additional graduate work.

PET 5701 Systematic Observation in Sport and Physical Education
3 sh (may not be repeated for credit)

Students will learn to use a systematic approach to observe sport and physical education instruction. Emphasis will be on using published systematic observation instruments and the development of new instruments as objective tools for observation.

PET 5702 Advanced Management of Physical Education Programs
3 sh (may not be repeated for credit)

This course will prepare students to effectively use current curricular theory and administrative techniques to design and implement effective developmentally and instructionally appropriate physical education programs. Emphasis is placed on developing and implementing the instructional component of physical education programs.

PET 5708 Instructional Design in Physical Education
3 sh (may not be repeated for credit)

The aim of this course is to examine models of and current research related to physical education curriculum and instructional design in schools and Physical Education Teacher Education programs. This course will provide students with skills that will enable them to interpret, critique, and evaluate models and research of physical education curricula and instructional design in schools and PETE programs.

PET 5709 Advanced Curriculum in Physical Education
3 sh (may not be repeated for credit)

This course will assist students in developing knowledge and skills in the development and assessment of the physical education learning environment. An emphasis will be placed on current curricular theory and practices beyond those covered in undergraduate physical education programs.

PET 5805 Analysis and Supervision in Physical Education
3 sh (may not be repeated for credit)

This course prepares students to analyze instructional quality in physical education teaching and program design.

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

PET 6003 Advanced Theoretical Models of Health and Physical Education
3 sh (may not be repeated for credit)

Provides the student with knowledge of common theoretical models used in health and physical education and the skills to use the theories in practice.

PET 6015 Professional Issues in Physical Education
3 sh (may not be repeated for credit)

This course will assist students in understanding the professional issues and concerns that are an inherent part of the physical education profession and to use that understanding to effective and positive participation in the profession of teaching physical education. Credit may not be received in both PET 6015 and PET 6010.

PET 6074 Successful Aging: Physiological Aspects
3 sh (may not be repeated for credit)

Designed to assist the student in developing an understanding of the complex changes that accompany advancing age and an appreciation for the functional consequences of these changes for subsequent behavior. Emphasis will be placed on the evaluation of cardiovascular, respiratory, musculoskeletal, and body composition changes with advancing age.

PET 6516 Advanced Assessment and Evaluation in Health and Physical Education
3 sh (may not be repeated for credit)

Prepares doctoral students to assess student learning in PreK-12 and higher education settings and to conduct effective program evaluations.

PET 6535 Strategic Planning and Instructional Design in PE and Health
3 sh (may not be repeated for credit)

Examines instructional models, planning theory, and current research related to physical education and health curriculum and instructional design in K-12 schools and in higher education. Introduces students to the process of planning and designing elementary, secondary, and higher education physical education and health programs.

PET 6706 Analysis of Research on Teaching in Physical Education
3 sh (may not be repeated for credit)

The purpose of this course is to introduce students to various streams of research in physical education and help them to critically analyze the quality of that research and its influence on the teaching and learning process in physical education.

PET 6707 Research on Physical Education/Teacher Education
3 sh (may not be repeated for credit)

This course is designed to examine the development, design, and application of the research in physical education/teacher education.

PET 6708 Research on Teaching Physical Education and Health
3 sh (may not be repeated for credit)

Provides students with skills to interpret, critique, and evaluate research in physical education and health teaching. Attention focused on the application of research within the context of physical and health education teaching.

PET 6774 Models of Teaching in Physical Education and Health
3 sh (may not be repeated for credit)

Provides theory and practice in teaching strategies designed to facilitate learner achievement in the cognitive, affective, and psychomotor domains.

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

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

PGY-Photography Courses

PGY 2401C Photography as Art Form: Basic Camera
3 sh (may not be repeated for credit)

Basic theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of basic techniques and aesthetic concerns in relation to the photographic image. Includes basic darkroom experience. Invites all students. Material and supply fee will be assessed.

PGY 3420C Photo Art II
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C

Development of advanced techniques and concerns in relation to the black and white photographic image. Emphasis on exploration as a means of creative artistic expression. Material and supply fee will be assessed.

PGY 3500C Photographic Imaging as an Art Form
3 sh (may not be repeated for credit)
Prerequisite: ART 2201C

Theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of techniques, aesthetic concerns, and teaching methodology in relation to the photographic image. Includes darkroom lab experience. For art education students. Material and supply fee will be assessed.

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

PGY 4104C Creative Darkroom
3 sh (may not be repeated for credit)
Prerequisite: PGY 2401C

In-depth exploration of the use of darkroom techniques, procedures, and manipulations as an artistic means to the development of advanced techniques and aesthetic concerns in relation to the altered photographic image. Material and supply fee will be assessed.

PGY 4823 Advanced Digital Photography
3 sh (may not be repeated for credit)
Prerequisite: ART 2600C AND ART 3660C

An advanced class in image manipulation with emphasis on Adobe Photoshop, use of the film recorder, darkroom techniques, and photo history and theory. Designed for artists who are interested in learning how to manipulate photographic and computer created images into finished photographs. Manipulating images and controlling equipment and images, working between the darkroom and the computer, and integrating traditional photographic processes with experimental processes are included. Material and Supply fee will be assessed.

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

PGY 4940C Photography: Personal Directions
3 sh (may be repeated for up to 9.000 sh of credit)
Prerequisite: PGY 2401C

Fosters the development of personal expression within the framework of black-and-white photography as an art form. Covers advanced camera and darkroom techniques, as appropriate to the individual's direction. Material and Supply fee will be assessed.

PHC-Public Health Concen Courses

PHC 4101 Public Health
3 sh (may not be repeated for credit)

Course teaches basic terms and definitions of public health and the factors leading to disease causation as well as disease prevention. Students study programs and policies that 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. Permission is required. Credit may not be received in both PHC 4101 and PHC 4100.

PHC 4109 Scientific Basis of Public Health
3 sh (may not be repeated for credit)

An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling. Offered concurrently with PHC 5123; graduate students will be assigned additional work.

PHC 4140 Public Health Planning and Analysis
3 sh (may not be repeated for credit)

This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National, state, and local level practices will be analyzed, as well as the role that law and government play in the public's health. The course is also intended to simulate student interest in other public health courses and program offerings. Graduate students will be assigned additional work.

PHC 4340 Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)

An online-multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 5356; graduate students will be assigned additional work.

PHC 4341 Fundamentals of Occupational Safety and Health
3 sh (may not be repeated for credit)

Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 5355; graduate students will be assigned additional work.

PHC 4363 Occupational Safety and Health in the Health Care Environment
3 sh (may not be repeated for credit)

A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in health care, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Permission is required. Offered concurrently with PHC 5351; graduate students will be assigned additional work.

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

PHC 5050 Biostatistics for Public Health
3 sh (may not be repeated for credit)

This is a second course in statistics for students in the Public Health and Allied Health. The topics include descriptive statistics, probability, standard probability distributions, sampling distributions, point and confidence interval estimation, hypothesis testing, power and same size estimation, one and two-sample parametric and non-parametric methods for analyzing continuous or discrete data, simple linear regression, logistic regression and other multivariate methods. The SAS statistical software package will be taught in this class for data management statistical analysis and power calculations. This is a fully online course with its own office hours and discussions. STA 2023 or equivalent is a pre-requisite for this course (see UWF Catalog). It is important to have a good understanding of inferential statistics, such as confidence intervals and test of hypotheses (for two samples).

PHC 5102 Public Health
3 sh (may not be repeated for credit)

This course introduces students to the history of public health, the structure of the public health system and the various sectors of public health practice, in order to gain an understanding of the complex factors that determine the health status of a community. Lectures will draw from the public health field, but also related disciplines such as behavioral sciences, healthcare management, medical ethics, and social work. National state, and local level practices will be analyzed, as well as the role that law and government play in the public's health. The course is also intended to stimulate student interest in other public health courses and program offerings.

PHC 5108 Public Health Planning and Analysis
3 sh (may not be repeated for credit)

An introduction to geographic information systems (GIS) in healthcare and public health data analysis in the health sciences. This online course covers basic GIS skills through homework and case studies. It is a required course in the proposed Public Health major in the Bachelor of Science in Health Sciences degree program and the undergraduate Medical Informatic Certificate Program.

PHC 5123 Scientific Basis of Public Health
3 sh (may not be repeated for credit)

An overview of scientific principles of public health and their application to public health problems with significant state, national and international impact. It is recommended that students have at least one semester of a college science such as, biology or a comparable course before enrolling. Offered concurrently with PHC 4109 Scientific Basis of Public Health); graduate students will be assigned additional work.

PHC 5351 Occupational Safety and Health in the Health Care Environment
3 sh (may not be repeated for credit)

A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in healthcare, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Offered concurrently with PHC 4363; graduate students will be assigned additional work.

PHC 5355 Fundamentals of Occupational Safety and Health
3 sh (may not be repeated for credit)

Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 4341; graduate students will be assigned additional work.

PHC 5356 Fundamentals of Industrial Hygiene
3 sh (may not be repeated for credit)

An on-line multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 4340; graduate students will be assigned additional work.

PHC 5410 Social and Behavioral Sciences in Public Health
3 sh (may not be repeated for credit)

Covers behavioral and social science contributions to science disciplines, including psychology, sociology, and anthropology, will be reviewed and integrated with public health objectives and outcomes. Using a biopsychosocial framework, the role of social, psychological, and behavioral factors in health and illness are emphasized.

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

PHC 6000 Epidemiology for Public Health Professionals
3 sh (may not be repeated for credit)

To enable the student to understand epidemiology as a discipline and how epidemiology, as the basic science of public health, provides information for disease prevention and treatment.

PHC 6005 Disease Transmission in the Urban Environment
3 sh (may not be repeated for credit)

Focuses on disease transmission in the urban community and how interaction between human behaviors and environmental changes contribute to the spread of disease in urban areas in developed and developing countries.

PHC 6015 Epidemiological Study Design and Statistical Methods
3 sh (may not be repeated for credit)

Experimental, quasi-experimental, observational, survey, surveillance, and qualitative study designs will be reviewed. Methods for reliable and valid data collection and analysis will be covered. An overview of statistical methods for the analysis of public health data will be provided.

PHC 6150 Public Health Policy
3 sh (may not be repeated for credit)

The course explores general principles of planning, management, and evaluation of health care programs, policies and interventions implemented by public and private organizations. The basic conceptual frameworks underlying healthcare decision making and assessment of the financing, organization, outcomes and delivery of healthcare services are presented.

PHC 6194 GIS Applications in Public Health
3 sh (may not be repeated for credit)

An online course presenting an overview of geographic information systems for the analysis of public health data. Course imbeds learning how to use GIS software in the context of carrying out projects for visualizing and analyzing health-related data. Part of the Master of Public Health degree program.

PHC 6196 Computer Applications in Public Health
3 sh (may not be repeated for credit)

Provides an overview of various computer applications in public health and introduces modern software systems for analyzing health-related data. Fundamentals of data collection, statistical analysis, interpretation, and reporting results are covered. Technology-based implications for legal and ethical issues are also addressed (including documentation, security, and regulatory requirements). Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching; Training in a health care-related field at the Associate's or Bachelor's level is required. Material and Supply Fee will be assessed.

PHC 6251 Disease Surveillance and Monitoring
3 sh (may not be repeated for credit)

Disease surveillance and monitoring is the systematic collection, analysis, interpretation, and dissemination of data for use in prioritizing, planning, implementing, and evaluating health programs, activities and practices in the United States as well as in other developed and developing countries. Will focus on these fundamental processes and procedures which are utilized to investigate and track infectious and communicable diseases as well as non-infectious chronic diseases.

PHC 6300 Environmental Health
3 sh (may not be repeated for credit)

Students will be given an overview of the chemical, physical, and biological hazards present in our living and working environment and their effects on human health. Credit may not be received in both PHC 6300 and PHC 6018.

PHC 6310 Environmental Toxicology
3 sh (may not be repeated for credit)

Environmental toxicology is the study of the effects of toxic substances on health and the environment. The student will recognize that human survival depends upon the well-being of other species and upon the availability of clean air, water, and food; and anthropogenic, as well as naturally occurring, chemicals can have detrimental effects on living organisms and ecological processes. Concepts to be covered include occurrence of toxicants, damage process and action of toxicants, factors affecting xenobiotic action, defense responses to toxicants, and others. Will also examine chemicals of environmental interest and how they are tested and regulated. Case studies and special topics will be examined.

PHC 6347 Aerospace and Occupational Toxicology
3 sh (may not be repeated for credit)

Part of the MPH program for military Residents in Aerospace Medicine.

PHC 6360 Accident Investigation and Risk Management
3 sh (may not be repeated for credit)

Accident Investigation & Risk Management includes an aerospace safety overview, biomechanics of impact, restraint systems, crew protection, and crew escape concepts, aviation and space vehicle crashworthiness, aerospace injury mechanisms, conduct of an accident investigation, forensic concepts, legal issues, and promoting prevention strategies to avoid future accidents. Students in MPH degree program, and need special permission from instructor.

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

PHC 6946 Internship in Public Health
3 sh (may be repeated for up to 6.000 sh of credit)

An internship in a public health agency or setting. Under supervision by an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor, students will work on a problem related to management, development or administration of a program in public health or related to research in public health. A student may only request a waiver for up to 3 hours of the internship credit. A written report on the internship experience is required and the report must be presented before a committee of MPH faculty. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

PHH-Philosophy: History Courses

PHH 3100 Greek Philosophy
3 sh (may not be repeated for credit)

Development of ancient Greek philosophy; pre-Socratic, Plato, Aristotle and Hellenistic philosophy.

PHH 3400 Modern Philosophy
3 sh (may not be repeated for credit)

Development of modern philosophy from Renaissance through 18th century; Descartes, Locke, Berkeley, Hume, Spinoza, Leibniz and Kant.

PHH 4200 Medieval Philosophy
3 sh (may not be repeated for credit)

History of medieval philosophy from Augustine to Ockham, including such issues as the existence of God, the problem of evil, free will and the nature of human knowledge.

PHH 4600 Contemporary Philosophy
3 sh (may not be repeated for credit)

20th century developments in philosophical thought. May include logical positivism, linguistic analysis and phenomenological analysis.

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

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

PHI-Philosophy Courses

PHI 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

PHI 2010 Introduction to Philosophy
3 sh (may not be repeated for credit)

Nature of philosophical thinking, discussion of fundamental and perennial problems of philosophy. General Education: Humanities - Contemporary Values and Expressions. Gordon Rule: Writing.

PHI 2103 Critical Thinking
3 sh (may not be repeated for credit)

This course will introduce students to the fundamentals of critical thinking, argument, conceptual analysis and evidence. Students will learn how to think critically, read actively, and write persuasively across a variety of contexts. Appropriate for and applicable to any major. General Education: Humanities - Contemporary Values and Expressions. Gordon Rule: Writing.

PHI 2603 Ethics in Contemporary Society
3 sh (may not be repeated for credit)

Explores the fundamental problems of Western ethics, the classical and Judeo-Christian traditions, modern ideals of the good for the individual business, politics and the environment. General Education: Humanities - Contemporary Values and Expressions. Gordon Rule: Writing.

PHI 3130 Modern Logic
3 sh (may not be repeated for credit)

Training and skills of modern symbolic logic and their application to evaluation of arguments. Propositional logic, predicate logic.

PHI 3320 Philosophy of Mind
3 sh (may not be repeated for credit)

Introduces and examines proposed theories, from philosophy as well as the brain and behavioral sciences, regarding various aspects of the mind-body problem: mental representation, consciousness, mental imagery, innateness, the language of thought and the computer model of the mind, etc. Gordon Rule: Writing.

PHI 3400 Philosophy of Science
3 sh (may not be repeated for credit)

Concepts and types of explanation used in sciences. May include differences between natural and social sciences, inductive reasoning and scientific explanation, and relation of science to society.

PHI 3452 Philosophy of Biology
3 sh (may not be repeated for credit)

Philosophy of biology focuses on evolutionary theory, examining such questions as "what is a gene", "what does natural selection select" and "what are the moral/social implications of evolutionary theory"?

PHI 3500 Metaphysics: Furniture of the Universe
3 sh (may not be repeated for credit)

Metaphysics is the study of everything. Hence this course is about all the stuff in the universe, and perhaps even some stuff not in the universe. It would probably be fair to say that metaphysics is concerned with identifying what the furniture of the universe is. Additionally, metaphysicians worry about not just what the actual furniture of the universe is, but what are the possible kinds of furniture that may populate the universe. Metaphysics also seeks to uncover the fundamental principles that govern reality (and possible realities?). Due to the vastness of the domain of metaphysical topics, we will restrict our attention to a small sample of topics?ones that are, or should be, near and dear to us for they bear on our lives as citizens of the universe. For example, do you have free will? Do you have a mind? Do numbers exist? Is time travel possible? What is time, anyway? Are there naturally occurring categories of stuff in the universe? Could the world have turned out differently than it did? A well rounded background in philosophy includes, among other things, conversance with central topics in metaphysics; this course aims to provide just that. Offered Fall and Spring semester only. Gordon Rule: Writing.

PHI 3640 Environmental Ethics
3 sh (may not be repeated for credit)

Introduces students to issues and problems in the field of environmental ethics. Theories of value are investigated in the effort to clarify the interrelations between humanity and nature. Discussions concerning the moral status of the non-human community will not be restricted to debates over value theory alone, but will also encompass metaphysical issues that bear upon environmental problems.

PHI 3670 Ethics
3 sh (may not be repeated for credit)

Philosophical theories concerning nature of the good, moral obligation, human excellence and application of ethical theory to problems of the individual in relation to society.

PHI 3700 Philosophy of Religion
3 sh (may not be repeated for credit)

Problem of religious language. Arguments for atheism and existence of God. Phenomenology of religious experience. Problems of evil and nature of God. Theories of immortality. Gordon Rule: Writing.

PHI 3800 Philosophy of Art
3 sh (may not be repeated for credit)

Creative process-artist and percipient. Various art forms: painting, sculpture, architecture, literature, theatre, music. Theories of evaluation. Artist and community; commercialism, propaganda and pornography.

PHI 3880 Philosophy of Film
3 sh (may not be repeated for credit)

Investigates the major theoretical and conceptual issues surrounding the art of film. Philosophical concepts underlying film theories such as realism, formalism, hermeneutics, and structuralism will be examined and applied to cinematography, editing, sound, and mise en scene. Other conceptual issues may include perception, representation, narrative, and ideology.

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

PHI 4300 Theory of Knowledge
3 sh (may not be repeated for credit)

Various theories of relation between human knowledge and reality; empirical, rationalistic, linguistic and phenomenological. Gordon Rule: Writing.

PHI 4633 Biomedical Ethics
3 sh (may not be repeated for credit)

Designed to introduce students to the moral and conceptual foundations of ethics, to various ways of analyzing selected problems in the field, and applications of various theories to the professions.

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

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

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

PHM-Philosophy of Man Soc Courses

PHM 3200 Social and Political Philosophy
3 sh (may not be repeated for credit)

Social and political theories and ideals that have influenced development of Western man; significance of these for contemporary society.

PHM 4020 Philosophy of Sex and Love
3 sh (may not be repeated for credit)

Intended to familiarize you with the major philosophical and moral issues surrounding our sexuality and its attendant emotions. Will draw upon thinkers from within the history of Western Philosophy and psychology - including Plato, Augustine, Kant, Freud, DeBeauvoir and Nagel.

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

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

PHP-Philosophers Schools Courses

PHP 3786 Existentialism
3 sh (may not be repeated for credit)

Basic concepts and ways of experiencing the world through various existential writers. May include Hegel, Kierkegaard, Nietzsche, Jaspers, Sartre, Heidegger and Merleau-Ponty.

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

PHY-Physics Courses

PHY 1020 Introduction to Concepts in Physics
3 sh (may not be repeated for credit)

An introductory survey of the natural laws of the universe. Presents the basic concepts associated with the scientific method, force and motion, matter and energy, electricity and magnetism, the atom and the solar system. Open to elementary education and other non-science majors. General Education: Natural Sciences - Lecture.

PHY 1020L Introduction to Concepts in Physics Laboratory
1 sh (may not be repeated for credit)

An introductory laboratory providing hands-on experience with basic experiments in physics involving the concepts of force and motion, matter and energy, electricity and magnetism, and the atom. Open to elementary education and other non-science majors. General Education: Natural Sciences - Laboratory.

PHY 2048 University Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Linear and rotational motion of objects in 1, 2, and 3 dimensions, concepts of work and energy, oscillations and waves, heat and thermodynamics. General Education: Natural Sciences - Lecture.

PHY 2048C University Physics I - Studio
5 sh (may not be repeated for credit)
Prerequisite: MAC 2311

University Physics I - Studio course is intended for physical science majors and engineers, and designed to be taken as a sequence with University Physics II (PHY 2049). This is a calculus based physics course. The principal topics covered in this course are mechanics-the science of motion- (kinematics and dynamics) of particles and rigid bodies including the laws of motion, conservation laws and principles, gravity, oscillations, fluid statics, and Thermodynamics.

PHY 2048L University Physics I Lab
1 sh (may not be repeated for credit)
Prerequisite: PHY 2048*
Co-requisite: PHY 2048

Selected experiments in mechanics, oscillatory motion, and heat. General Education: Natural Sciences - Laboratory.

PHY 2049 University Physics II
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312 AND PHY 2048

Continuation of PHY 2048. Electrostatics and magnetism; basic electric circuits; optics; selected topics in modern physics. General Education: Natural Sciences - Lecture.

PHY 2049C University Physics II with Lab

6 sh (may not be repeated for credit)

Prerequisite: MAC 2312 AND PHY 2048C

University Physics II is the second of a two-semester sequence of physics topics chosen as an introduction to this science. This is a calculus-based physics course. The topics covered will be electricity and magnetism, basic electric circuits, electromagnetic waves, and optics. University Physics II is designated as a General Education course. The General Education curriculum at the University of West Florida is designed to provide a cohesive program of study that promotes the development of a broadly educated person and provides the knowledge and skills needed to succeed in university studies. This course has been approved as meeting the requirement in Natural Sciences. The General Education learning outcomes for this course are Problem Solving and Quantitative Reasoning. General Education: Natural Sciences - Combined Lecture and Laboratory.

PHY 2049L University Physics II LAB

1 sh (may not be repeated for credit)

Prerequisite: PHY 2048L AND PHY 2049*

Selected experiments in optics, electricity, and magnetism. General Education: Natural Sciences - Laboratory.

PHY 2053 General Physics I

3 sh (may not be repeated for credit)

Prerequisite: MAC 1105 OR MAC 1114 OR MAC 2311

Mechanics, heat, waves, and sound. General Education: Natural Sciences - Lecture.

PHY 2053L General Physics I Laboratory

1 sh (may not be repeated for credit)

Selected experiments in mechanics, oscillatory motion, and heat. General Education: Natural Sciences - Laboratory.

PHY 2054 General Physics II

3 sh (may not be repeated for credit)

Prerequisite: PHY 2053

Continuation of PHY 2053. Light, electricity and magnetism; elementary quantum theory; atomic, nuclear and particle physics. General Education: Natural Sciences - Lecture.

PHY 2054L General Physics II Laboratory

1 sh (may not be repeated for credit)

Prerequisite: PHY 2053L AND PHY 2054*

Selected experiments in optics, electricity, and magnetism. General Education: Natural Sciences - Laboratory.

PHY 2905 Directed Study

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

PHY 3106 Modern Physics I

3 sh (may not be repeated for credit)

Prerequisite: PHY 2049

Introduction to modern physics, theory of relativity, electromagnetic waves and photons, matter waves, quantum theory, atomic structure, quantum mechanics.

PHY 3106L Modern Physics Laboratory

2 sh (may not be repeated for credit)

Selected experiments in modern physics and optics. Material and supply fee will be assessed.

PHY 3107 Modern Physics II

3 sh (may not be repeated for credit)

Prerequisite: PHY 3106

Special topics in modern physics: quantum mechanics, atomic structure, molecular structure, atomic and molecular spectra, physics of solids, and band structure, nuclear structure, nuclear forces, radioactive decay and nuclear reactions, elementary particles, and fundamental interactions.

PHY 3220 Intermediate Mechanics

4 sh (may not be repeated for credit)

Prerequisite: MAP 2302* AND PHY 2048

Particle mechanics in 1, 2 and 3 dimensions for various forces. Central forces and celestial mechanics. Systems of many particles. Rigid body dynamics. Introduction to Lagrangian methods.

PHY 3424 Optics

3 sh (may not be repeated for credit)

Prerequisite: PHZ 4113

Geometrical, physical, and modern optics. Polarization, interference, diffraction, holography, and optical fibers.

PHY 3905 Directed Study

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

PHY 4323 Electricity and Magnetism I

3 sh (may not be repeated for credit)

Prerequisite: PHZ 4113

Electrostatics, Gauss's Theorem, magnetic fields, Biot-Savart Law, electromagnetic induction, introduction to Maxwell's Equations, and electromagnetic waves.

PHY 4325 Electricity and Magnetism II

3 sh (may not be repeated for credit)

Prerequisite: PHY 4323

Maxwell's equations and electromagnetic waves in vacuum and in a medium, radiation from dipoles and antennas, transmission lines, wave guides, relativistic electrodynamics, Lienard-Weichert Potentials.

PHY 4445 Lasers and Applications

3 sh (may not be repeated for credit)

Prerequisite: PHY 2049

Introduction to lasers and applications covering topics on nature of light, photons, elements of semi-conductor physics, modulation of light, displays, laser principles, types of lasers and their design, photodetectors, fiber optics, optical communications.

PHY 4513 Thermodynamics and Kinetic Theory

3 sh (may not be repeated for credit)

Prerequisite: MAC 2313 AND PHY 2048

Co-requisite: PHZ 4113

Laws of thermodynamics, thermodynamic potentials, kinetic theory of gases, Maxwell-Boltzman distribution, introduction to Bose Einstein and Fermi-Dirac statistics.

PHY 4604 Quantum Theory I

3 sh (may not be repeated for credit)

Prerequisite: PHY 3107

This is the first semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics and is an introduction to the main concepts and tools for applying quantum mechanics to a variety of different problems.

PHY 4605 Quantum Theory II
3 sh (may not be repeated for credit)
Prerequisite: PHY 4604

This is the second semester of a two semester undergraduate level course covering the theory of quantum mechanics. This theory is the foundations of modern physics. This course emphasizes the application of quantum mechanics to a variety of problems. Offered Spring semester only.

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

PHY 4910 Undergraduate Research
1-2 sh (may be repeated for up to 10.000 sh of credit)
Co-requisite: PHY 3106

Undergraduate experimental or theoretical research under the direction of physics faculty.

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

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

PHZ-Physics (Continued) Courses

PHZ 3108 Intermediate-Level Physics Problems
1 sh (may not be repeated for credit)
Prerequisite: PHY 2049

Practicum in the art of solving problem across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core.

PHZ 4113 Mathematical Physics I
3 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Algebra of complex numbers, Taylor series, Fourier series, vector algebra and calculus, and curvilinear coordinates.

PHZ 4114 Mathematical Physics II
3 sh (may not be repeated for credit)
Prerequisite: PHZ 4113

Special functions, boundary value problems, partial differential equations, series solutions, and integral transforms.

PLA-Paralel/Legal As/Legal Adm Courses

PLA 2013 Survey of American Law
3 sh (may not be repeated for credit)

Study of American law, focusing on why there are laws, as well as who makes and enforces the laws. Covers what is commonly known as "everyday law," that is, how law affects us in our daily lives. Credit may not be earned in both PLA 2057 and PLA 2013. General Education: Social Science - Socio-Political Perspectives.

PLA 2948 Service Learning Field Study I
1-3 sh (may be repeated for up to 4.000 sh of credit)

A cooperative effort between the UWF Legal Studies Program, the UWF Center for Learning Through Volunteer Efforts (CLOVE), and a public or private law-related office. Allows students the opportunity to focus on various learning objectives in a potential career field. Students work under the overall supervision of a licensed attorney or other legal professional at the placement site. Permission is required.

PLA 3020 Law and Society
3 sh (may not be repeated for credit)

Exploration of how the legal system interacts with social issues, such as the death penalty, domestic violence, slavery, abortion, and lifestyle choice. Credit may not be earned in both PLA 3691 and PLA 3020.

PLA 3021 Law and Film: Fact or Fiction
3 sh (may not be repeated for credit)

Films may capture not only facts, but also emotions that occur in the pursuit of justice. Films chosen illustrate the complexities of legal and justice issues, the involvement of various stakeholders in the system and the merit or lack of merit of character's decision-making. Highlights the practice of law, stakeholders, judicial processes, as well as interactions with society and politics.

PLA 3103 Legal Research and Writing
3 sh (may not be repeated for credit)

Introduces the student to the sources, tools and techniques of legal research and writing including, but not limited to, primary and secondary sources covering judicial, legislative and executive branches. Permission is required. Credit may not be earned in both PLA 3103 and PLA 4103.

PLA 3240 Alternative Dispute Resolution
3 sh (may not be repeated for credit)

Introduces students to different alternative dispute resolutions (ADR) methods as a means of peacefully communicating with another person regarding a conflict and working together to find a solution in an appropriate manner. Eight basic methods of ADR, and several hybrids, will be explained in detail. Presents ADR against the backdrop of traditional litigation, which offers a more formal, and generally more costly, method of resolving disputes. Asks students to evaluate disputes and disputants and to select the most appropriate method for resolving a matter.

PLA 3429 Contracts and Business Entities
3 sh (may not be repeated for credit)

Overview of contract law, and law related to business entities such as corporations, partnerships, and sole proprietorships.

PLA 3471 Employment Law
3 sh (may not be repeated for credit)

Designed for students interested in the subject of employment discrimination from many approaches: as a practitioner in the legal field, as an employer, as an advisor to employers, as an employee, or as an advisor to employees. The focus will be on the basic laws of employment discrimination, the means and methods of seeking the protections of those laws, and the means and methods of employers assuring compliance with the laws.

PLA 3613 Property Law and Transactions
3 sh (may not be repeated for credit)

Covers contracts for the sale of land, forms, or real estate ownership, steps involved in a real estate transaction, drafting of leases, purchases, and sales agreements, drafting of mortgages and notes, drafting of deeds, preparing and executing a complete real estate closing and preparing a title search and real estate abstract.

PLA 3703 The Legal System and Ethics
3 sh (may not be repeated for credit)

Applications of legal studies. Students will explore options in legal studies, professional development, and legal ethics. Credit may not be received in both PLA 3703 and PLA 3700.

PLA 3806 Family Law

3 sh (may not be repeated for credit)

Law of family relations including marriage, divorce, support, property division, custody, paternity, adoption, and annulment. Credit may not be earned in PLA 3806 and either PLA 3800.

PLA 3905 Directed Study

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

PLA 3948 Service Learning Field Study II

1-3 sh (may be repeated for up to 4.000 sh of credit)

A cooperative effort between the UWF Legal Studies Program, the UWF Center for Learning Through Volunteer Efforts (CLOVE), and a public or private law-related office. Allows students the opportunity to focus on various learning objectives in a potential career field. Students work under the overall supervision of a licensed attorney or other legal professional at the placement site. Permission is required.

PLA 4155 Legal Advocacy

3 sh (may not be repeated for credit)

Prerequisite: PLA 3103

Emphasis is on improving legal writing ability through the use of practical writing assignments, including case briefs, legal correspondence, legal memoranda, and trial briefs. Gordon Rule: Writing.

PLA 4204 Civil Procedure

3 sh (may not be repeated for credit)

Civil litigation in the Florida and Federal courts. Covers substantive civil law, Florida and Federal rules of civil procedure and related matters from initial interview through pre-trial preparation including drafting of pleadings and preparing discovery.

PLA 4225 Trial Practice

3 sh (may not be repeated for credit)

Prerequisite: PLA 4204*

A case through the trial process from opening statements through verdict.

PLA 4263 Evidence

3 sh (may not be repeated for credit)

Rules of evidence, including relevancy, hearsay, competency of witnesses and burdens of proof. The Federal Rules of Evidence are emphasized.

PLA 4277 Tort Law

3 sh (may not be repeated for credit)

In-depth study of the fundamental principles of negligence, intentional torts, strict liability, product liability, and vicarious liability. Credit may not be received in both PLA 4277 and PLA 4273.

PLA 4306 Criminal Law

3 sh (may not be repeated for credit)

Examination of the major substantive crimes, including homicide, burglary, arson, offenses against the person, and offenses against property. The concepts of criminal responsibility, parties to crime, causation, and special legal defenses are also studied. Credit may not be received in both PLA 4306 and PLA 4304.

PLA 4309 Criminal Procedure

3 sh (may not be repeated for credit)

The study of criminal procedure is a fascinating one which involves an examination of the power of the government to enforce the criminal law versus the right of individuals to be free from government intrusions, as guaranteed by the Constitution. Will help students develop critical analysis skills by examining the constitutional framework for the enforcement of criminal law. After examining the constitutional provisions that effect and affect criminal procedure, we will then examine these principles in action by focusing on police practices including searches, seizures, interrogations, identification procedures, and arrests. Finally we will study the criminal court process from the charging decision through the appeals process.

PLA 4554 Environmental Law and Jurisprudence

3 sh (may not be repeated for credit)

The evolution of both American and international environmental law is explored through a review of the basic, existing environmental laws and regulations, with a jurisprudential/philosophical look at the underlying issues and principles of environmental law, using an interdisciplinary approach.

PLA 4607 Wills, Estates, and Trusts

3 sh (may not be repeated for credit)

Covers the need for estate planning, drafting and execution of basic wills, the laws of intestate succession, the purposes of trusts, formal and informal probate administration and the tax consequences of wills and trusts. Credit may not be received in both PLA 4607 and PLA 4601.

PLA 4843 Immigration Law

3 sh (may not be repeated for credit)

PLA 4885 Constitutional Law for the Paralegal

3 sh (may not be repeated for credit)

Seeks an integration of the study of the Constitution with the pragmatics of the practice of law for the paralegal. Introduces the basic concepts of the Constitution in the light of how Constitutional issues arise in the modern practice of law and how to prepare to meet these arguments. Covers Supreme Court jurisdiction, how to read Supreme Court cases, separation of powers, Federalism, Commerce Clause, Due Process cases, First Amendment, Privacy, and Equal Production. Will be focusing on issues confronted in modern courts and law office. Credit may not be received in both PLA 4885 and PLA 4880.

PLA 4905 Directed Study

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

PLA 4933 Special Topics in Legal Studies

3 sh (may be repeated for up to 12.000 sh of credit)

The study of special issues in legal studies. Subject matter will vary depending upon the issue(s) selected for study (e.g., philosophy of law).

PLA 4941 Legal Studies Internship

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

Prerequisite: PLA 3703 AND PLA 4103 AND PLA 4204 AND PLA 4263

Individual field experience in law-related offices including private attorneys, public agencies, and alternative dispute resolution firms. Graded on a satisfactory/unsatisfactory basis only. The student intern works under the overall supervision of a licensed attorney at the internship placement site. Permission is required.

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

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

POR-Portuguese Courses

POR 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

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

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

POS-Political Science Courses

POS 2041 American Politics
3 sh (may not be repeated for credit)

Deals with the constitutional principles on which the republic was founded, the evolution of institutions which emerged after 1789, and the development of processes and policies in response to 20th Century challenges and changes in the political culture. General Education: Social Science - Socio-Political Perspectives.

POS 3013 Professional Development
1 sh (may not be repeated for credit)

This course prepares students with the necessary skills to succeed in the workplace after graduation. Emphasis will be placed on becoming familiar with the various industries that value degrees in political science, international studies, and pre-law. Students will become familiar with the vast body of political science literature, develop scientific communication skills, and also learn practical skills such as how to write a good resume, and navigating the professional world of interviews and networking. An in-class quiz may be given on the reading. This course will host various guest speakers.

POS 3033 Analyzing Issues in American Politics
3 sh (may not be repeated for credit)

From the education of our children to the safety of our airlines, those who make the laws affect each of our lives on a daily basis. Rarely, however, is the public aware of the process by which new ideas become law of the reasons why archaic policy solutions are left unchanged. A survey of contemporary issues in American politics such as energy and the environment, education, health care, welfare programs, crime and the economy. Throughout the semester, we will grapple with competing theories and competing methodologies for describing, analyzing, and evaluating what governments do in the political world in which we currently live.

POS 3072 Women and Politics
3 sh (may not be repeated for credit)

The evolution of women's involvement in politics, as voters, activists, candidates, and public officials. The history of the women's movement will be traced from the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Examines the contemporary participation of women in American political institutions, particularly the U.S. Congress and state legislatures. Outlines the character and substance of women's participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 3235 Politics and Media
3 sh (may not be repeated for credit)

This course will study several major questions about the role of the media in society, and specifically in politics. Readings will address the media's purpose in society as the fourth branch of government; ownership and regulation of the media; legal protections for free speech; and the process of news production. In addition, readings and class assignments will explore special topics related to the media. What is the history and future of the media in a changing technological environment? How are elections and public policy decisions impacted by the media? How does the media influence us individually? What are the effects of negativity in the media? How can one detect bias in the media, and how can one recover from its effects? Additionally, readings and assignments will explore the production of foreign affairs news coverage and its impact on voters.

POS 3413 The Presidency
3 sh (may not be repeated for credit)

We begin our exploration of the American presidency with a critical overview of the constitutional parameters of the executive office. What did our founding fathers expect from an executive? From there we examine how the presidential institution has evolved since the founding. The presidency definitely has a somewhat different place now in our separated system of branches sharing power than it once did. One of the most important features we address is how individual presidents have impacted the scope and direction of the office. We highlight the important role of person style, leadership, persuasion, and charisma as an influence on American government as a whole. Finally, we evaluate competing theories of presidential power to see how useful they are in explaining contemporary presidential politics.

POS 3424 The Legislative Process
3 sh (may not be repeated for credit)
Prerequisite: POS 2041

Politics of accommodation in formulating authoritative policies and general rules; emphasis on U.S. Congress and Florida Legislature in action; relations to other governmental processes.

POS 3453 Political Parties and Interest Groups
3 sh (may not be repeated for credit)
Prerequisite: POS 2041

Political parties, nominations, campaigns, elections, voting behavior, political recruitment, party organization and parties as managers of government. Roles and functions of interest groups.

POS 3608 Constitutional Law: Federalism and Separation of Powers
3 sh (may not be repeated for credit)

Offers an introduction to the fundamental features of the Supreme Court and its Constitutional jurisprudence. In particular, students will examine through a case-study approach the evolution of judicial review, separation of powers, powers of the President and Congress, the evolution of federalism, the national commerce power, and national taxing and spending powers.

POS 3613 Constitutional Controversies

3 sh (may not be repeated for credit)

The American Founders established a Supreme Court to resolve all cases and controversies arising under the federal Constitution and its subsequent laws and treaties. This Court would serve primarily as an appellate tribunal, a court of last resort, reviewing and remanding, reversing or upholding the rulings of lower courts in both the federal and state judiciaries. In this course we will examine those elements of the appellate process on constitutional law, including the Court's review of petitions of certiorari, of merits briefs and the corresponding amici briefs and oral argument.

POS 3624 Constitutional Law: Individual Rights and Privileges

3 sh (may not be repeated for credit)

Offers an introduction to Supreme Court's role in the protection of individual rights, due process, and the equal protection of the laws. In particular, students will examine through a case study approach the evolution of the Court's jurisprudence in cases pertaining to civil rights and individual freedoms protected under the Constitution of the United States.

POS 3625 First Amendment Freedoms

3 sh (may not be repeated for credit)

Problem areas and doctrinal evolution in the judicial protection of First Amendment freedoms. Among specific subjects to be examined will be: free speech and press, free exercise of religion, state aid to religious schools, regulation of obscenity, freedom of association, and regulation of subversive activity.

POS 3734 Political Science Research Methods

3 sh (may not be repeated for credit)

Introduction to research methods in political science and the concepts associated with it. Surveys, polling, research design, sampling, data analysis and library research.

POS 3XX2 Women and Politics

3 sh (may not be repeated for credit)

This course traces the evolution of women's involvement in politics as voters, activists, candidates, and public officials. First, the history of the women's movement will be traced from the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Secondly, this course will examine the contemporary participation of women in American political institutions. It will examine the character and substance of women's participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 4602 The Founders' Constitution

3 sh (may not be repeated for credit)

Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress. This course is offered concurrently with POS 5637; graduate students will have additional work.

POS 4673 Jurisprudence

3 sh (may not be repeated for credit)

A survey of various approaches to theorizing about the Concept of Law. The Natural Law, Legal and Analytical Positivist, Sociological, Realist, and Critical Legal Studies approaches will be studied. In addition, concepts of Justice will be considered.

POS 4905 Directed Study

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

POS 4941 Internships

1-6 sh (may not be repeated for credit)

Special "real-world" encounters programs designed for the individual student. Student must contact their advisor one semester in advance of desired date for internship. Graded on a satisfactory / unsatisfactory basis only. Permission is required.

POS 5355 Contemporary Political Philosophy

3 sh (may not be repeated for credit)

This course explores contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man. Reading Thomas More's Utopia, .S. Lewis' The Abolition of Man, Aldous Huxley's Brave New World, and other works, students will explore the American infatuation with scientific progress and the implications for our self-understanding and our shared sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POS 5637 The Founders' Constitution

3 sh (may not be repeated for credit)

Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress. This course is offered concurrently with POS 4602; graduate students will have additional work.

POS 5939 Special Topics

3 sh (may not be repeated for credit)

The topics for this course will vary based on faculty expertise and learning opportunities. However, this course is designed to guide students through political science scholarship. Students will develop research designs to test theoretically-driven hypotheses using primary or secondary data. The research paper assignment and oral presentation will require students to analyze the results of this design and communicate findings to an appropriate audience.

POS 6006 The Study of Politics

3 sh (may not be repeated for credit)

Introduces the graduate study of political science. It concerns "scope" more than "method," and the range is broad, focusing on what political scientists do--teach, research, advise, and serve. Concerns embrace every conceivable level--local, regional, national, cultural, global, planetary.

POS 6045 Seminar in American Politics

3 sh (may not be repeated for credit)

Course content includes an overview of the institutions and processes of the American political system, the trend and tendencies of political behavior, and the diverse theoretical understandings of American government in the world of political science. Focus is on understanding and critically evaluating interpretations of the structure and function of our governmental system, including: the three branches of government, elections, political socialization and civic engagement, representation, political parties, and interest mobilization.

POS 6116 State and Local Government Principles and Practices
3 sh (may not be repeated for credit)

This course will focus on variation in the way state and local governments are designed to work and the way levels of government interact. We will begin by reviewing the powers granted to the states in the Constitution. We will compare state constitutions and look at their similarities and differences. We will take a detailed look at state governments, particularly state legislatures, governors, and state courts; and local governments and party organizations. We will also compare states and localities in the context of policy on education, health care, crime, and the environment.

POS 6704 Political Science Research Methods
3 sh (may not be repeated for credit)

Methods and logic of research in political science. POS 6704, Political Science Research Methods provides students with the knowledge and skills required to analyze and critique, as well as design, applied research in public policy and public affairs. The course introduces the student to the enterprise of academic research in these areas, provides the student with knowledge and understanding of the various philosophical and methodological approaches to applied research and allows the student to develop and hone analytical skills. Accepted social science research designs will be introduced and an analysis of threats to the validity and reliability of these different designs will be considered. Sampling theory and statistical analysis will be introduced.

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

POS 6940 Internship
2-6 sh (may not be repeated for credit)

The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-sector firms, as an opportunity to gain practical experiences in a field of endeavor related to political science. In some instances, the internship could provide the intern with an opportunity for future employment. Although students are free to find their own internships, the Department will work with students in accomplishing this task. Eligibility requirements for an internship: 3.0 or higher GPA. Students should be enrolled in the Masters of Political Science Program, and have completed all core courses. Graded on satisfactory / unsatisfactory basis only. Permission is required.

POS 6971 Thesis
1-6 sh (may be repeated for up to 12.000 sh of credit)

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

POT-Political Theory Courses

POT 3103 Law and Politics in Literature
3 sh (may not be repeated for credit)

Discussion of law and politics within history's most prominent literary works. Examination of the rule of law within political life in relation to character and plot development. Exploration in the ways in which literature illustrates the challenges posed by human nature to the just administration of law.

POT 4013 Ancient Masters of Political Thought
3 sh (may not be repeated for credit)

A survey of several of the seminal works by political theorists of the ancient and medieval period, including Plato, Aristophanes, Xenophon, Aristotle, Cicero, and St. Augustine. Readings will introduce such themes as the classification of regimes, the debate between the poets and the philosophers, the role of the virtues in perpetuation of civic order, the problem of the many and the one, the tension between the philosopher and the city, the problems of justice, the ideas of Nature and human nature, and the status of the gods and/or religion in political life. Graduate course POT 5016 will have additional work. Course only offered Fall semester.

POT 4204 American Political Thought
3 sh (may not be repeated for credit)

Significant American political theorists, schools of thought and their influence on the political system. Offered concurrently with POT 5207; graduate students will be assigned additional work.

POT 4354 Contemporary Political Philosophy
3 sh (may not be repeated for credit)

This course explores America's faith in scientific progress with an eye toward the theoretical pursuit of happiness. We like science. But has science actually made us happier? Can it deliver the goods? This course explores this phenomenon through philosophy, film, and literature. Reading Thomas More's Utopia, S. Lewis' The Abolition of Man, Aldous Huxley's Brave New World, and other works, students will explore the American infatuation with scientific progress and the implications for our self-understanding and our shared understanding of the good life. Offered concurrently with POT 5355; graduate students will be assigned additional work.

POT 4601 Modern Masters of Political Thought
3 sh (may not be repeated for credit)

Evaluates ideas about the origin, justification, organization, and performance of government by great thinkers from Machiavelli to the present. Offered concurrently with POT 5602; graduate students will be assigned additional work.

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

POT 5016 Ancient Masters of Political Thought
3 sh (may not be repeated for credit)

A survey of several of the seminal works by political theorists of the ancient and medieval period, including Plato, Aristophanes, Xenophon, Aristotle, Cicero, and St. Augustine. Readings will introduce such themes as the classification of regimes, the debate between the poets and the philosophers, the role of the virtues in perpetuation of civic order, the problem of the many and the one, the tension between the philosopher and the city, the problems of justice, the ideas of Nature and human nature, and the status of the gods and / or religion in political life. Offered Fall semester only.

POT 5207 American Political Thought
3 sh (may not be repeated for credit)

Significant American political theorists and schools of thought; their influence on the political system. Offered concurrently with POT 4204; graduate students will be assigned additional work.

POT 5355 Contemporary Political Philosophy
3 sh (may not be repeated for credit)

This course explores contemporary political philosophy through the lens of the theoretical pursuit of happiness in a scientific age. This course is interdisciplinary in nature, drawing from philosophy, film, and literature to understand modern man. Reading Thomas More's Utopia, .S. Lewis' The Abolition of Man, Aldous Huxley's Brave New World, and other works, students will explore the American infatuation with scientific progress and the implications for our self-understanding and our shared sociopolitical understanding of the good life. Offered concurrently with POT 4354; graduate students will be assigned additional work.

POT 5602 Modern Masters of Political Thought
3 sh (may not be repeated for credit)

Evaluates ideas about the origin, justification, organization, and performance of government by great thinkers from Machiavelli to the present. Offered concurrently with POT 4601; graduate students will be assigned additional work.

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

PPE-Personality Courses

PPE 4003 Theories of Personality
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Assumptions, structure, dynamics and determinants of personality. Consideration of various personality theories, pertinent research and its application to everyday life.

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

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

PSB-Psychobiology Courses

PSB 4002 Brain, Behavior, and Experience
3 sh (may not be repeated for credit)

Introduction to the brain and its relationship to behavior and experience. Topics covered: structure and function of the nervous and endocrine systems, sensation / perception, emotion and motivation, thinking and consciousness, learning and memory, malfunctions of the mind.

PSB 4731 Psychobiology of Sexual Behavior
3 sh (may not be repeated for credit)
Prerequisite: ((DEP 2004 AND PSY 2012)) AND (BSC 1005 OR PSB 4002)

Study of biological and sociocultural determinants of sexual development throughout the human life span. Special emphasis is given to sexual orientation, sexual preference, sexual variance, and purported gender differences.

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

PSB 5035 Cognitive Neuroscience
3 sh (may not be repeated for credit)

Biological bases of mind and behavior: History and methods of cognitive neuroscience; evolutionary perspectives on cognition; neural substrates of development and motor control, attention and perception, learning and memory, language and consciousness, cerebral lateralization and specialization.

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

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

PSY-Psychology Courses

PSY 2012 General Psychology
3 sh (may not be repeated for credit)

A survey of methods, theories, and body of knowledge of contemporary psychology, including such topics as learning, motivation, sensation and perception, development, thinking, personality, social behavior, psychological adjustment, and methods of therapy. General Education: Social Science - Behavioral Perspectives.

PSY 2023 Careers in Psychology
1 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Will provide students with an overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor degree in psychology, and career options for students who pursue a graduate degree in psychology. Skills required for library research, writing in the style of the American Psychological Association, and ethical and professional issues will be discussed.

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

PSY 3213 Research Methods in Psychological Science I
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012 AND STA 2023*

The first course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a basic or descriptive understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.

PSY 3215 Research Methods in Psychological Science II
3 sh (may not be repeated for credit)
Prerequisite: PSY 3213

The second course of a two-course sequence designed to expose a student to the research methods and the behavioral statistics that are commonly employed in psychological (behavioral) research. Although the fundamental principles of scientific observation, research design, and research statistics will be discussed, special emphasis will be placed on methodology that provides a more complex or inferential understanding of human behavior. Ethical issues pertaining to both human and non-human research will also be introduced and discussed.

PSY 3680 Positive Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

The scientific study of positive experience including a review of the historical and philosophical foundations of positive psychology and of its contributions to traditional research and practice areas in psychology. Specific emphasis is on the applied positive psychology perspective of the pursuit of the good life, health and well-being, positive psychology at work, clinical psychology and psychotherapy, and positive development across the lifespan.

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

PSY 3948 Service Learning Field Study II
1-3 sh (may be repeated for up to 4.000 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty customize courses to fit a full range of services available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required. Graded on a satisfactory / unsatisfactory basis only.

PSY 3949 Cooperative Education
1-2 sh (may be repeated for up to 4.000 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory / unsatisfactory basis only. Permission of director of Cooperative Education is required.

PSY 4302 Psychology of Assessment
3 sh (may not be repeated for credit)

Fundamentals of testing and measurement of aptitude, achievement and personality. STA 2023 is recommended prior to taking this course. Credit may not be received in both PSY 4302 and PSY 4383.

PSY 4832 Sport and Exercise Psychology
3 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Introduces students interested in psychology, exercise science, physical education, sports medicine, coaching, athletic training or fitness instruction, to principles of psychology as applied to sports and exercise. Topics covered include methods of performance enhancement and mental training, exercise adherence, violence in sports, effects of sports on children, team dynamics, and drug and steroid use among athletes.

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

PSY 5016 Conjunctive Psychology
2 sh (may not be repeated for credit)

A practical and integrated overview of the fundamental dynamics of human behavior and consciousness, drawing from all the world's psychologies, and emphasizing contributions not well known in Western Psychology. Topics include breathwork, nutrition, ayurveda, pranayama, chi kung, chakras, yoga, behaviors of the mind, states and levels of consciousness, self and will, and transpersonal awakening, and their applications in professional settings.

PSY 5016L Conjunctive Psychology Laboratory
1 sh (may not be repeated for credit)
Co-requisite: PSY 5016

Practical experience and skill training that parallel topics of the lecture course. Grading is based on attendance and participation, and contribution to the class.

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

PSY 6217 Research Design in Psychology
3 sh (may not be repeated for credit)
Prerequisite: STA 2023

This course focuses on quantitative research approaches with particular attention given to the selection of procedures for obtaining empirical data that provide meaningful answers to research questions and to the relation between research design and statistical analysis. Topics include researching the literature, developing research questions, designing and evaluating empirical research, and communicating research methods and results in standard technical format (APA style). Ethical issues in the conduct of research will be addressed.

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

PSY 6917 Supervised Research
1-3 sh (may be repeated for up to 12.000 sh of credit)

Credit is earned by serving in an apprenticeship position under a faculty member and assisting with one or more research projects. Although the student may enroll in more than one supervised experience in research or teaching (see PSY 6940), a maximum of 3 sh in supervised experiences will be applied toward the degree requirements. Permission is required.

PSY 6940 Supervised Teaching
1-6 sh (may be repeated for up to 12.000 sh of credit)

Credit is earned by serving in an apprenticeship position under a faculty member and assisting with the teaching of one or more courses. Although the student may enroll in more than one supervised experience in teaching or research (see PSY 6917), a maximum of 3 sh for supervised experiences will be applied toward the degree requirements. Permission is required.

PSY 6948 Internship
1-6 sh (may be repeated for up to 12.000 sh of credit)

Supervised experience in community, agency, school, or business organization where student serves as full-time staff member. Student participates in full range of services available in the setting. An internship portfolio and paper are required. May enroll for more than one term-total of 6sh required for M.A. degree. Minimum of 600 clock hours required. Graded on satisfactory / unsatisfactory basis only. Permission is required.

PSY 6971 Thesis

1-6 sh (may be repeated for up to 36.000 sh of credit)

Includes research projects, theoretical treatises and case studies. May enroll for more than one term-total of 6sh required for M.A. degree. Graded on satisfactory / unsatisfactory basis only. Permission is required.

PSY 8980 Dissertation

1-6 sh (may be repeated for up to 18.000 sh of credit)

Major individual research in an area of significant psychological interest; designed specifically for candidates in the Ed. D Curriculum and Instruction Program-Social Sciences / Psychology Specialization. Reflects intensive social science research produced by the student with guidance from the major professor and doctoral committee members. Admission to candidacy and permission is required. Graded on satisfactory / unsatisfactory basis only.

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

PUP-Public Policy Courses**PUP 4004 Public Policy**

3 sh (may not be repeated for credit)

Study of how public policy is made, especially at the national level. Focus is on current issues and events including the role of the President, Congress, interest groups, bureaucracy and the public. Extensive use of current news sources in the print, television, and internet media.

PUP 4044 Analytic Techniques for Public Policy

3 sh (may not be repeated for credit)

Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 5045; graduate students will be assigned additional work.

PUP 4244 Natural Resource Policy

3 sh (may not be repeated for credit)

The history of natural resource and environmental policy in the United States and the institutions and processes of American natural resource and environmental policy making. Addresses the ongoing transformations in these broader institutions and processes and considers their linkage to the formulation of public policy as it relates distinctly to natural resources and the natural environment.

PUP 4905 Directed Study

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

PUP 5045 Analytic Techniques for Public Policy Analysis

3 sh (may not be repeated for credit)

Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 4044; graduate students will be assigned additional work.

PUP 6905 Directed Study

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

PUR-Public Relations Courses**PUR 3000 Principles of Public Relations**

3 sh (may not be repeated for credit)

Increases understanding of the theory and practice of public relations, functions in organizations, and role in society. Is the foundation course for all other courses in public relations.

PUR 3100 Writing for Public Relations

3 sh (may not be repeated for credit)

Prerequisite: JOU 2100

Develops professional-level writing skills expected of beginning public relations practitioners. Students practice writing for different audiences and media, such as preparing memos, letters, new releases, crisis communication plans, features, media kits, speeches and newsletters.

PUR 3905 Directed Study

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

PUR 4203 Public Relations Law and Ethics

3 sh (may not be repeated for credit)

Prerequisite: PUR 3000

The code of ethics and practice in public relations along with an analysis of ethical issues and trends. Specific legal issues such as privacy, defamation, copyright, and new technology will be covered.

PUR 4400 Crisis Public Relations

3 sh (may not be repeated for credit)

Prerequisite: PUR 3000

Examines crisis public relations planning, preparation, and execution. Focus is on assessment of risk, types of crises, role of and interaction with the media and other publics. Cases are examined to apply what is learned to examples of actual organizational crises. An "ask-the-expert" discussion series presents crisis communication as it relates to corporate, not-for-profit, education, and national-level government public relations.

PUR 4407 Managing Media Relations

3 sh (may not be repeated for credit)

Prerequisite: PUR 3000

The ability to communicate effectively with the media on behalf of an organization is an essential skill for public relations professionals. Techniques and guidelines are provided for the role of organizational media relations manager with emphasis on the spokesperson. An overview of media needs, including communication planning, tips and techniques, and common pitfalls of organizational media relations programs. A considerable portion of the course requires students to participate as spokespersons in various scenario-based, video-tapped exercises.

PUR 4600 Communication Management

3 sh (may not be repeated for credit)

Prerequisite: PUR 3100

Capstone course for public relations and advertising majors. Emphasis on case study analysis and the management of integrated communication programs. Senior status required.

PUR 4800 Communication Research
3 sh (may not be repeated for credit)
Prerequisite: STA 2023

Primary and secondary research methods useful to qualitative and quantitative communication research, applied communication inquiry, and integrated public relations/advertising communication campaigns. Organizational Communication majors are not required to fulfill the prerequisites.

PUR 4801 Public Relations Campaigns
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000 AND PUR 3100

A capstone course designed for graduating seniors, focusing on applying communication and public relations research and theory for a real client. Provides a thorough experience in conducting public relations and integrated communications campaigns and in preparing communication materials. Working in teams, students prepare and conduct the research, planning, implementation and evaluation of an actual campaign for a client. An advanced course requiring full understanding of public relations theory, writing, techniques and research methods. Permission is required. Credit may not be received in both PUR 4801 and PUR 4802.

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

PUR 4930 Current Issues and Trends in Public Relations
3 sh (may not be repeated for credit)
Prerequisite: PUR 3000 AND PUR 3100

Focuses on a range of current issues facing the public relations profession from a theoretical and practical perspective. Exploration of selected topics such as emerging trends in the use of technology, diversity and multiculturalism, increased use of social media, and environmental issues impacting the organization. Senior status within the PR major required.

PUR 6408 Emerging Topics in Public Affairs
1.5 sh (may not be repeated for credit)

Examines the complex communication relationships between and among businesses, nonprofit organizations, government agencies, and the media. Focuses on the strategic communication applications in each of these areas.

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

QMB-Quant Methods in Bus. Courses

QMB 6305 Quantitative Methods for Business
3 sh (may not be repeated for credit)

QMB 6305 is a prerequisite for MAR 6815, ECP 6705 and MAN 6511. Provides students with quantitative skills that are required to make business decisions. These skills involve using statistical, forecasting and estimation techniques. Students are expected to use the subject matter for problem sets and exams.

REA-Reading Courses

REA 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

RED-Reading Education Courses

RED 3310 Literacy Instruction for the Intermediate Learner
3 sh (may not be repeated for credit)

Materials and methods for teaching basic reading and related study skills; emphasis on teaching mastery of decoding skills, conducting guided reading activities, utilizing a wide variety of reading materials in the classroom and relating basic reading skills to content area instruction; includes observation / participation in school settings.

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

RED 4542C Assessment and Differentiated Instruction in Reading
3 sh (may not be repeated for credit)
Prerequisite: LAE 3314 AND RED 3310

Prepares the pre-service teacher in the area of individualized reading and language arts assessment. Individualizing instruction in the areas of language arts (speaking, listening, reading, and written composition) are major components.

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

RED 5515 Classroom Reading Assessments
3 sh (may not be repeated for credit)

An exploration into the theories and appropriate assessment practices by classroom teachers.

RED 5657 Foundations of Reading Theory and Language Cognition
3 sh (may not be repeated for credit)

Provides the student with substantive knowledge of reading theory and language structure and function. Addresses the theoretical foundations for each of the five major components of the reading process. Permission is required.

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

RED 6060 Foundations of Middle and Secondary Literacy
3 sh (may not be repeated for credit)

Emphasizes reading theory and instruction in the middle and secondary grades based on research and classroom practice. Students will examine how particular theories of literacy impact the instructional practices used when teaching reading and writing.

RED 6116 Foundations of Early Literacy
3 sh (may not be repeated for credit)

Emphasizes reading theory and instruction for early and beginning literacy. Students will examine how particular theories of literacy impact instructional practices used when teaching reading and writing in the Pre K - 5 classroom.

RED 6161 Reading Across the Curriculum
3 sh (may not be repeated for credit)

Features techniques and activities for assessing needs and teaching comprehension, vocabulary, and study skills in content areas. Integrates theory with practice and is designed for teachers of content area subjects and reading teachers. Prepares teachers to make instructional decisions based on sound theory, reason, applied knowledge and learner needs.

RED 6240 Differentiating Instruction
3 sh (may not be repeated for credit)

Explores differentiating instruction to meet the needs of all learners and teaches how to prevent or remediate reading difficulties. The focus will be on the interpretation of reading assessment and the implementation of research based instructional practices.

RED 6546 Identifying and Preventing Reading Difficulties
3 sh (may not be repeated for credit)
Prerequisite: EDF 6460

Study and clinical experience to develop competence in determining causes and degrees of reading disabilities, recommending specific corrective or remedial instruction to meet specific needs and preparing case studies.

RED 6658 Foundations and Applications of Differentiated Instruction
3 sh (may not be repeated for credit)

Issues related to differentiated reading instruction. Discusses knowledge and skills concerning differentiated instructional theory, classroom applications, and evaluation techniques used in differentiated instruction. This course meets the Florida Reading Endorsement criteria for competencies 4 and 5.

RED 6747 Research and Trends in Reading
3 sh (may not be repeated for credit)

Review of significant research in reading, introduction to techniques and critical analysis of reading research, review and comparison of trends in development of materials, approaches and reading programs.

RED 6866 Practicum in the Clinical Teaching of Reading
3 sh (may not be repeated for credit)
Prerequisite: RED 6240

Designed to provide a supervised clinical experience in reading assessment and tutoring. Students will conduct a thorough diagnostic screening and provide one-to-one tutoring for a struggling reader.

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

RED 6911 Action Research: Reading
3 sh (may not be repeated for credit)
Prerequisite: RED 6546

An in-depth exploration of the major components related to reading instruction. Includes an action research project. Students will identify a classroom-based reading issue, review the related literature, design and implement an action plan, evaluate, and report the results.

RED 6940 Reading Practicum
3 sh (may not be repeated for credit)

Practical experience in increasing student reading performance with the utilization of appropriate strategies and materials. Emphasizes assessment based instruction for individual and groups of students to prevent, identify, and remediate reading difficulties.

RED 7247 The Organization and Administration of Reading Programs
3 sh (may not be repeated for credit)

Explores the role of the reading supervisor in organizing and implementing reading programs from the pre-elementary through the college level.

REE-Real Estate Courses

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

REL-Religion Courses

REL 1300 World Religions
3 sh (may not be repeated for credit)

Broad understanding of the major religious traditions. May include Judaism, Christianity, Hinduism, Buddhism, Islam and others. Comparative study of similarities and differences among these traditions. General Education: Humanities - Contemporary Values and Expressions. Gordon Rule: Writing.

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

REL 3142 New Perspectives on the Religious Self
3 sh (may not be repeated for credit)

Focus on selected understandings of the nature of the self as a religious being. Various models of the self will be examined.

REL 3145 Women and Religion
3 sh (may not be repeated for credit)

An examination of the complex relationships that exist between women and religion. The roles and status of women in Indigenous Traditions, Hinduism, Buddhism, Judaism, Christianity, and Islam with special attention paid to fundamentalist forms of religion. The methodology is both comparative and cross-cultural. An important feminist value is to privilege the "experiences of others." To that end, we will hear the voices of women themselves. Beginning with the feminist challenge to male, disembodied, and immutable images of the divine, we will discover how religion both limits and empowers women. Gordon Rule: Writing. Meets Multicultural Requirement.

REL 3158 Religious Experience
3 sh (may not be repeated for credit)

Religious experiences and phenomena from the standpoint of particular approaches in psychology and religion. Such topics as human suffering, wholeness, and mystical awareness will be discussed using the thought of Becker, Keen, Freud and others. Gordon Rule: Writing.

REL 3213 Studies in Hebrew Scriptures/Old Testament
3 sh (may not be repeated for credit)

Analysis of literature of ancient Israel, interrelation of faith and history, evolution of ethical monotheism from primitive beginnings to oracles of prophets. Gordon Rule: Writing.

REL 3241 Studies in the New Testament
3 sh (may not be repeated for credit)

Exegetical study of literature of the early Christian community with emphasis on life and teaching of Jesus and letters of Paul from variety of theological perspectives. Gordon Rule: Writing.

REL 3310 Philosophies of the East
3 sh (may not be repeated for credit)

Indian philosophy including concept of Brahman in Vedanta and Yoga meditation. Buddhism in India, China and Japan. Confucian humanism and Taoist mysticism in China. Meets Multicultural Requirement.

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

REL 3948 Service Learning Field Study II

1-3 sh (may be repeated for up to 4.000 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

REL 4420 Contemporary Theology

3 sh (may not be repeated for credit)

Types of theology: fundamentalism, liberalism and neo-orthodoxy. Current trends: religious atheism (Nietzsche, Altizer), secular theology (Bonhoeffer, Cox), process theology (Whitehead, Chardin), existential theology (Tillich, Bultmann), personalism (Bertocci, DeWolf), liberation theology (Gutierrez, Boff).

REL 4441 Current Religious Issues

3 sh (may not be repeated for credit)

Significant personal and social concerns viewed from religious perspectives: race relations, medical practices, sexuality, war and terrorism, ecological crisis and non-Western religions.

REL 4592 Development of Christian Thought

3 sh (may not be repeated for credit)

Beginning with the early Christian communities in Rome and Jerusalem, the course explores the development of the Christian faith and thought with an emphasis on the relationship between philosophy and theology. The impact of cultural and social-political changes over the centuries and how they affected life in the Christian communities are examined. Meets Multicultural Requirement.

REL 4905 Directed Study

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

RTV-Radio/Television Courses**RTV 3210 Radio Production**

3 sh (may not be repeated for credit)

Introduction to the tools and techniques of audio production with emphasis on the practical application of theoretical concepts. Credit may not be received in RTV 3210 and either RTV 3210C or RTV 3240C.

RTV 3301 Broadcast Journalism

3 sh (may not be repeated for credit)

Principles and techniques of radio and television news operation. Credit may not be received in both RTV 3301 and RTV 3304.

RTV 3400 History of Television

3 sh (may not be repeated for credit)

Examines the entire television industry from its inception to present day and its social, economic and financial ramifications on societies, especially their inter-relations. The course will also review, compare and contrast both the domestic and international television industries with regard to technical applications and advances, programming, production, and developmental theory and where the industry may be headed.

RTV 3511 Electronic Field Production

3 sh (may not be repeated for credit)

Prerequisite: RTV 3200 OR RTV 3533

Principles and techniques of basic electronic field production for video, film, CD-ROM, and the Internet. Credit may not be received in both RTV 3511, 3320 and RTV 3320C.

RTV 3533 Television Production

3 sh (may not be repeated for credit)

Studio operations and equipment; theoretical and technical aspects of television production. Credit may not be received in both RTV 3200, 3533 and RTV 3200C.

RTV 3700 Broadcast Management and Regulation

3 sh (may not be repeated for credit)

Management issues in the broadcast industry and governmental regulations that apply to that industry.

RTV 3905 Directed Study

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

RTV 3942 Practicum: Television News

3 sh (may not be repeated for credit)

Prerequisite: ((RTV 3200 AND RTV 3320)) AND (JOU 2100 OR FIL 4102)

Experience in production of a weekly television news program telecast to the local community.

RTV 4221 Advanced Television Production

3 sh (may not be repeated for credit)

Prerequisite: RTV 3200 AND RTV 3320

Applies skills from basic television production and electronic field production in non-news production formats for broadcast on WUWF-TV Channel 4. Production formats include, but are not limited to: interview programs, musical productions, remote event coverage, dramatic anthology, all in either live or taped settings. Will be structured as an actual job. Students will participate in every production setting over the course of a semester in every capacity.

RTV 4332 Documentary Television Practicum

3 sh (may not be repeated for credit)

Prerequisite: (RTV 3511 OR RTV 3320) AND (RTV 3200 OR RTV 3533)

Introduces, defines, and exposes the student through hands-on approach to documentary style television productions by exploring the six foundational styles: Poetic, Expository, Observational, Participatory, Reflexive, and Performative.

RTV 4905 Directed Study

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

RTV 6905 Directed Study

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

RUS-Russian Language Courses**Religion Graduate Courses****RLG 6905 Directed Study**

1-12 sh (may not be repeated for credit)

SCE-Science Education Courses**SCE 3905 Directed Study**

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

SCE 4310 Teaching Science in the Elementary School
3 sh (may not be repeated for credit)

Processes of science requisite to teaching elementary school science; emphasis upon structure and objectives of school science programs, methods of instruction assessment, and experimental programs. Material and supply fee will be assessed.

SCE 4320 Teaching Science in the Middle and Secondary Schools
3 sh (may not be repeated for credit)

Theory and methods of teaching science in the middle and secondary schools; explores current research on approaches in teaching and learning science; examines the practice of science, disciplinary core ideas in specific science disciplines of choice (i.e. Biology, Earth/Space, Chemistry, Physics), and crosscutting themes in science; compares various models of teaching (i.e. direct instruction, inquiry, project-based learning); Includes practices to effectively move student thinking toward meaningful understanding focusing on best practices in STEM disciplines.

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

SCE 5445 Physical Science in Motion: Classroom Applications
3 sh (may not be repeated for credit)

Participants use simple software simulations. Physical science activities focus on relationships between gravity, friction, aerodynamic principles and energy. Three free simple-to-use software programs from NASA Glenn are featured and: 1) control the shape, size, and inclination of the airfoil and atmospheric conditions in which you are "flying"; 2) teach aerodynamics by controlling the conditions of a big league baseball pitch (speed, spin, etc.); and 3) model the design and testing of jet engines, flight conditions, and engine size. Applications to "force and motion" are another focus. The software and material will teach concepts simply, visually and in an exciting manner.

SCE 5837 Structure of the Earth
3 sh (may not be repeated for credit)

Examines the physical composition of our planet and the forces both internal and external that continuously shape it. Is cross-disciplinary when appropriate and especially designed for secondary school teachers currently teaching or preparing to teach courses in middle and high school Earth sciences. Combines technical explanations of geologic processes and phenomena with an explanation of the physical composition of matter, minerals, and rock types. The original content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics. Credit may not be received in both SCE 5837 and SCE 5835.

SCE 6017 Science Instruction in the Elementary School
3 sh (may not be repeated for credit)

Theory and practice of elementary school science education, including history, philosophy, research, curricula, and instructional strategies. Demonstration teaching, individualized instruction and action research. Credit may not be received for both SCE 6017 and SCE 6117.

SCE 6265 Science Instruction in the Middle and Secondary School
3 sh (may not be repeated for credit)

Prerequisite: EDM 6944* OR ESE 6944*

Assists middle and secondary level teachers to develop theoretical understanding and skills necessary to teach in a manner consistent with current reform efforts in science education. Focuses on three components of understanding science teaching and learning: 1) the nature of science, its history and philosophy, 2) how students learn science, and 3) the role of the teacher in creating a safe learning environment. Admission to Teacher Education and permission is required. Credit may not be received in both SCE 6265 and SCE 6625. Material and Supply Fee will be assessed.

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

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

SDS-Student Develop Services Courses

SDS 6345 Educational and Vocational Guidance
3 sh (may not be repeated for credit)

Socio-psychological forces influencing career choice; identification, selection and use of educational and career guidance resources; use of decision-making concepts and skills in choosing educational and occupational alternatives.

SDS 6642 A Survey of Literature in College Student Personnel
3 sh (may not be repeated for credit)

A seminar style survey of seminal books and articles in the field of college student personnel services (student affairs leadership and administration).

SDS 6647 Foundations of Counseling Principles for Student Affairs Administration
3 sh (may not be repeated for credit)

Focuses on basic counseling concepts and applications essential for effective student affairs practice and how these skills are best used in a student service setting. Serves as a professional preparation course in which students will have the opportunity to learn the basics of counseling skills including developing basic listening, conflict resolution, interviewing, and referral skills.

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

SLS-Student Life Skills Learn Courses

SLS 1109 Academic Foundations Seminar
3 sh (may not be repeated for credit)

An introduction to students' first two years at the University that is designed to prepare them for a successful college experience. Provides the necessary knowledge and experiences for them to be successful personally and academically during their college years and beyond.

SLS 2531 Academic Retention Seminar
2 sh (may not be repeated for credit)

Assists students with their re-entry into the University following academic suspension by self-assessment of previous academic performance and development of a personalized academic plan. Permission is required.

SLS 2905 Directed Study

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

SLS 2942 Disney Field Experience

1 sh (may not be repeated for credit)

Paid work experience at Walt Disney World coupled with a College Program Course of the students' choosing. Engages students in a rigorous and challenging professional academic program to advance career research with an emphasis on exploration, analysis, and application. Graded on satisfactory / unsatisfactory basis only. Permission is required.

SLS 2948 Service Learning Field Study I

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

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SLS 3273 Applied Leadership Development

3 sh (may not be repeated for credit)

Supplements and enhances students' leadership and personal development skills. Through readings, discussions, presentations and projects, students apply leadership theories and practices to their organization and everyday lives. Permission is required. Offered Fall semester only.

SLS 3948 Service Learning Field Study II

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

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SOP-Social Psychology Courses**SOP 3004 Social Psychology**

3 sh (may not be repeated for credit)

Survey of theory, method, and research results in areas of social psychology, such as attitude formation and change, social perception/cognition, impression formation, social influence, interpersonal attraction and relationships, aggression and pro-social behavior, and group dynamics. Application in areas such as work or health behavior, legal settings, or environmental psychology may also be included.

SOP 3730 Psychology, Culture, and Society

3 sh (may not be repeated for credit)

Prerequisite: PSY 2012

The study of social processes within a cultural context. Topics include non-verbal behavior, the construction of social reality, communication, personal relationships, social influence, discrimination and prejudice, group dynamics, organizational culture and behavior, implications for health and wellness.

SOP 3905 Directed Study

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

SOP 4702 Psychology and Gender

3 sh (may not be repeated for credit)

Prerequisite: PSY 2012

Addresses the construction of gender as a psychological construct. The psychological construct of gender is considered from biological, social, and individual perspectives. Lecture, discussion, readings, and participative learning methods are used.

SOP 5609 Current Issues in Industrial-Organizational Psychology

1 sh (may be repeated for up to 2.000 sh of credit)

Topics of current interest in industrial-organizational psychology. May include panel discussions, site visits to local organizations, guest speakers, individual student research presentations, or discussions led by the professor. Industrial-organizational psychology students must enroll for two consecutive terms.

SOP 5905 Directed Study

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

SOP 6069 Advanced Social Psychology

3 sh (may not be repeated for credit)

Students must take SOP 3004 before enrolling in this course. Contribution of social psychology to understanding of human behavior: emphasis is on theory and research in major areas such as attitude, perception and attribution, attraction, altruism, group behavior, etc.

SOP 6668 Organizational Change and Development

3 sh (may not be repeated for credit)

Prerequisite: SOP 6669

Organizational development: change agency, role of self in O.D., change theory, feedback methodology, relationship building, team building and quality, Lab learning methodology.

SOP 6669 Advanced Organizational Psychology

3 sh (may not be repeated for credit)

Seminar reviewing much of the recent research literature in areas of organizational psychology, including leadership, motivation, job performance, job satisfaction, role behavior in work settings and communications.

SOP 6776 Human Sexuality and Sex Therapy

3 sh (may not be repeated for credit)

Major emphasis is given to research regarding a broad range of sexual dysfunctions and analyses of specific therapeutic interventions. Various styles of sexual expression are also examined in terms of their social and psychological implications. Assumes prior knowledge of counseling theory and practice.

SOP 6905 Directed Study

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

SOW-Social Work Courses**SOW 2192 Understanding Relationships in the 21st Century**

3 sh (may not be repeated for credit)

Human relationships with a focus on the interrelatedness and effects of underlying theoretical principles as they relate to individual, family and group interactions. General Education: Social Science - Behavioral Perspectives.

SOW 3103 Human Behavior in Social Environment

3 sh (may not be repeated for credit)

Prerequisite: BSC 1005 OR BSC 1085 OR BSC 1086

Social personality and cognitive development, normal and abnormal, normative and non-normative crisis and gender issues with an emphasis on cultural diversity. Importance of social work intervention and treatment with individual, family, and community.

SOW 3113 Human Behavior in Organizations and Communities

3 sh (may not be repeated for credit)

Introduces the future practitioner to the concept of change agent within organizations, institutions, and communities. Prepares the student with academic concepts on community organization as a prelude to the practice course. Emphasis is placed on the student's ethical responsibilities to the client, organizational structure of human service agencies and the elements common to them. Students will understand structural and organizational differences between profit and nonprofit agencies. Students will experience organizational obstacles to planned change. The dynamics of gender, class, race, ethnicity, and sexual orientation are examined in relationship to how they are played out within the organizational context.

SOW 3203 Introduction to the Field of Social Work

3 sh (may not be repeated for credit)

Survey of the social work profession from its roots to contemporary practice with a descriptive focus on its values, knowledge bases, skills, and fields of practice. Emphasis is on generalist social work and social policy structures which sustain society. Introduces the relationship of social problems to social policy and to social service delivery systems.

SOW 3313 Work With Individuals and Families

3 sh (may not be repeated for credit)

One of four practice courses designed to prepare the student for generalist social work. Emphasis is on the values, knowledge, and skills necessary for effective assessment and intervention on the micro level, and is reflected in several areas, including the worker / client relationship, assessment, strategies and implementation techniques, the social worker's use of self, the phases of the helping process, and evaluation. Using the systems approach, emphasis is placed on social, cultural familial, and environmental influences on the functioning of individuals and families. Permission is required.

SOW 3314 Case Management

3 sh (may not be repeated for credit)

Designed to help students develop a general overview of case management and how it is defined and practiced in a variety of settings, such as juvenile justice programs, mental health programs, and nonprofit community agencies.

SOW 3322 Work With Groups

3 sh (may not be repeated for credit)

One of a series of four courses designed to prepare a student for generalist social work practice. The student will acquire the knowledge base, values and skills necessary for working with groups at the beginning professional level. The focus will be on developing the knowledge base, values and practice skills needed to use the problem solving approach to work with diverse populations within various types of groups. Stages of groups and activities that can enhance the group process will be explored. Permission is required.

SOW 3350 Interviewing and Recording

3 sh (may not be repeated for credit)

Practice in interviewing techniques and in precise, descriptive, and accurate writing techniques for practitioners in social work, psychology, and other helping professions. Gordon Rule: Writing.

SOW 3503 Introduction to Generalist Practice

3 sh (may not be repeated for credit)

Prerequisite: SOW 3203 AND SOW 3350

One of four practice courses designed to prepare the student for generalist social work. Through agency experience, classroom instruction, and introspective discussion, students develop self-awareness, beginning skills and knowledge, and a professional attitude. Students are introduced to a social agency setting, the varying needs and vulnerabilities of clients served, the problem solving process, and the development of basic knowledge and skills necessary in helping relationships with systems of various sizes. Restricted to social work majors. Permission is required.

SOW 3650 Introduction to Child Welfare

3 sh (may not be repeated for credit)

Prepares social workers and others to enter the field of child welfare with a better understanding of the history of this movement and the types of services and programs designed to assist children and families. Also introduces and provides information to any interested person regarding the social problems of children and the availability of services to children in need.

SOW 3783 Human Trafficking

3 sh (may not be repeated for credit)

The purpose of this course is to educate social work students on human trafficking and develop a framework for professional intervention. This course is designed to examine the human trafficking phenomenon of modern day slavery of men, women, and children. Course content will include the examination of domestic and international policy, the differences in labor and sexual trafficking, and the scope and prevalence of human trafficking as an international concern. The socio-political, cultural, and economic issues that contribute to the increased phenomenon of trafficking with women and children will be explored as well as the traumatic effects on victims, families, and the community. The social workers role in providing intervention and advocacy services will be explored.

SOW 3905 Directed Study

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

SOW 4111 Adolescents At Risk

3 sh (may not be repeated for credit)

Explores environmental and societal factors that contribute to risky behaviors of adolescents such as substance use, delinquency, sexual activity, and violent behavior, and others. Characteristics of high risk and low risk youth are discussed including the relationship of these characteristics to adolescent development. Prevention, intervention, and treatment approaches are discussed.

SOW 4141 Social Aspects of Family Violence

3 sh (may not be repeated for credit)

Introduces basic concepts, principles, and methods for understanding and identifying family violence. Topics include an historical overview; the impact of domestic violence on the community and on the woman, children, and man involved; the identification of emotional, physical, and sexual aspects of abuse; safety planning and levels of lethality; an introduction to effective intervention.

SOW 4232 Analysis of Social Service Policy
3 sh (may not be repeated for credit)

Prerequisite: SOW 4403

Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills. Offered concurrently with SOW 5218; graduate students will be assigned additional work.

SOW 4233 Human Diversity and Social Justice
3 sh (may not be repeated for credit)

Prerequisite: SOW 4232 AND SOW 4403

Examines the impact of social, economic, and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political, and economic justice. Offered concurrently with SOW 5629; graduate students will be assigned additional work Meets Multicultural Requirement.

SOW 4242 Families and Family Treatment
3 sh (may not be repeated for credit)

Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 5243; graduate students will be assigned additional work.

SOW 4403 Social Work Research Foundations
3 sh (may not be repeated for credit)

Prerequisite: SOW 3350

An introduction to research methodology in the evaluation of social work practice and program evaluation.

SOW 4510 Social Work Field Instruction
1-9 sh (may not be repeated for credit)

Prerequisite: SOW 3103 AND SOW 3113 AND SOW 3203 AND SOW 3313 AND SOW 3322 AND SOW 3350 AND SOW 3503 AND SOW 4232 AND SOW 4403

Co-requisite: SOW 4522

Field education experience in social service agency with a qualified professional supervisor. A minimum of 400 hours is required. Restricted to social work majors. Graded on a satisfactory/unsatisfactory basis only. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required. Material and Supply Fee will be assessed.

SOW 4522 Senior Seminar
3 sh (may not be repeated for credit)

Prerequisite: SOW 3103 AND SOW 3113 AND SOW 3203 AND SOW 3313 AND SOW 3322 AND SOW 3350 AND SOW 3503 AND SOW 4232 AND SOW 4403

Co-requisite: SOW 4510

Designed to integrate previously learned beginning generalist practice concepts, values, knowledge, attitudes and skills with practice. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required.

SOW 4674 Social Issues and Intervention Strategies in Social Work Practice with Older Adults

3 sh (may not be repeated for credit)

Embraces an interdisciplinary approach to intervention strategies to eliminate or ameliorate problems/crises faced by aging clients. Demographics are addressed.

SOW 4679 Response to Disasters in the Community
3 sh (may not be repeated for credit)

The course is designed to provide the student with an understanding of disasters; man made and natural and their affect of the individual and community. Focus will be on preparation and response to disaster affected populations. Previous disaster responses will be critiqued in efforts to learn how to better prepare for future disasters. Basic human needs will be examined and how best a community can help to logistically provide for those needs. In addition, populations with special needs will be examined throughout all phases of the life cycle. Mental Health response will be addressed including cognitive/emotional stages people experience following a disaster.

SOW 4700 Substance Abuse Prevention and Treatment: Special Issues

3 sh (may not be repeated for credit)

Historical, legal, ethical, and social issues relating to drug abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 5710; graduate students will be assigned additional work.

SOW 4740 Dimensions of Death and Dying: Special Issues
3 sh (may not be repeated for credit)

Assists the student, both personally and as a professional helping others, to approach death and dying with enhanced knowledge, sensitivity, and less dread and denial. Examines historical, social, legal, cultural, and interpersonal aspects of death and bereavement within the context of professional practice. Offered concurrently with SOW 5745; graduate students will be assigned additional work. Credit cannot be received for both SOW 4682 and SOW 4740.

SOW 4905 Directed Study

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

SOW 5105 Human Behavior in the Social Environment I
3 sh (may not be repeated for credit)

Provides an understanding of social functioning throughout all phases of the life cycle by examining the interaction between the biological deterrents of growth and development and various systems of our social environment. Focus is on the interrelatedness and effects of individuals, families and groups and of genetic, emotional and societal systems and values that foster or impede social functioning.

SOW 5106 Human Behavior in the Social Environment II
3 sh (may not be repeated for credit)

Familiarizes students with the academic concepts of macro assessment and community organization through planned change processes. Emphasis is placed on the social worker's role as a change agent, strategies and models for community organizing, and ethical responsibility to the client, organization, community, and the profession.

SOW 5128 Cognitive Behavioral Therapy

3 sh (may not be repeated for credit)

Prerequisite: SOW 5305

This course focuses on cognitive behavioral therapy, clinical decision making, advanced clinical interventions, while building on a generalist approach to social work practice. The course utilizes the clinical-community concentration prerequisites and an understanding of normal development and psychopathology as a foundation for advanced practice. It examines ways in which cognitive behavioral theory and model of intervention with individuals, families and groups can be tailored to client needs. The course addresses work with clients across the life cycle who are experiencing a variety of problems and difficulties. Methods of enhancing adaptive functioning and resiliency through cognitive behavioral therapy are emphasized. Permission is required.

SOW 5149 Social Work Practice In The Military

3 sh (may not be repeated for credit)

A comprehensive and in depth examination of the practice of military social work. The course provides a historical context and a thorough review of the specific practice of social work in the U.S. military.

SOW 5218 Analysis of Social Service Policy

3 sh (may not be repeated for credit)

Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills. Offered concurrently with SOW 4232; graduate students will be assigned additional work.

SOW 5241 Advanced Child Welfare Practice

3 sh (may not be repeated for credit)

Elective course focusing on understanding child abuse and neglect that is designed to provide advanced direct practice (clinical) knowledge and skills necessary for working in public or private child welfare settings with multiple risk families, and in collaboration with multiple providers and systems. The course will address the historical perspective on child maltreatment, and the role of the family in today's society. Department Permission is required.

SOW 5243 Families and Family Treatment

3 sh (may not be repeated for credit)

Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 4242; graduate students will be assigned additional work.

SOW 5305 Generalist Practice I

3 sh (may not be repeated for credit)

First course in a two course sequence which covers generalist social work practice. Basic generalist practice skills with individuals, families, and groups. Basic communications and interviewing skills are introduced and practiced. Tasks and skills required in the beginning practice: preparation, engagement, first interviewing skills, and case documentation. The process of collecting relevant social, psychological, cultural, economic, and biological data from individuals, families, and groups and organizing and analyzing data for problem formulation. Historical and contemporary perspectives of the case management process are highlighted focusing on advocacy roles. Practice skills and the application of those skills through the use of interactive exercises and role plays.

SOW 5309 Prevention and Intervention Strategies for Children Ages 0-5 and Their Families

3 sh (may not be repeated for credit)

Generalist practice methods for children 0-5 and their families. An overview of developmental, psychological, sociological and legal issues. Strategies for prevention and intervention. Offered concurrently with SOW 4303; graduate students will be assigned additional work.

SOW 5324 Generalist Practice II

3 sh (may not be repeated for credit)

Introduces the knowledge base, values and skills necessary for working with groups at the beginning professional level. Develops the knowledge base, values, principles, and practice skills needed to work with diverse populations within various types of groups. Stages of groups and activities will be explored that can enhance the group process and its purpose towards achieving its objectives.

SOW 5356 Play Therapy: Theory and Techniques

3 sh (may not be repeated for credit)

Students will learn the theoretical underpinnings of play therapy and the techniques by which the theory is practiced. Permission is required.

SOW 5386 Occupational Social Work

3 sh (may not be repeated for credit)

An overview of Occupational Social Work for graduate-level students including historical trends and emerging issues. The course will address the scope of Occupational Social Work practice, including strategies for macro- and micro-levels of intervention. The needs of specific populations and will be examined. The core technologies of the Employee Assistance Program (EAP) practitioner and resources for professional development will be identified. Permission is required.

SOW 5404 Social Work Research Foundations

3 sh (may not be repeated for credit)

An introduction to research methodology in the evaluation of social work practice and program evaluation. Offered concurrently with SOW 4403; graduate students will be assigned additional work.

SOW 5532 Foundation Year Field Instruction and Integrative Seminar I

3 sh (may not be repeated for credit)

Integrates foundation curriculum social work course content and 400 hours field education experience in order for students to function as generalist social work practitioners. Issues related to social work values and ethics, diversity, social and economic justice, populations at risk, human behavior and the social environment, social welfare policy and services, practice and research are examined within the context of the student's field education experiences. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

SOW 5614 Domestic Violence and the Social Work Practice
3 sh (may not be repeated for credit)

An examination of the history and dynamics of intimate partner violence including a discussion of theories, various forms of domestic violence, its impact, consequences and factors that exacerbate violence. Prevention and intervention strategies will be discussed along with policies that influence this social problem. Throughout the course, the focus will be to learn effective strategies that empower each family member to recover and/or change positively. The consideration of social work values and ethics, as well as the concerns of disadvantaged groups will be stressed.

SOW 5629 Human Diversity and Social Justice
3 sh (may not be repeated for credit)

Examines the impact of social, economic and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political and economic justice. Offered concurrently with SOW 4233; graduate students will be assigned additional work.

SOW 5710 Substance Abuse Prevention and Treatment: Special Issues
3 sh (may not be repeated for credit)

Historical, legal, ethical, and social issues relating to substance abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 4700; graduate students will be assigned additional work.

SOW 5757 The History, Philosophy, and Theory of Social Work Practice
3 sh (may not be repeated for credit)

Introduces the student to the Social Work Profession and the history, philosophy, theory, and development of social work practice. Perspectives on social welfare, social work as a profession, and core concepts will be introduced. Content will cover aspects of social work practice including poverty, child welfare, criminal justice, health and mental health, homelessness, and aging.

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

SOW 6116 Evaluation and Treatment of Trauma-Related Conditions
3 sh (may not be repeated for credit)

In-depth examination into the impacts of trauma on individuals, couples, families, and communities. Specific attention is given to learning how to assess and treat individuals who have been exposed to recent or previous traumatic events. Using multiple case scenarios, participants will be introduced to empirically-supported interventions for treated Acute Stress Disorder and Post-Traumatic Stress Disorder. They will also learn about the impacts of these conditions on partner relationships and other family members. The course also outlines know efforts to foster resiliency among these individuals and families. Department Permission is required.

SOW 6125 Psychopathology for Social Work
3 sh (may not be repeated for credit)

Patterns of human behavior and psychosocial functioning commonly conceptualized as psychopathology. Addresses such concepts as function, mental health, mental illness, normality and abnormality. Prevalent categories of psychiatric disorders are considered as to their labeling process, differentiating characteristics, explanatory theories and relevance for social work practice.

SOW 6297 Ethical Decision Making in Social Work
3 sh (may not be repeated for credit)

Students will explore further the history of Social Work ethics and values and will address relevant ethical theoretical frameworks. Emphasis will be placed on students embracing professional standards of practice, legal requirements, and self-awareness regarding professional ethical behavior. Students will examine in-depth the ethical decision-making process. Department Permission is required.

SOW 6326 Social Work Intervention with Groups
3 sh (may not be repeated for credit)

The advanced social work practitioner is required to demonstrate group skills in a wide variety of practice situations. The focus of this course is on the design and implementation of group treatment services for at risk populations of varying ages, social situations and composition. Students will be afforded the opportunity to develop a clear sense of the scope, uses and skills of group work in the social work profession. Department Permission is required.

SOW 6345 Social Work Leadership, Management and Supervision
3 sh (may not be repeated for credit)

Introduction to the values, principles and functions that provide the foundation for effective leadership and management practice in the field of social work. Students will receive an overview of styles and skills used in social work leadership, management and supervision which are appropriate to both clinical and community social work practice settings. This course will provide students with values, principles and strategies for leading teams, problem-solving, and supporting multicultural and diverse staffing in social work agencies. Department Permission is required.

SOW 6366 Advanced Play Therapy Methods
3 sh (may not be repeated for credit)
Prerequisite: SOW 5356

This course will focus on the goals of group and filial play therapy. In group play therapy, topics include the role of the play therapist, selection of group members, planning/structuring of sessions, and developmentally responsive play and expressive arts activities. In filial play therapy, also known as Child Parent Relationship Therapy (CPRT), the focus is on intervention skills designed to improve parent-child relationships using a group parent-training format. Students will be expected to use play therapy kit created during SOW 5356. Department Permission is required.

SOW 6432 Evaluation of Social Work Practice
3 sh (may not be repeated for credit)

Practice evaluation using simple subject design and program evaluation that is grounded in social science and social work research literature. Particular attention will be paid to the ethical issues of conducting research, especially with oppressed or vulnerable populations.

SOW 6475 Applied Research
3 sh (may not be repeated for credit)

Students plan, design, and conduct a research project in conjunction with the student's field placement. Special emphasis is on the conduct and use of empirical research in applied settings.

SOW 6535 Advanced Year Field Instruction and Integrative Seminar I
3 sh (may not be repeated for credit)
Prerequisite: SOW 5532

Integrates theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Material and Supply Fee will be assessed.

SOW 6536 Advanced Year Field Instruction and Integrative Seminar II
3 sh (may not be repeated for credit)
Prerequisite: SOW 6535

This is the second of two advanced master's level field internship and integrative seminars. Assists social work graduate students in integrating theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Material and Supply Fee will be assessed.

SOW 6548 Advanced Seminar in Clinical Social Work Practice
3 sh (may not be repeated for credit)

Capstone course in clinical-community social work practice. Student analysis of practice with individuals, families, and group through a written and oral presentation of case material. Focus is on refinement of intervention skills relying on field practicum experience for integration of learning. Integration of knowledge from the Clinical Practice courses and Field Instruction. Students will prepare and present a case from their internship for oral presentation and demonstrate ability to organize and select appropriate treatment strategies for a specific client, family, or group. A broad range of field placements will provide diverse clients and a range of clinical issues. Students are expected to show evidence of critical thinking and self-awareness in written and oral presentations.

SOW 6609 Chronic Illness and Social Work
3 sh (may not be repeated for credit)

Exploration of chronic illness, including death, dying, life, and living, whether with respect to their own feelings, or that of clients with whom they might work, utilizing the systems perspective. We will focus on illness, care giving, the dying process, and grief and bereavement across the life span. In addition, we will consider the impact of gender, culture, religion, etc., on the topics. Furthermore, we will explore characteristics, special emphasis on resiliency, that allow us to survive, and, in fact, often thrive in the face of life's traumas and tragic events, especially when provided with support and education. We will fulfill the goals and objectives of the course through the use of literature, videos, class discussion, presentations, guest speakers, assignments, and experiential activities. Department Permission is required.

SOW 6618 Clinical Practice I
3 sh (may not be repeated for credit)

Builds on the knowledge base of generalist social work practice. Emphasizes advanced assessment of clients across the life span, trauma assessment, and beginning evaluation of practice skills. Treatment planning with individuals, families, and groups is stressed. Building on the generalist practice base for analyzing and interpreting bio-psycho-socio-spiritual content, interpreting and implementing professional values and ethics, and utilizing the professional helping relationship. Introduces an advanced clinical practice base of clinical-community social work.

SOW 6619 Clinical Practice II
3 sh (may not be repeated for credit)

Clinical decision-making and advanced clinical interventions by building on a generalist approach to social work practice. Utilizes the clinical community concentration prerequisites to examine normal development and psychopathology as a foundation for advanced practice. Examines specific theories and models of intervention with individuals, families, and groups that can be tailored to client needs. Addresses work with clients across the life cycle with diverse issues. The impact of poverty, racism, sexism, and manifestations of institutionalized oppression upon clients and workers are addressed at an advanced level. Methods of enhancing adaptive functioning and resiliency are emphasized. Students will be expected to demonstrate clinical expertise, an understanding of social work ethics and values, incorporate client preferences, utilize critical thinking skills, and apply empirical evidence to practice decisions.

SOW 6626 Spiritually Sensitive Social Work Practice
3 sh (may not be repeated for credit)

Framework to assess and discuss spiritual and religious concepts in social work practice. Students will develop a spiritually sensitive knowledge base to respond competently and ethically with clients of all religious traditions and spiritual practices. Students will learn to incorporate spiritually sensitive social work practices with individuals, families, groups and communities. Students will integrate and demonstrate competent assessment, including interviewing skills, necessary in spiritual dialogue in social work practice. Department Permission is required.

SOW 6656 Child and Adolescent Treatment
3 sh (may not be repeated for credit)

Familiarization with a range of child and adolescent psychological disorders typically seen in social work clinical practice. Emphasis will be placed on development, diagnostic issues, theoretical formulations, causes, treatment, and research findings related to each of these conditions. The course will utilize lecture, guest speakers, videos and classroom activities. Permission is required.

SOW 6678 Grief, Loss, and Life
3 sh (may not be repeated for credit)

Introduction to the current and historical perspectives of death, dying and bereavement. This course will address experiences and responses to a variety of deaths including perinatal death, death of a child, death following a terminal illness, suicide, homicide, and military related death. The Hospice movement's history and goals will be part of the curriculum, as well as the experience of dying well. Special attention will be given to how other cultures and religions view death and ethical dilemmas related to death. Loss is a central and inescapable dimension of the human experience. How an individual learns to deal with loss from an early age shapes the adjustment that s/he is able to make to adverse life events throughout the life cycle and indeed determines to a large extent how satisfying and creative a life that person is able to live. This course will help the social work clinician explore and understand major theories of grief and loss, as well as treat clients of all ages who are dealing with a variety of losses. It will also assist the generalist practitioner in determining those situations in which an unresolved past experience of loss is contributing to poor adjustment in the present, as well as providing guidelines for helping the client grieve in a way that allows him or her to re-establish a sense of meaning, adapt to what is gone, and move on to live with increased vitality and joy.

SOW 6714 Addictions Treatment
3 sh (may not be repeated for credit)

Discussion of the major models and approaches to treatment of addictions used today, including Harm reduction model, Bio-psycho-social-spiritual model and other evidenced based treatment approaches. Specific treatment interventions from models will be discussed throughout. Department Permission is required.

SOW 6916 Mind/Body Practice and Positive Psychology
3 sh (may not be repeated for credit)

A focus on research from the last 25 years that has revolutionized our knowledge of brain function, its relation to overall coping, and specific practices that promote resilience and well-being. It will be an important contribution to the social work curriculum at the master's level because it revolves around a strengths perspective that social work has always embraced, as well as teaching the advanced practitioner specific skills that s/he can use to help clients in the process of improving their lives. The course will be richly multicultural and will also include ancient wisdom from the humanities that supports this new evidence-based field of mind-body interaction. Department Permission is required.

SPC-Speech Communication Courses

SPC 2608 Basic Communication Skills
3 sh (may not be repeated for credit)

Emphasizes the link between the fundamental theories in speech communication and effective public speaking. Includes practical training and study in public presentation skills, audience analysis, speech construction and problem solving using lecture and experiential learning format. Credit may not be received in both SPC 2608 and SPC 2016. General Education: Humanities - Contemporary Values and Expressions.

SPC 3301 Interpersonal Communication
3 sh (may not be repeated for credit)

Emphasizes the link between interpersonal communication skills and relationship building in personal and professional contexts. Includes components on self-awareness, impression management, rapport building, developing intimacy, managing conflict, ethical use of interpersonal power, diversity issues, leadership, and using technology to facilitate interpersonal communication. Involves hands-on service learning project that provides the opportunity to practice interpersonal skills in a professional setting.

SPC 3593 Practicum in Forensics
1-3 sh (may be repeated for up to 10.000 sh of credit)

Active forensics participation through library research, topic analysis, discussion, practice and travel to intercollegiate tournaments. Permission is required. Credit may not be received in both SPC 3593 and SPC 3594.

SPC 3605 Speech Writing, Analysis, and Delivery
3 sh (may not be repeated for credit)
Prerequisite: SPC 2608

Practical application in writing, analyzing, and delivering speeches for a variety of professional and social rhetorical situations.

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

SPC 4540 Propaganda and Persuasion
3 sh (may not be repeated for credit)

Explores persuasion theory of persuasive activity at a variety of turns in the modern world. Special focus is on social movements, political campaigns and advertising. Seeks to gain a clearer understanding of how persuasive strategy works, from where it emerges and why and how we are affected by it.

SPC 4680 Rhetorical Criticism
3 sh (may not be repeated for credit)

The rationale, methods, and applications of rhetorical criticism. Goal is to improve understanding and evaluation of real-world persuasive communication. Lecture and reading materials are divided into two main units. First is the general nature of both rhetoric and criticism, providing a basic conceptual framework for the identification and analysis of rhetorical artifacts. Second is a survey of nine contemporary critical approaches; cluster criticism, fantasy-theme criticism, feminist criticism, genre criticism, ideological criticism, metamorphic criticism, narrative criticism, pentadic criticism, generative criticism.

SPC 4710 Intercultural Communication
3 sh (may not be repeated for credit)

Explores issues related to intercultural communication processes. Considers the important role of context (social, cultural, and historical) in intercultural interactions. The goal is to develop an understanding of the process of communicating across cultural boundaries. Operates from the premise that culture is both a producer and product of communication, and, therefore, an appreciation of communication processes is an essential factor in promoting positive intercultural relations. Meets Multicultural Requirement.

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

SPC 6646 Strategic Approaches to Presentational Speaking
3 sh (may not be repeated for credit)

Emphasizes advanced rhetorical theory, executive-level presentational speaking skill set development, and a diverse array of analytic tools used for context and public audience analysis. Focuses on the strategic application of these analytic and performance tools to instances of public and professional advocacy.

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

SPM-Sports Management Courses

SPM 3004 Introduction to Contemporary Sport Management
3 sh (may not be repeated for credit)

Introduction to the field of sport management required for all students in the major and available to students interested in working in the sport industry. Provides an overview of sport management rather than detailed instructions about how to manage sport enterprises. It serves as a foundation for students' further studies in various subject areas in the field/profession of sport management, such as sport marketing, sport law, sport facility and event management, economics of sport, sport finance, etc.

SPM 3104 Sport Facility and Event Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004

An introduction to sports facilities that focuses on elements of planning, design, and management, while examining event management functions related to maintenance, security, operations, and evaluation. Emphasis will be focused on problem solving utilizing class discussions, guest speakers, and facility site visitations as feasible. Open only to Juniors and Seniors.

SPM 3115 Organizational Management and Leadership in Sport
3 sh (may not be repeated for credit)
Prerequisite: Completion of 60 hours of college course work is required prior to taking this course.
Co-requisite: SPM 3004

Organizational behavior, management, and leadership issues specific to the sport business environment. Students will gain knowledge of management and leadership best practices in sport business. Students will also learn how a variety of management and leadership practices impact sport organizations.

SPM 3306 Sports Marketing
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004

Topics and issues involved in the promotion and marketing of sporting events, products, and services will be discussed. Examination of the evolution, theories, and practical applications of marketing strategies and current issues relative to social, political, ethical, and cultural environments will be presented. Open only to Juniors and Seniors.

SPM 3403 Sport Media
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004

Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting. Open only to Juniors and Seniors.

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

SPM 4003 Sport Management Careers Seminar
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004

Designed to prepare and assist students entering the workforce by completing a field experience and participating in classroom discussions. Students will learn job seeking skills including job searching, creating quality application documents, interviewing, networking, and professionalism. The primary objective of this course is to have students secure their ideal internship. It is taken the semester prior to students' internship/capstone course. Must complete 12 hours of SPM 3/4000 level courses.

SPM 4012 Sociology of Sport
3 sh (may not be repeated for credit)

Students are introduced to the fundamental concepts of sports and sociology and examine various social phenomena taking place relating to sports such as violence and sports in schools and colleges. It introduces students to an array of social theories that apply to analyzing some social issues related to sports such as race and ethnicity, gender, social class, politics, and religion. This course will generate the awareness for students to understand the importance of, and paying attention to, the social functions of sports played in today's society.

SPM 4503 Economic Issues in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004

Introduction to the fundamental concepts of sport economics and economic strategies in the sport industry. Students' knowledge of sport products and practical skills for evaluating economic decision making as part of a sports management team are developed. Open only to Juniors and Seniors.

SPM 4505 Principles and Issues in Sport Finance
3 sh (may not be repeated for credit)
Prerequisite: ((ACG 3082 AND SPM 3004)) AND (ECO 2013 OR ECO 3003)

Students will gain the knowledge necessary to successfully financially manage budget, account, ascertain funding, and navigate other complex sport finance issues. The specific financial implications of managing a sport related business are covered. Open only to Juniors and Seniors.

SPM 4604 Governance in Sport
3 sh (may not be repeated for credit)
Prerequisite: SPM 3004

A study of the growing spread and development of sport throughout the world as well as how the governing bodies involved affect the structure, organization, and delivery of sport. Open only to Juniors and Seniors.

SPM 4723 Sport Law and Risk Management
3 sh (may not be repeated for credit)
Prerequisite: SPM 4723

An introduction to the legal concepts that may significantly affect one's career in management of amateur or professional sports, and of other areas in sport operations. Topics of discussion primarily focus on the legal issues involved in business practices in the sport industry using a case analysis format. Open only to Juniors and Seniors.

SPM 4945 Senior Capstone Experience in Sport Management
6 sh (may not be repeated for credit)

This capstone experience for Sport Management majors provides opportunities for students to put theory into practice through active participation in an appropriate sport organization. While students are able to gain some experience in the field supervised by practitioners in the sport industry, academic support from faculty is provided to ensure students accomplish the goals and objectives planned by the student, the academic instructor, and the field supervisor. Students will complete a capstone project that should advance their learning experience, as well as potentially benefit the sport organization for which they work. Departmental permission is required. Approval by academic adviser and program director is required.

SPN-Spanish Language Courses

SPN 1120C Spanish I
4 sh (may not be repeated for credit)

For students with no knowledge of Spanish or with less than two years of high school Spanish. Lays a foundation for speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 1121C Spanish II
4 sh (may not be repeated for credit)

Continuation of SPN 1120C. Continues development of skills in speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 1905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPN 2200 Intermediate Reading and Translation
3 sh (may not be repeated for credit)

For students who have previous experience in Spanish, but are not yet prepared for advanced work in the language.

SPN 2210 Intermediate Composition & Conversation
3 sh (may not be repeated for credit)

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200.

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

SPN 3400 Advanced Stylistics
3 sh (may not be repeated for credit)

Increasing and improving language skills. Classes conducted in Spanish. Meets Multicultural Requirement.

SPN 3410 Composition and Conversation
3 sh (may not be repeated for credit)

Skill in writing and speaking Spanish.

SPN 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPN 4500 Spanish Civilization
3 sh (may not be repeated for credit)

Cultural and historical background of Spain. Meets Multicultural Requirement.

SPN 4520 Latin American Culture and Civilization
3 sh (may not be repeated for credit)

Cultural and historical backgrounds of Latin American literature. Meets Multicultural Requirement.

SPN 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPN 4955 Intensive Spanish Abroad
1-5 sh (may not be repeated for credit)

Supervised and individualized foreign language experience abroad tailored to each student's individual proficiency needs in language and culture. Instruction will be in Spanish. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Meets Multicultural Requirement.

SPS-School of Psychology Courses

SPW-Spanish Lit:Writings Courses

SPW 3190 Topics in Hispanic Literature
3 sh (may be repeated for up to 6.000 sh of credit)
Prerequisite: SPN 2200

An introduction to the literary analysis of selected Hispanic Texts, using readings and film, discussions and writing assignments. Normally offered in Spanish (it could also be taught in English), it will be aimed at intermediate to native Spanish speakers with an interest in Hispanic--Spanish and / or Latin American--literature. It will enhance language skills and foster an appreciation of Hispanic culture, adding the challenge of applying critical analysis to selected texts in Hispanic literature.

SPW 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPW 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SPW 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SSE-Social Studies Education Courses

SSE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SSE 4113 Social Studies for Elementary Teachers
3 sh (may not be repeated for credit)

Instructional methods and materials for teaching a contemporary program in social studies in the elementary school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies.

SSE 4324 Teaching Social Studies in the Middle and Secondary Schools
3 sh (may not be repeated for credit)

Instructional methods and materials for teaching a contemporary program in the social studies, including classroom management, citizenship education, global education and current trends and approaches to teaching social studies; includes observation / participation in middle and secondary school settings.

SSE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SSE 5045 Teaching Social Studies for the Intermediate Learner
3 sh (may not be repeated for credit)

Instructional methods and materials for teaching a contemporary program in social studies in middle and high school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies. Permission is required.

SSE 6326 Teaching Social Studies in Middle and Secondary Level Education

3 sh (may not be repeated for credit)

Prerequisite: EDM 6944* OR ESE 6944*

Analysis and evaluation of new programs and practices in teaching middle and secondary school social studies in terms of rationale, structure of disciplines and teaching strategy models; development, implementation and demonstration of creative teaching techniques designed to improve pupils' and teachers' understandings of and attitudes toward the study of social studies. Admission to Teacher Education and permission is required.

SSE 6905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

SSE 7905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.

STA-Statistics Courses

STA 2023 Elements of Statistics

3 sh (may not be repeated for credit)

Prerequisite: MAC 1105* OR MAC 1114* OR MAC 1140* OR MAT 1033* OR MGF 1106* OR MGF 1107* OR 22 ACT Math OR 520 SAT Math

Fundamental statistical concepts. Probability, inference, estimation, hypothesis testing. General Education: Mathematics - Applied. Gordon Rule: Applied Mathematics.

STA 3162C Applied Statistics

4 sh (may not be repeated for credit)

Prerequisite: MAC 2311

Inferential statistics from an applied point of view. Probability and sampling distributions, confidence intervals and hypothesis testing, ANOVA, correlation, simple and multiple linear regressions. SAS computer techniques. Lab required. Gordon Rule: Applied Mathematics.

STA 3905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

STA 4173 Biostatistics

3 sh (may not be repeated for credit)

Prerequisite: STA 2023

A second course in statistics for students in the Biological Sciences. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Offered concurrently with STA 5176; graduate students will be assigned additional work. Gordon Rule: Applied Mathematics.

STA 4321 Introduction to Mathematical Statistics I

3 sh (may not be repeated for credit)

Prerequisite: MAC 2312

Probability, conditional probability, distributions of random variables, distribution of functions of random variables, limiting distributions, multivariate probability distributions. Offered concurrently with MAP 5XX1 (Introduction to Mathematical Statistics I); graduate students will be assigned additional work. Gordon Rule: Applied Mathematics.

STA 4322 Mathematical Statistics II

3 sh (may not be repeated for credit)

Prerequisite: STA 4321

Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 5326; graduate students will be assigned additional work. Gordon Rule: Applied Mathematics.

STA 4664 Introduction to Statistical Quality Control

3 sh (may not be repeated for credit)

Prerequisite: STA 2023

Covers control charts, capability indices, and related topics used in process control. Gordon Rule: Applied Mathematics.

STA 4905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

STA 5166 Special Topics in Statistics

3 sh (may not be repeated for credit)

Introduction to one- and two-way ANOVA; nonparametric methods, correlation and linear regression analysis. Introduction to SAS.

STA 5176 Statistical Modeling

3 sh (may not be repeated for credit)

A second course in statistics for students in the Mathematical Sciences Graduate Program. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Students will use matrix algebra to derive some properties of regression diagnostics, in addition to using the method of least squares to derive optimal estimators in linear models. This course is offered concurrently with STA 4173; graduate students will be assigned additional work.

STA 5326 Mathematical Statistics II

3 sh (may not be repeated for credit)

Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 4322; graduate students will be assigned additional work.

STA 5905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

STA 6235 Modeling in Regression
3 sh (may not be repeated for credit)
Prerequisite: STA 5176

Several advanced topics in regression are covered, such as nonlinear regression, influence diagnostics, Eigensystem analysis of $X'X$ matrix, logistic regression, ridge regression, robust regression, and generalized linear models.

STA 6246 Design and Analysis of Experiments
3 sh (may not be repeated for credit)

Further concepts in design and analysis of planned experiments with emphasis on confounding and fractional replications of factorial experiments; composite designs; incomplete block designs; estimation of variance components.

STA 6507 Nonparametric Statistics
3 sh (may not be repeated for credit)

Extensive coverage of goodness-of-fit tests, location problems, association analysis and general nonparametric topics.

STA 6607 Operations Research I
3 sh (may not be repeated for credit)

Mathematical probability models and distributions; linear programming models; the simplex method; duality and sensitivity analysis; inventory models; queuing theory; simulation.

STA 6666 Statistical Quality Control I
3 sh (may not be repeated for credit)

Procedures used in acceptance sampling and statistical process control are based on concepts and theory from probability and statistics. Introduces the applications of these procedures, investigates them from the standpoint of their statistical properties and develops the methodology for construction, evaluation and comparison of procedures.

STA 6707 Multivariate Methods
3 sh (may not be repeated for credit)
Prerequisite: STA 6707

Multivariate extensions of Chi-Square and t-tests; discrimination and classification procedures; applications to diagnostic problems in biological, medical, anthropological and social research; multivariate analysis of variance; factor analysis and principle components analysis.

STA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

STA 6930 Proseminar in Statistics
1 sh (may not be repeated for credit)

Each M.A. candidate (except those who choose the thesis option), shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory / unsatisfactory basis only. MA candidacy and permission is required.

STA 6971 Thesis
1-6 sh (may be repeated for up to 8.000 sh of credit)
Graded on satisfactory / unsatisfactory basis only. Permission is required.

* This course may be taken prior to or during the same term.

SYA-Sociological Analysis Courses

SYA 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYA 7905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD-Sociology of Demog/Area Courses

SYD 3810 Introduction to Women's Studies
3 sh (may not be repeated for credit)

Examination of the economic, political, social and cultural positions of women in the past and now in American society. Also examines social roots of their self-concepts, values, beliefs and perceptions.

SYD 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD 4800 Sociology of Sex Roles
3 sh (may not be repeated for credit)

Changing sex roles in American society with particular attention to socialization and sex-differentiated roles in social institutions.

SYD 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYD 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG-Sociology: General Courses

SYG 2000 Introduction to Sociology
3 sh (may not be repeated for credit)

Fundamental principles concerning social relationships, social interaction and social structure. General Education: Social Science - Socio-Political Perspectives.

SYG 2010 Current Social Problems
3 sh (may not be repeated for credit)

Major social issues affecting individuals in groups in modern industrial societies. Not open to students with Social Problems as lower division course. General Education: Social Science - Socio-Political Perspectives.

SYG 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYG 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO-Social Organizations Courses

SYO 3100 The Family
3 sh (may not be repeated for credit)

Social and psychological aspects of interpersonal relationships within the family. Emphasis on modern problems of family.

SYO 3250 Sociology of Education
3 sh (may not be repeated for credit)
Prerequisite: SYG 2000

This course will examine the school, the social organization of schools and school systems, situated in society. It will explore the school in the context of and as a constructed entity in society, interdependent on other institutions, molded by social forces and social norms, and, as an effective vehicle for promoting multicultural awareness and for meeting the educational needs of the diverse populations. Sociologists who study education utilize various theories and empirical methodologies in order to understand the relationship between schools and society. Accordingly, this course will examine the importance of education as a social institution from a sociological perspective. The course will begin by discussing the history and goals of education, as well as the ways in which sociologists have sought to understand this institution. We will then examine important topics including educational inequality, the dynamics of race, class, and gender in education, standardized testing, school choice, and higher education. Meets Multicultural Requirement.

SYO 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 4530 Inequality in America
3 sh (may not be repeated for credit)

Social classes and class relations, changing forms and patterns of inequality in American society.

SYO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP-Social Processes Courses

SYP 3630 Popular Culture
3 sh (may not be repeated for credit)

Analysis of the social foundations and cultural ramifications of mass culture with primary reference to American society.

SYP 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

SYP 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

Speech Education Courses

SED 5340C College Teaching of Speech Communication
3 sh (may not be repeated for credit)

Guides students through theory, techniques and experiential learning environments related to the college teaching of speech communication. Permission is required.

TAX-Taxation Courses

TAX 3021 Tax For Decision Makers
3 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Coverage of tax topics and how they influence financial and business decisions. Available to non-accounting majors only.

TAX 4001 Tax Accounting
3 sh (may not be repeated for credit)
Prerequisite: ACG 3101

Principles of federal income taxation as provided in Internal Revenue Code and regulations; added concentration on principles applicable to individuals. Landmark cases and significant current treasury releases discussed. Credit may not be received in both TAX 4001 and TAX 4002.

TAX 4012 Corporate Income Tax
3 sh (may not be repeated for credit)
Prerequisite: TAX 4001

Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earning, distributions, reorganizations, liquidations, and Subchapters. In addition, the formation, operation, and termination of partnerships will be studied. Offered concurrently with TAX 5105; graduate students will be assigned additional work.

TAX 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TAX 5105 Corporate Income Tax
3 sh (may not be repeated for credit)

Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earnings, distributions, reorganizations, liquidations and Subchapters. Offered concurrently with TAX 4012; graduate students will be assigned additional work.

TAX 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TAX 6065 Tax Data Bases, Research and Procedure
3 sh (may not be repeated for credit)

Interpretative sources of tax laws and their interrelationships plus an analysis of federal tax procedures at the judicial and administrative level.

TAX 6405 Estate Gift and Trust Taxation
3 sh (may not be repeated for credit)

Estate and gift taxation and Subchapter J with emphasis on family tax planning.

TAX 6875 Special Topics in Taxation
3 sh (may not be repeated for credit)

An advanced course in taxation of individuals and business entities. Intended for students interested in advanced tax issues. Emphasis is placed on topics usually not covered in other tax courses. Ideally suited for exploring the constantly changing federal tax law. Permission is required.

TAX 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE-Theatre Stud Gen Reso Courses

THE 2000 The Theatre Experience
3 sh (may not be repeated for credit)

Role of theatre in contemporary American culture. Arts and craft of theatre, including drama, criticism, acting and production. General Education: Humanities - Fine Arts.

THE 2300 Survey of Dramatic Literature
3 sh (may not be repeated for credit)

Survey of play scripts representing a succinct history of Western drama. General Education: Humanities - Fine Arts. Gordon Rule: Writing.

THE 2905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE 2925 Play Production
1 sh (may not be repeated for credit)

Study and participation in the preparation and production of plays and/or musicals. Material and Supply Fee will be assessed.

THE 3090 Theatrical Production & Performance
1 sh (may be repeated for up to 9.000 sh of credit)
Prerequisite: TPA 2200

Individualized study in all areas of theatrical production and performance through apprenticeship on departmental productions during a semester. Completion of all lower division common prerequisites is required. Material and Supply Fee will be assessed.

THE 3112 History of Theatre I
3 sh (may not be repeated for credit)

Theatre history from origins through the eighteenth century.

THE 3113 History of Theatre II
3 sh (may not be repeated for credit)

Theatre history from eighteenth century through the present.

THE 3243 Musical Theatre History
3 sh (may not be repeated for credit)

History and development of musical theatre from origins to present.

THE 3306 Dramatic Literature II
3 sh (may not be repeated for credit)
Prerequisite: THE 2300

A survey of play scripts representing important contributions from various genres of Western Theatre from the Greeks through contemporary Drama.

THE 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE 4260 Costume History
3 sh (may not be repeated for credit)

Historical periods of costume and fashion from ancient times to the present, their relation to theatre history, and potential use as sources for theatrical costume design.

THE 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE 4970 Senior Project
3 sh (may not be repeated for credit)

Preparation and completion of performance or design presentation as culminating project for the Bachelor of Fine Arts or Bachelor of Arts degree. Permission is required.

THE 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

THE 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TPA-Transportation Logistics Courses

TPA 2000 Design for the Theatre
3 sh (may not be repeated for credit)

Play analysis for visual elements and expression. Stylistic sources as springboards to the design idea. Development of visual concepts for productions.

TPA 2200 Technical Theatre
3 sh (may not be repeated for credit)
Co-requisite: TPA 2290L

Methods of constructing and rigging scenery for the stage. Basic scene painting techniques. Stage lighting equipment and its use. Lab required.

TPA 2248 Introduction to Stage Makeup
3 sh (may not be repeated for credit)

Basic principles of the art of stage makeup. Practice in the design and execution of makeup for various purposes. Material and Supply Fee will be assessed.

TPA 2290L Technical Theatre Laboratory
1 sh (may not be repeated for credit)
Co-requisite: TPA 2200

A practical laboratory for application of technical theatre skills. Material and supply fee will be assessed.

TPA 3020 Lighting Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 3344

Introduction to the work of the lighting designer through theoretical design projects and light lab projects. The theoretical designs cover the design process that the lighting designer uses to light a theatrical production. Each theoretical design introduces new concepts and challenges for the designer. The light lab projects build your ability to understand light and how to use light in a theatre situation. Projects also build in complexity and add to the overall design experience.

TPA 3060 Scene Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 2000* AND TPA 3344

Scene design is a complex combination of artist, painter, sculptor, actor, and director. Designers need to be able to envision the script and translate it to a three dimensional space, interpret how the actor is going to move in the space and how the director will compose the stage picture. Course examines those aspects of design and through theoretical projects explores visualizing a script in theatrical space.

TPA 3223 Lighting Technology
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200

Advanced study of the lighting equipment, dimmers, control, and other electronics used in the Theatre.

TPA 3230 Costume Construction
3 sh (may not be repeated for credit)

Techniques of patterning, cutting, fitting, draping, and basic construction of stage costumes. Material and supply fee will be assessed.

TPA 3313 Scenic Technology
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200

Advanced study of theatrical construction techniques, rigging, materials, hardware, and their use in the Theatre. In addition, the study of drafting for construction drawing, budgeting, time estimations and theatre safety.

TPA 3344 Drafting for the Stage
3 sh (may not be repeated for credit)
Prerequisite: TPA 2200

Drafting is a very important communication tool for designers and technicians in the theatre, allowing them to give precise directions on how a project is to be implemented. Students gain an understanding of drafting tools to effectively communicate ideas in a clear and precise form. Offered Spring semester only.

TPA 3601 Stage Management
3 sh (may not be repeated for credit)
Prerequisite: THE 2000

Stage Managers work with things and people. Course clarifies the things to work with as a Stage Manager and the techniques needed to work effectively with them. Discusses different methods to use with the myriad of people and personalities encountered in the Theatre. Improvisation and class discussion are employed to examine how to work more effectively with everyone on a production.

TPA 4021C Lighting Design II
3 sh (may not be repeated for credit)
Prerequisite: TPA 3020

Advances the study of the design process involved in lighting design. Theoretical design projects and light lab projects are used to give the student challenges in the classroom that can be directly translated to the design process. Theoretical projects in a variety of design venues and types of theatre with lab projects that further build the designer's resources.

TPA 4045 Costume Design I
3 sh (may not be repeated for credit)
Prerequisite: TPA 4260

Introduction to theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size. Permission is required.

TPA 4046 Costume Design II
3 sh (may not be repeated for credit)
Prerequisite: TPA 4045

Advanced theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size.

TPA 4061 Scene Design II
3 sh (may not be repeated for credit)
Prerequisite: TPA 3060

Advanced projects in scene design examine the challenges involved in designing in a variety of different venues and types of production. Expands the designer's tools to communicate their design idea to the director.

TPA 4077 Scene Painting
2 sh (may not be repeated for credit)

Practice in various techniques of scene painting. Consideration of pigments, color mixing, kinds of paints, paint equipment and its care. Material and supply fee will be assessed.

TPA 4504 Performing Arts Administration
3 sh (may not be repeated for credit)

Various aspects involved in the administration of a Performing Arts Organization. Special attention will be paid to the interrelationship in both goals and administration among various performing arts institutions including theatres, opera companies, and symphonies. Lectures and class discussion will provide an overview of the different areas of non-profit performing arts administration (including organizational structures, marketing, fundraising, grant writing, financial management, and producing) and applying these skills to the unique needs of a theatre company or other performing arts organization.

TPA 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

TPA 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.

TPP-Theatre Perf Perf Train Courses

TPP 1282 Voice and Movement for the Stage
3 sh (may not be repeated for credit)

Beginning course in the exploration of the sources of voice and movement and the process of developing individual expression and strength. Required of all theatre majors and directed primarily toward preparation for stage work.

TPP 2100 Acting for Non-majors
3 sh (may not be repeated for credit)

Introduction to the process of acting. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2110 Acting I

3 sh (may not be repeated for credit)

An introduction to the process of acting designed for students with some prior experience on stage. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2190 Rehearsal and Performance

1 sh (may not be repeated for credit)

Production involvement in any area of theatre performance. Permission is required. Material and Supply Fee will be assessed.

TPP 2250 Music Theatre Fundamentals

2 sh (may not be repeated for credit)

Co-requisite: TPP 2250L

This course is designed to introduce students to the theories supporting music readiness. Students will learn and be able to demonstrate skills in sight-reading including rhythm, aural skills, and functional piano. All elements of this course will be tailored to be applicable to the student's study in musical theatre and will be practiced weekly during lab hours. Permission is required. Offered Fall semester only.

TPP 2250L Musical Theatre Vocal Theory Lab

1 sh (may not be repeated for credit)

Co-requisite: TPP 2250

The Lab will provide students the opportunity to execute their skills in music readiness by demonstrating assigned concepts on the piano. These will be directly applied to music they are preparing to perform.

TPP 2905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

TPP 3121 Acting Improvisation

3 sh (may not be repeated for credit)

Prerequisite: TPP 2100* OR TPP 2110

Study of improvisational technique through games and exercises.

TPP 3155 Acting II

3 sh (may not be repeated for credit)

Prerequisite: TPP 2110

Continues development of the fundamentals of acting through work on scenes from contemporary American theatre. Further develops student's understanding of the various acting philosophies and techniques of Hagen and Stanislavski.

TPP 3221 Audition Techniques

3 sh (may not be repeated for credit)

Prerequisite: TPP 2110

Techniques for audition in theatre, musical theatre, television, and film including resume preparation and an overview of opportunities in professional acting and graduate school.

TPP 3250 Musical Theatre Performance

3 sh (may not be repeated for credit)

Serving as the capstone to the Musical Theatre B.F.A. Combines the study of vocal technique with acting technique to create a performance ensemble to tour to various venues throughout the region.

TPP 3252C Music Theatre Scene Study

3 sh (may not be repeated for credit)

Prerequisite: TPP 3155

Students will work on scenes and songs from musical theatre repertoire of different styles and / or eras. Work will involve partner work and / or work in small groups.

TPP 3257 Musical Theatre Voice

1 sh (may be repeated for up to 8.000 sh of credit)

Prerequisite: TPP 2250

Vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and interpretation of songs for musical theatre production.

TPP 3260 Acting for the Camera

3 sh (may not be repeated for credit)

Prerequisite: TPP 3260

Adapting the craft of acting to the needs of the TV or film camera. Work in a studio on scenes, daytime serials, commercials. Permission is required. Material and supply fee will be assessed.

TPP 3310 Play Directing

3 sh (may not be repeated for credit)

Prerequisite: TPP 3155 AND TPP 3650

This course is an introduction to the art and craft of directing for the stage. Class work is aimed at teaching new directors the fundamentals of analyzing the text, communicating effectively with actors, working on different types of stages, and creating a cohesive production concept. This course requires rehearsal time outside of regularly scheduled class hours.

TPP 3650 Script Analysis

3 sh (may not be repeated for credit)

Prerequisite: THE 2300

Exploration of a variety of styles and historical periods of play scripts through reading and analysis of the text as the basis of performance and production.

TPP 3743C Music Theatre Voice for Actors

1 sh (may be repeated for up to 4.000 sh of credit)

Prerequisite: TPP 2250*

Students will learn vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and song interpretation. Students will work both in groups and individually in front of the class.

TPP 3905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

TPP 4113 Acting III

3 sh (may not be repeated for credit)

Prerequisite: TPP 1282 AND TPP 3155

Developing the actor's timing, vocal, and physical skill to create characters in plays from Restoration, French farce, Theatre of the Absurd, etc. Credit may not be received in both TPP 4113 and TPP 4141.

TPP 4905 Directed Study

1-12 sh (may be repeated indefinitely for credit)

* This course may be taken prior to or during the same term.

TRA-Transportation Logistics Courses

TRA 3153 Strategic Transportation Management
3 sh (may not be repeated for credit)

Presents the fundamental elements necessary to plan transportation systems. It examines the importance of transportation in the economy and the strategic and operational roles of transportation in supply chains. Emphasis is placed on domestic and global transportation operations, services pricing, carrier selection, equipment and shipment planning, transportation execution systems, intermodal operations, security, and expanded services in distribution.

TRA 3234 Warehousing and Terminal Management
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202

Planning and managing the flow of materials, parts and finished goods from suppliers, through production and final distribution to customers. Domestic distribution and import/export intermodal terminal operations are examined to understand how decisions and performance pertaining to such operations influence service quality, total cost to the organization and total cost for the entire supply chain.

TRA 4155 Seminar in Supply Chain Logistics Strategy
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202 AND TRA 4202*

Seminar in Supply Chain Logistics Strategy provides active learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today's supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Offered concurrently with TRA 5159; graduate students will be assigned additional work.

TRA 4202 Logistics Systems and Analytics
3 sh (may not be repeated for credit)
Prerequisite: MAR 3202

Students will learn to make improved business logistics and supply chain management decisions through the practical application of multiple analytical techniques used by managers in the field. Emphasis is placed on supply chain network analysis and design, inventory analysis and decision making, equipment and resource management, information management systems for analyzing and executing logistics decisions, and process management improvements to reduce total logistics cost and improve logistics service. Offered concurrently with TRA 5206; graduate students will be assigned additional work.

TRA 5159 Seminar in Supply Chain Logistics Strategy
3 sh (may not be repeated for credit)
Prerequisite: TRA 5206*

Seminar in Supply Chain Logistics Strategy provides active-learning opportunities for students to evaluate current strategic issues in managing logistics and transportation throughout consumer and industrial supply chains. Today's supply chains require managers to be skilled in evaluating complex business logistics situations and in making decisions that have immediate and long-term corporate implications. The real-world and live case-based materials are designed to help students develop high-level analytical and decision-making skills pertaining to the many logistics operations that influence the service levels and capabilities of domestic and global supply chains. Must have the equivalent of MAR 3202 Supply Chain Logistics Management, or TRA 3153 Transportation Strategy, or MAN 3504 Operations Management. Offered concurrently with TRA 4155; graduate students will be assigned additional work.

TRA 5206 Logistics Systems and Analytics
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.

TSL-Teach Eng as a Second Lang Courses

TSL 4080 ESOL Principles and Practices
3 sh (may not be repeated for credit)

Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 5085; graduate students will be assigned additional work.

TSL 4081 Empowering Teachers to Teach English to ESOL Students
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080

This is the second of two courses designed to provide students with information and skills concerning the education of students who have limited English proficiency. The course addresses cross-cultural understanding and methods of teaching English to speakers of other languages. It also focuses on the role of applied linguistics in second language teaching and the role and function of assessment of ESOL students.

TSL 4140 ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080

This course builds on knowledge and skills developed in the prerequisite course. It will extend understanding of various ways that language and culture affect second language learners' participation and learning in K-12 classrooms. This course covers the study of curriculum and materials development for English Language Learners (ELL), reviews the educational theories of language acquisition, learning and literacy, and provides class participants with knowledge of ESOL methodologies. This course will introduce ESOL program models and materials and will cover the integration of language and content. Instruction of second language learners and practical application of course material will be emphasized throughout the class. Offered concurrently with TSL 5142; graduate students will be assigned additional work.

TSL 4251 Applied Linguistics
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080

This course aims to provide the basis linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar considered necessary to teach English to English Language Learner (ELL). Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. Students will participate in the process of applying the linguistics, psycholinguistics, and sociolinguistics to teaching English as a second language with emphasis on pronunciation, intonation, structural analysis, morphophonemic, and decoding from print to sound. In addition, students will apply the knowledge gained to perform contrastive analysis and will use error analysis on the interference problems found with the ESOL students. The course addresses cross cultural understanding and methods of teaching English to speakers of other languages but focuses on the role of applied linguistics in second language teaching and the assessment of ESOL students. Offered concurrently with TSL 5250; graduate students will be assigned additional work.

TSL 4340 Methods of Teaching ESOL
3 sh (may not be repeated for credit)
Prerequisite: TSL 4140

Based on the fundamentals acquired in the prerequisite course, students will learn the history of approaches in language learning and teaching, transitional methods and the most current methods and approaches in teaching English as an additional language. Students will also examine the approaches that are believed to be most effective in teaching English Language Learners (ELLs) with an emphasis on the four language modes as well as the development of vocabulary in L2. Offered concurrently with TSL 4345.

TSL 4441 Testing and Evaluation
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080

Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate widely used language tests, construct and administer language tests, and examine how test scores are used in educational settings. The use of authentic assessment for English Language Learners and the unique role of language will be a focus. Offered concurrently with TSL 5440; graduate students will be assigned additional work.

TSL 4520 Cross Cultural Communication and Understanding
3 sh (may not be repeated for credit)
Prerequisite: TSL 4080

Develops awareness and understanding of the cultures represented by the different language minorities within Florida and the nation; provides an emphasis on research that will enable participants to plan and implement curriculum, instruction, and assessment activities to meet special needs of linguistically and culturally diverse students.

TSL 5085 ESOL Principles and Practices
3 sh (may not be repeated for credit)

Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 4080; graduate students will be assigned additional work.

TSL 5142 ESOL Curriculum and Materials Development
3 sh (may not be repeated for credit)

Covers the study of curriculum and materials development for second language learners. It reviews the educational theories of language acquisition, learning and literacy. It provides class participants with knowledge of the various types of curricula, and the problems and solutions inherent in standardized curricula. Will also introduce ESOL program models currently used in Florida. Students will receive the necessary skills to select and use appropriate ESOL instructional strategies, materials, and classroom use, and to develop their own ESOL instructional units, materials and technologies. Offered concurrently with TSL 4140; graduate students will be assigned additional work. Credit may not be received in TSL 5142 and either TSL 6145 or TSL 5145.

TSL 5250 Applied Linguistics
3 sh (may not be repeated for credit)

Aims to provide the basic linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar needed to teach English to second language learners. Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. The participants will apply the knowledge gained to do contrastive analysis and will use error analysis on interference problems found with ESOL students. This will take place during a practicum in EFL or ESOL environment. Offered concurrently with TSL 4251; graduate students will be assigned additional work. Credit may not be received in both TSL 5250 and TSL 6250.

TSL 5345 Methods of Teaching ESOL
3 sh (may not be repeated for credit)
Prerequisite: TSL 5142

Based on the fundamentals acquired in the prerequisite course, students will learn the history of approaches in language learning and teaching, transitional methods and the most current methods and approaches in teaching English as an additional language. Students will also examine the current approaches that are believed to be most effective in teaching English Language Learners (ELLs) with an emphasis on the four language modes as well as the development of vocabulary in L2. Offered concurrently with TSL 4340 (Methods of Teaching ESOL); graduate students will be assigned additional work. Offered Fall and Spring semester only.

TSL 5440 Testing and Evaluation
3 sh (may not be repeated for credit)

Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate widely used language tests, construct and administer language tests, and examine how test scores are used in educational settings. The use of authentic assessment for English Language Learners and the unique role of language will be a focus. Offered concurrently with TSL 4441; graduate students will be assigned additional work. Credit may not be received in both TSL 5440 and TSL 6440.

TSL 5525 Cross Cultural Communication and Understanding
3 sh (may not be repeated for credit)

Develops awareness and understanding of the cultures represented by the different language minorities within Florida and the nation; provides an emphasis on research that will enable participants to plan and implement curriculum, instruction, and assessment activities to meet the special needs of linguistically and culturally diverse students. Offered concurrently with TSL 4520; graduate students will be assigned additional work.

TSL 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

URP-Urban Regional Planning Courses

WST-Women's Studies Courses

Zoo-Zoology Courses

ZOO 3556 Biology of Coral Reefs
3 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Overall, the aim of this course is to highlight the organization, structure, productivity, and biological diversity of the coral reef ecosystem. Special attention and focus will be given to environmental and anthropogenic disturbances.

ZOO 3558 Coral Reefs
3 sh (may not be repeated for credit)

Coral Reefs is a non-biology major course designed to provide a general overview of tropical and sub-tropical coral reefs to students with an interest in these fascinating ecosystems, but who lack a strong theoretical background in the biological sciences. Covers basic concepts dealing with the structure, formation, biology and ecology of Atlantic and Pacific coral reefs. Students will be presented with interactive exercises, projects, and module-assessments throughout the course that will reinforce major biological concepts and promote critical thinking.

ZOO 3905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ZOO 4254 Marine Invertebrate Zoology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L
Co-requisite: ZOO 4254L

Survey of the invertebrates, with emphasis on systematics, morphology, physiology and ecology. Labs include detailed study of types and exposure to diversity, using live and preserved specimens, and exposure to techniques used in zoological research. Emphasis is on local marine species. Material and supply fee will be assessed for corresponding lab.

ZOO 4254L Marine Invertebrate Zoology Lab
0 sh (may not be repeated for credit)

Co-requisite: ZOO 4254

Corresponding lab for Marine Invertebrate Zoology.

ZOO 4304 Marine Vertebrate Zoology
4 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Co-requisite: ZOO 4304L

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab.

ZOO 4304L Marine Vertebrate Zoology Lab
0 sh (may not be repeated for credit)

Co-requisite: ZOO 4304

Corresponding lab for Marine Vertebrate Zoology.

ZOO 4454 Elasmobranch Biology
3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 5452; graduate students will be assigned additional work.

ZOO 4457 Fish Physiology
3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Classic and contemporary topics in fish physiology discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 5458; graduate students will be assigned additional work.

ZOO 4485 Marine Mammalogy
3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 5486; graduate students will be assigned additional work.

ZOO 4513 Animal Behavior
3 sh (may not be repeated for credit)

Prerequisite: BSC 2011/L

Contemporary view of animal behavior including discussion of sensory and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 5514; graduate students will be assigned additional work.

ZOO 4880C Fisheries Biology
4 sh (may not be repeated for credit)
Prerequisite: BSC 2011/L

Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 5881C; graduate students will be assigned additional work.

ZOO 4905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ZOO 5305 Marine Vertebrate Zoology
4 sh (may not be repeated for credit)
Co-requisite: ZOO 5305L

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab. Offered Concurrently with ZOO 4304; Graduate students will be assigned additional work.

ZOO 5305L Marine Vertebrate Zoology Laboratory
0 sh (may not be repeated for credit)
Co-requisite: ZOO 5305

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab. Offered concurrently ZOO 4304L; Graduate students will be assigned additional work.

ZOO 5452 Elasmobranch Biology
3 sh (may not be repeated for credit)

Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 4454; graduate students will be assigned additional work.

ZOO 5458 Fish Physiology
3 sh (may not be repeated for credit)

Classic and contemporary topics in fish physiology discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 4457; graduate students will be assigned additional work.

ZOO 5486 Marine Mammology
3 sh (may not be repeated for credit)

Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology, and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 4485; graduate students will be assigned additional work.

ZOO 5514 Animal Behavior
3 sh (may not be repeated for credit)

Animal behavior including discussion of sensory biology and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.

ZOO 5881C Fisheries Biology
4 sh (may not be repeated for credit)

Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 4880C; graduate students will be assigned additional work.

ZOO 5905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

ZOO 6905 Directed Study
1-12 sh (may be repeated indefinitely for credit)

Index

#

990-999 Course Numbers288

A

A. A. Degree Forgiveness Policy34

About UWF 4

Academic Advising (After Admission) 19

Academic Advising (Registration Policies and Procedures)27

Academic Calendar7

Academic Misconduct Code, UWF26

Academic Policies20

Academic Progress (Military and Veterans' Information) 55

Academic Standing21

Accounting71

Accreditation4

Admission Denial, Appeal of16

Admission, After17

Admissions10

Admissions General Provisions (Transfer)12

Admissions, Freshman10

Admissions, International Undergraduate 14

Admissions, Transfer12

Advance Payment (Military and Veterans' Information) 55

Age of Credit34

Alabama Differential Out-of-State Tuition 50

Alma Mater4

Anthropology74

Appeal (Transfer Admissions)14

Appeal for Late Fee Assessments and Refunds47

Appeals and Requests for Waivers or Exceptions26

Arabic Language and Culture Certificate79

ArgoAlert – Emergency Notification System 60

Art80

Associate of Arts285

Associate of Arts Degree Requirements37

Athletic Training 83

Audit Grading29

B

Baccalaureate Honors37

Bachelor's Degree Requirements36

Bachelor's Degrees, Additional36

Biology86

Biology Honors91

Bookstore 60

Business, General91

C

Career and Technical Education 94

Career Services 60

Catalog, Choice of 23

Certificate Programs (Military and Veterans' Information)56

Certificate Programs, Undergraduate 70

Chambered Nautilus 4

Chemistry, Bachelor of Arts97

Chemistry, Bachelor of Science103

Child Care61

Class Attendance23

Classification of Courses 287

Classification of Students21

Clinical Laboratory Sciences108

College and Department Responsibilities20

College Mission Statements 5

Commencement38

Communication Arts111

Community Health Education 116

Computing and Information Sciences123

Continuous Enrollment24

Contracts and Fees Paid by Another Agency45

Cooperative Education60

Copy Services61

Correspondence Study 35

Counseling and Wellness 61

Course Equivalencies, General Rule for286

Course Information286

Course Level287

Course Numbering System, Florida Statewide 286

Course Prefix 286

Courses at Nonregionally Accredited Institutions287

Courses Not Eligible for Benefits (Military and Veterans' Information) . 55

Courses Outside Degree Programs28

Courses with Special Fees288

Courses, How to Find287

Credit by Proficiency Examination 35

Criminal Justice133

D

Degree Audit System	38
Degree Requirements, General	38
Degrees, Specializations, and Minors, Undergraduate	67
Delinquent Balances	45
Descriptions	294
Dining Services	61
Directed Independent Study	28
Disability Services for Students	62

E

Economics	136
Economics, Business	139
Education, Elementary	147
Education, Exceptional Student	166
Emergency Management	62
Engineering Technology	151
Engineering, Computer	119
Engineering, Electrical	143
English	156
Enrollment Definition	20
Enrollment Limitations (Transfer Admissions)	13
Environmental Science	160
Equipment Fees	288
Equivalency, Exceptions to the General Rule for (Course Information)	287
Equivalent Courses, Authority for Acceptance of	286
Excess Hours Fee	29

F

Faculty	8
Fees, Payment of	44
Final Examinations	31
Finance	170
Financial Aid	52
Financial Aid, Applying for	52
Financial Aid, Satisfactory Progress Requirements	52
Fine Arts	175
Florida Prepaid College Program	45
Frequently Used Services (Online Campus)	57

G

General Education	173
General Information	286
General Policies, Academic	20
Governance and Administration	8

Governance, Administration and Faculty	8
Grade Appeal	34
Grade Changes	33
Grade Forgiveness Policy	33
Grades and Academic Credit Policies	32
Grades of Incomplete	33
Grades, Access to	36
Grading System	32
Graduation and General Degree Requirements	36
Graduation Application	37
Graduation, Summer	38
Grants	52
Grievances	26

H

Health Sciences	189
Health Services	62
Health, Leisure and Exercise Science	179
History	193
Honor Rolls	33
Hospitality, Recreation, and Resort Management	196
Hours (Course Information)	287
Housing and Residence Life	62
Humanities, Interdisciplinary	199

I

Immunization Requirements	17
Information Technology	202
Information Technology Services	63
International Student Exchange Programs	32
International Studies	205

L

Late Registration	28
Late Registration and Late Payment Fees	46
Legal Studies	208
Libraries	63
Limited Access Programs (Transfer Admissions)	13
Loans	53

M

Major or Area of Specialization, Change of	22
Management	211
Management Information Systems	215
Marine Biology	219
Maritime Studies	222

Marketing225

Material and Supply Fees291

Mathematics229

Microsoft Certified Systems Administration Certificate231

Military and Veterans' Information54

Military Education Advising57

Military Personnel54

Minors22

Music232

Music Education235

N

Nautilus Card18

Non-Degree Seeking Status21

Non-Traditional Credit35

Nursing238

Nursing, Registered Nurse to Bachelor of Science in Nursing241

O

Oceanography244

Online Campus57

Online Campus Fee57

Online Campus Programs57

Out-of-State Tuition Waivers57

P

Parking Permit18

Parking Services64

Philosophy244

Physics247

Police, University66

Political Science250

Postal Services64

Posthumous Baccalaureate Degree37

Pre-Engineering254

Pre-Pharmacy254

Preparatory Courses28

Professional Education Minor254

Psychology255

Public Administration Minor259

Public Service and Research Centers58

R

Readmission16

Recreation and Sports Services64

Refund of Fees47

Register for Classes18

Registration Appeals26

Registration Holds27

Registration Policies and Procedures27

Reinstatement for Canceled Registration31

Repeat Course Surcharge30

Repeated Courses33

Reporting Requirements (Military and Veterans' Information)55

Residency Documentation49

Residency for Tuition Purposes49

Residency Status, Change of50

Residency, Determination of Dependent or Independent Status49

Residency, Special Categories for Temporary Florida Residency50

Restricted Access Programs (Transfer Admissions)13

Return of Title IV Funds (Student Responsibility)47

ROTC, Air Force262

ROTC, Army260

S

Scholarships53

Sciences, Interdisciplinary263

Semester Course Offered288

Senior Citizen Tuition Fee Waiver32

Servicemembers Opportunity Colleges (Military and Veterans' Information)54

Skills Improvement Centers65

Social Sciences, Interdisciplinary269

Social Work272

Southern Regional Education Board's (SREB) Electronic Campus29

State Employee Tuition Fee Waiver31

Student Educational Records24

Student Employment53

Student Involvement59

Student Ombudsperson65

Student Printing64

Student Responsibilities20

Student Rights and Responsibilities18

Student Services and Resources60

Student Technology and Electronic Mail Requirement20

Substitution of Graduation Requirements for Students with Disabilities26

Supply Chain Logistics Management276

T

Teacher Education Programs279

Testing	66
Theatre	280
Theatre, Fine Arts	283
Transcripts	36
Transfer Credit	34
Transfer Student Admission	12
Transfer Student Applicants, General Application Processing for	13
Transient Student	32
Tuition and Fees	44
Tuition Deferment (Military and Veterans' Information)	54
Tuition Waivers	45

U

Unassigned Course Numbers (XXX and —) (Course Information) ..	287
Undergraduate Catalog	9
Undergraduates Enrolling in Graduate Courses	28
University of West Florida Catalog	3
University Responsibilities	20
University Vision, Mission, and Values	5
Upper Division Status	21

V

Veterans' Benefits	54
Voter Registration	66

W

Withdrawal	30
------------------	----

Y

Yellow Ribbon (Military and Veterans' Information)	54
--	----