About the University of Arkansas – Fort Smith

Founded in 1928 as Fort Smith Junior College, UAFS is the sixth largest university in Arkansas, and one of the 11 campuses in the University of Arkansas System. UAFS serves more than 20,000 people annually in credit and noncredit programs. More than half of UAFS students receive financial assistance from scholarships, grants, loans, and student employment.

Education at UAFS

The seven colleges of UAFS provide the opportunity for students to earn baccalaureate and associate degrees, technical certificates, and certificates of proficiency. The faculty, staff, and students of UAFS collaborate to create a dynamic learning environment. The faculty balances first-rate classroom instruction with practical teaching and hands-on training so students will be prepared for success in their chosen field or pursuit of an advanced degree. Students have the opportunity to enhance their education by participation in a variety of internships and international travel opportunities.

Location

A city rich in history, Fort Smith has a population of over 85,000 within the city limits and almost 300,000 in the metropolitan statistical area. Situated in the Arkansas River Valley between the Ozark and Ouachita mountains, the state’s second largest city features a robust economy and a vast array of cultural activities, including a symphony and the acclaimed Fort Smith Little Theatre, as well as a thriving downtown restaurant/music district. Outdoor enthusiasts will find the area’s lakes, streams, and mountains to be adventures only minutes away from campus.

Campus and Facilities

UAFS’s beautiful campus features over 20 major buildings and the Donald W. Reynolds Campus Plaza, Tower, and Campus Green. The Stubblefield Center is a premier 3,100-seat venue for concerts, athletics, and feature events. The Smith-Pendergraft Campus Center houses all student services offices, a campus store, lounge areas, and a food court featuring Chick-fil-A, Pizza Hut®, Starbucks®, and Subway®. The Pendergraft Health Sciences Center provides students the opportunity to acquire knowledge through state-of-the-art simulation, featuring an operating dental hygiene clinic, as well as nursing, surgical technology, sonography, radiography, and EMT labs. The Baldor Technology Center is designed to accommodate more than 1,000 students daily with quality educational and technological programs. When complete, the Learning and Research Center at Boreham Library will double the size of the library and will feature 214 computer stations and a 24-hour computer lab and study area.

Student and Campus Life

UAFS provides students with a wealth of opportunities for academic, cultural, and social activities in an atmosphere that focuses on real life. With over 50 organizations on campus and many traditions such as the Island Party and Battle of the Bands, there is always something to do at UAFS. The Season of Entertainment features national tours of Broadway musicals, top entertainers, and performances by the University’s Department of Music. The UAFS athletic teams are members of the NCAA Division II and compete in baseball, women’s volleyball, men’s and women’s cross country, men’s and women’s golf, men’s and women’s tennis, and men’s and women’s basketball. Located on campus, Sebastian Commons apartments are fully furnished and feature private bedrooms, full kitchens, and a limited-access gate. Students who live in the Lions’ Den residence hall enjoy a variety of suite-style room options, including loftable furniture, internet access, community lounges, and an on-site dining facility.
You hold in your hands an important key to success.

This catalog will help you unlock the doors of your future and prepare you for success in work and in life. The University of Arkansas - Fort Smith is a place of fresh ideas. We’ve designed our courses not only to provide the knowledge you’ll need to accomplish your career goals, but also to challenge you to think both critically and creatively. The programs outlined within these pages reflect the very best of the University: our dedication to scholarship, our respect for tradition, and our insistence on excellence.

At UAFS, the faculty members’ commitment to research and technology is matched only by their enthusiasm for fostering a positive and enlightened learning environment. No course at UAFS is taught by a graduate assistant; our faculty are dedicated to balancing classroom instruction with practical and hands-on education that can be immediately applied upon graduation.

UAFS continues to enjoy a cooperative and productive relationship with regional communities, ensuring that our students have the opportunity to apply their education through internships and other civic and business activities. Further, our rich diversity makes the University uniquely equipped to respond to the needs of students from all walks of life, not only academically, but culturally as well.

Welcome to the University of Arkansas - Fort Smith.

Sincerely,

Paul B. Beran, Ph.D.
Chancellor
SUMMER TERM I - 2012
Classes Begin ..................................................................................................................................... (T) May 29
Last Day of Term ................................................................................................................................. (R) June 28

SUMMER TERM II - 2012
Classes Begin ....................................................................................................................................... (M) July 2
Last Day of Term ............................................................................................................................... (R) August 2

FALL SEMESTER - 2012
New Student Convocation ............................................................................................................ (U) August 19
Classes Begin ................................................................................................................................ (M) August 20
Holiday (Labor Day) ...................................................................................................................... (M) September 3
Fall Break ........................................................................................................................................ (W-U) November 21-25
Last Day of Classes ........................................................................................................................... (S) December 1
Final Exam Week ............................................................................................................................. (M-S) December 3-8
Commencement ................................................................................................................................. (T) December 11

SPRING SEMESTER - 2013
Classes Begin .................................................................................................................................... (M) January 14
Holiday (Martin Luther King Jr.) ...................................................................................................... (M) January 21
Spring Break .................................................................................................................................. (M-U) March 18-24
Faculty Appreciation Ceremony/Undergraduate Research Symposium ........................................ (R) April 18
Last Day of Classes ............................................................................................................................. (F) May 3
Final Exam Week ............................................................................................................................... (S-F) May 4-10
Commencement ................................................................................................................................. (S) May 11

DOMESTIC AND INTERNATIONAL MAYMESTER - 2013
Classes Begin ...................................................................................................................................... (M) May 13
Last Day of Term ............................................................................................................................... (F) May 31

SUMMER TERM I - 2013
Classes Begin ...................................................................................................................................... (M) June 3
Last Day of Term ................................................................................................................................ (W) July 3

SUMMER TERM II - 2013
Classes Begin ...................................................................................................................................... (M) July 8
Last Day of Term ............................................................................................................................... (W) August 7
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## STUDENT RESPONSIBILITY

Students enrolled at UAFS are expected to study this catalog carefully to become familiar with all policies, procedures, and regulations. Knowledge of the information contained in the catalog is the responsibility of each student.

The provisions of this catalog are subject to change and should be considered for informational purposes rather than an irrevocable contract between the University and the student.

University of Arkansas - Fort Smith  
5210 Grand Avenue, P.O. Box 3649, Fort Smith, AR 72913-3649  
www.uafs.edu
PHONE DIRECTORY
Area code 479 unless otherwise indicated

UNIVERSITY SWITCHBOARD. ................. 788-7000

ADMISSIONS
Admissions and School Relations
Smith-Pendergraft Campus Center 219 .......... 788-7120
Toll-Free for
Admissions Information ..................... 888-512-5466

ATHLETIC EVENTS - GAMES, TICKETS, INFORMATION
Athletic Department
Stubblefield Center 148 ....................... 788-7590

BOOKSTORE
Smith-Pendergraft Campus Center 145 .......... 788-7320

BOX OFFICE
Smith-Pendergraft Campus Center 103 .......... 788-7300

CAMPUS AND COMMUNITY EVENTS
Smith-Pendergraft Campus Center 103 .......... 788-7300

CAMPUS RECREATION AND WELLNESS
Fitness Center ............................... 788-7600
Intramural Sports .............................. 788-7222
Sport Clubs .................................. 788-7222
Outdoor Adventure ......................... 788-7596

CAMPUS TOURS AND VISITS
Admissions and School Relations
Smith-Pendergraft Campus Center 219 .......... 788-7120

CAREER SERVICES
Smith-Pendergraft Campus Center 232 .......... 788-7017

CENTER FOR BUSINESS AND
PROFESSIONAL DEVELOPMENT
Flanders 204 .................................. 788-7799

CENTER FOR LIFELONG LEARNING
Kinkead Annex 112 ............................ 788-7212

COMPUTER AND WEB CLASSES/
DISTANCE LEARNING SUPPORT
Technology Support (Help Desk)
Gardner 101 ................................... 788-7460

COUNSELING CENTER
Pendergraft Health Sciences Center 312 .......... 788-7398

DEANS’ OFFICES
College of Applied Science and Technology
Baldor 219 .................................... 788-7783
College of Business
Business and Industrial Institute 103 .......... 788-7800
College of Education
Math-Science 111 .............................. 788-7908
College of Health Sciences
Pendergraft Health Sciences Center 112 ........ 788-7840
College of Humanities and Social Sciences
Vines 101 ...................................... 788-7430
College of Languages and Communication
Vines 225 ...................................... 788-7290
College of Science, Technology, Engineering & Mathematics
Math-Science 114 .............................. 788-7610
College of Student Success
Vines 128 ...................................... 788-7660
Enrollment Management
Smith-Pendergraft Campus Center 201 .......... 788-7160

DENTAL HYGIENE CLINIC
Pendergraft Health Sciences Center 137 .......... 788-7270

FEE PAYMENTS
Cashier
Smith-Pendergraft Campus Center 202 .......... 788-7060

FINANCE OFFICE
Business Center 109 ........................... 788-7058

FINANCIAL AID
Financial Aid Office
Smith-Pendergraft Campus Center 215 .......... 788-7090

GORDON KELLEY ACADEMIC SUCCESS CENTER
Vines 202 ..................................... 788-7675

GREEK LIFE
Smith-Pendergraft Campus Center 110 .......... 788-7694
HOUSING AND RESIDENTIAL LIFE
Housing Office ........................................ 788-7340
The Lion’s Den Residence Hall ...................... 788-7347
Sebastian Commons Apartments .................... 783-7340

INTERNATIONAL STUDENTS
Admissions and School Relations
Smith-Pendergraft Campus Center 219 ............ 788-7120

INTRAMURAL SPORTS
51st Annex 206 ........................................ 788-7222

LIBRARY
Boreham Library ........................................ 788-7200

NEW STUDENT ORIENTATION
Admissions and School Relations
Smith-Pendergraft Campus Center 219 ............ 788-7120

OFFICE OF NON-TRADITIONAL STUDENT SUPPORT
Smith-Pendergraft Campus Center 111A ............ 788-7319

POWELL STUDENT HEALTH CLINIC
Pendergraft Health Science Center 258 ............ 788-7444

RECORDS OFFICE / REGISTRAR
Records Office
Smith-Pendergraft Campus Center 222 ............ 788-7230

REGISTRATION
Admissions and School Relations
Smith-Pendergraft Campus Center 219 ............ 788-7120

SCHOLARSHIPS
Financial Aid Office
Smith-Pendergraft Campus Center 212 ............ 788-7988

STUDENT ADVISEMENT AND CAREER PLANNING
Smith-Pendergraft Campus Center 232 ............ 788-7400

STUDENT ACTIVITIES OFFICE
Smith-Pendergraft Campus Center 115 ............ 788-7663

STUDENT ADA SERVICES
Vines 210 .............................................. 788-7577

STUDENT ADVISEMENT AND CAREER PLANNING
Smith-Pendergraft Campus Center 219 ............ 788-7400

STUDENT AFFAIRS
Smith-Pendergraft Campus Center 201A ............ 788-7310

STUDENT SUPPORT SERVICES
Boreham Library 207 ................................ 788-7355

TESTING (COMPASS, MAKE-UP TESTING, CLEP, ETC.)
Testing Center
Smith-Pendergraft Campus Center 205 ............ 788-7682

TRANSCRIPTS, ACADEMIC RECORDS
Records Office
Smith-Pendergraft Campus Center 222 ............ 788-7230

UNIVERSITY POLICE DEPARTMENT
51st Annex 231 ........................................ 788-7140
(Non-Emergency 24 hr. #) 788-7141

UPWARD BOUND
Classic
Vines 153 .............................................. 788-7119
Math/Science
Vines 153 .............................................. 788-7103

VETERANS AFFAIRS
Financial Aid Office
Smith-Pendergraft Campus Center 215 ............ 788-7954

WATC (WESTERN ARKANSAS TECHNICAL CENTER)
Baldor 111 ............................................ 788-7720

WORK-STUDY
Financial Aid Office
Smith-Pendergraft Campus Center 214 ............ 788-7958

UNIVERSITY OF ARKANSAS - FORT SMITH
5210 GRAND AVENUE
P.O. BOX 3649
FORT SMITH, AR 72913-3649
INFORMATION@UAFS.EDU
The UAFS Vision, Mission, Role, Scope, and Values

VISION
UAFS will be a premier regional university, connecting education with careers.

MISSION
UAFS prepares students to succeed in an ever-changing global world while advancing economic development and quality of place.

ROLE AND SCOPE
Founded in 1928, UAFS has grown in stature, role, and scope over the years into a singularly distinctive, hybrid institution. Organized and focused on teaching and learning, UAFS offers multifaceted academic and technical educational opportunities. The University provides these learning opportunities at times and places convenient to students and clients. Programs include single courses of instruction, certificates of proficiency, technical certificates, and associate and baccalaureate degrees designed to meet a demonstrated demand of the region. Additional upper-division and graduate programs of study leading to select baccalaureate and master’s degrees are offered on campus by other universities through the UAFS University Center.

In addition to certificate and degree programs, UAFS provides a wide range of customized, on-site education and training services – both pre- and post-employment – designed to meet the workforce education and retraining needs of business and service organizations.

UAFS provides a variety of public service activities for the people and organizations within its service area. Included are noncredit courses, seminars, workshops, lectures, travel, telecourses, and teleconferences organized by the University’s Center for Business and Professional Development. UAFS makes campus facilities and resources available to community organizations and enriches the quality of life of the community through sponsored cultural activities and events.

STUDENT LEARNING VISION
The student learning vision for the UAFS will provide the following:

- Graduates who possess and can demonstrate the general education competencies and the learning outcomes for their academic programs.
- An academic community that is passionate about student learning and knowledgeable about the processes that are in place to ensure learning outcomes.
- Faculty who examine and persistently discuss which styles, strategies, experiences, and tasks are best for improving learning in a diversity of students.
- Students who share the responsibility for and demand active engagement in their own learning from the moment they step onto the UAFS campus.
- Real connections between classroom learning and the workplace that result in program-specific, real-world experiences that effectively prepare students for the world beyond academics.
• Graduates who embrace change, welcome diversity, and are enthusiastically engaged in lifelong learning and who have the ability and desire to transfer those skills to the workplace and community.
• High-quality programs with national reputations that draw students from all over the United States.
• Faculty, staff, and students who are equal, active partners involved in the learning process and who share responsibility in achieving student competency.

VALUES
UAFS holds a set of core values based on the belief that we can and should be the best of learning organizations by centering our focus and efforts on the learner and by practicing and modeling integrity and ethical behavior, responsibility for results, service to our fellow citizens and the communities we serve, and cooperation and collaboration with others in the betterment of the world in which we live.

EQUAL OPPORTUNITY/AFFIRMATIVE ACTION STATEMENT
UAFS provides equal employment, admission, and educational opportunities without regard to race, color, gender, religion, age, or learning or physical disability. UAFS does not discriminate on the basis of disability in admission, access to, treatment, or employment in its programs and activities.

It is the policy of UAFS that no student or staff member may sexually harass another. Any employee or student will be subject to disciplinary action for violation of this policy.

The director of Human Resources is responsible for the University’s compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and Title VII of the Civil Rights Act of 1964.

TITLE IX
Title IX, part of the Education Amendments of 1972, is a federal law that prohibits sex discrimination in education. The Vice Chancellor for Student Affairs has primary responsibility for compliance with Title IX. Sex discrimination includes behaviors such as sexual harassment and sexual assault, and these can occur in many contexts. Any concerns, questions or incidents regarding Title IX should be directed to the Vice Chancellor for Student Affairs, Dr. Lee Krehbiel, at 479-788-7310 or the Human Resources Director, Bev McClendon, at 479-788-7083. The complete Title IX policy is published in the Student Handbook. UAFS will strive to respond to complaints in a manner that maintains or restores a safe and productive learning environment, while looking into the complaint in a prompt, thorough, and impartial fashion.

DIVERSITY
UAFS recognizes that diversity within the student body, the faculty and staff, and in the educational experience enriches learning and education. Our strong commitment to diversity will help shape the future of the institution and create a learning environment that welcomes all. Students, faculty, and staff are encouraged to bring with them distinct perspectives that encourage thoughtful discussion and collegial deliberation.

ASSESSMENT OF STUDENT LEARNING
UAFS has clear expectations for student learning and is committed to continual assessment as the means to improving learning outcomes. Every academic program specifies educational objectives with outcomes that are measured to determine ways in which learning will be improved. Findings based on assessment objectives are used in curriculum improvement, planning, and resource allocation. A faculty-led, student-learning committee coordinates assessment activities of the entire campus for the purpose of continuous improvement in learning. See www.uafs.edu/learning for further information.

GENERAL EDUCATION
UAFS’s goal for students is independent lifelong learning. The development and demonstration of specific abilities in disciplinary and interdisciplinary contexts are means to that end. A strong and viable general education program is central to the University’s mission. Each degree requires demonstrated proficiency by students, and the level of proficiency gained is continually assessed in order to improve student learning.

UNIVERSITY PROGRAMS
UAFS provides bachelor’s degrees, an associate of arts degree, an associate of general studies degree, associate of applied science degrees, technical
certificates, and certificates of proficiency. UAFS also provides technical and managerial training, courses essential to effective job performance, and enables adults to pursue courses needed to increase current skill levels.

**COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY**

By utilizing a dynamic, hands-on approach to instruction, the College of Applied Science & Technology seeks to create educational opportunities for students that will have a positive impact on their potential for employment and economic well being. Students are taught by practitioners that not only have the educational experience but also possess the business and industry experience needed to prepare students for the challenges of the workplace. Through the College of Applied Science and Technology, students may complete a baccalaureate degree, an associate of applied science degree, technical certificate, or certificate of proficiency. Through the Center for Business and Professional Development, the College offers courses and programs of limited duration, which provide for the retraining and upgrading of skills for those already employed.

**COLLEGE OF BUSINESS**

The College of Business strives to be increasingly recognized by our stakeholders for developing entrepreneurial leadership in our students through integrated, practice-grounded programs. We prepare our students to succeed in a changing and global workplace through an integrated, practice-oriented curriculum that cultivates entrepreneurial skills and attitudes. Our approach rests upon a foundation of proven competencies in business, leadership, and communications. Our scholarly activity focuses on instruction and application, and we are committed to service and regional economic development. Through the College of Business, students can complete the bachelor of business administration degree with majors in accounting, business administration, or marketing by meeting the prescribed degree requirements.

**COLLEGE OF EDUCATION**

The College of Education is committed to excellence in teacher preparation through both classroom instruction and field-service experiences. Designed to serve school districts and other educational agencies in Western Arkansas and Eastern Oklahoma, the College works closely with partner school districts to offer challenging and relevant educational experiences that prepare graduates to be capable teachers anywhere in this nation.

Students in the program encounter caring faculty with considerable public school experience. The program emphasizes the importance of technology, national standards, diversity, accountability, teamwork, core knowledge, and continuous learning. Students majoring in secondary education complete degrees in the college of discipline with the teacher licensure portion offered in the College of Education. Bachelor-level degrees in middle-level education and early childhood education, and an associate of applied science degree in education are completed in the College of Education.

**COLLEGE OF HEALTH SCIENCES**

The College of Health Sciences offers outstanding educational programs and is dedicated to preparing graduates to be leaders within their health fields. Through a learning-centered approach to instruction, the College offers programs that integrate theory, innovative practice, and technology in classroom, laboratory, and clinical settings. All degree programs provide a foundation in general education so graduates are informed about current and future trends in healthcare and can respond to challenges in the workplace.

The College of Health Sciences promotes educational opportunities for career advancement, employment mobility, and lifelong learning. Through the College of Health Sciences, students can complete a baccalaureate degree in nursing or imaging sciences with a track in ultrasound and/or management. Associate of applied science degree programs are available in dental hygiene, nursing, radiography, and surgical technology. A certificate program is available in practical nursing.

**COLLEGE OF HUMANITIES AND SOCIAL SCIENCES**

The College of Humanities and Social Sciences offers a comprehensive education in the liberal arts with specialized training in a variety of disciplines. Degree programs are designed to help students integrate, synthesize, and apply knowledge in real-life situations and to provide opportunities to develop leadership skills. Students may augment
their education by selecting a minor area of study from within the College or from other colleges in the University. Through mastery of a primary discipline, students acquire a broad understanding of the world in which they live.

**COLLEGE OF LANGUAGES AND COMMUNICATION**

The College of Languages and Communication is dedicated to the ideals of effective communication through the study of language, literature, speech, rhetoric, and writing. By emphasizing critical thinking and problem-solving skills, students obtaining a degree from the College of Languages and Communication will develop a broad understanding of the world in which they live and will demonstrate effective interpersonal, interpretive, and presentational communication skills. Students in the College of Languages and Communication can complete a bachelor of arts degree or a bachelor of science degree with teacher licensure by meeting the prescribed degree requirements.

**COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS**

The College of Science, Technology, Engineering & Mathematics (STEM) houses the disciplines that study natural and mathematical phenomena and their applications. Students gain knowledge and skills within each of these fields, becoming informed citizens that can effectively serve society as teachers, researchers, and inventors. New horizons are explored and explained through critical thought, investigative proficiency, and effective communication in the ethical pursuit of knowledge.

A bachelor of science degree can be earned in biology, chemistry, information technology, and mathematics. Engineering programs offered in coordination with the University of Arkansas, Fayetteville include mechanical and electrical engineering. Baccalaureate degrees with secondary education teacher licensure can be earned in biology, chemistry, or mathematics.

**WESTERN ARKANSAS TECHNICAL CENTER**

The Western Arkansas Technical Center (WATC) is an area secondary center that provides high school juniors and seniors from six counties in western Arkansas with the unique opportunity to earn university credit while still in high school. The curriculum serves as an extension of the high school and provides students with hands-on experiences in a variety of programs. WATC has three goals: 1) to aid students in making a more informed career choice, 2) to prepare students to enter the workforce upon high school graduation, and 3) to encourage students to continue their education after high school. Students can earn up to forty college credits and are able to apply these to meaningful exit points at the certificate, associate, and baccalaureate degree levels.

**THE CENTER FOR LIFELONG LEARNING**

The Center for Lifelong Learning supports the University mission by providing adult and non-credit learning opportunities. The Center provides personal enrichment, as well as professional development learning opportunities for community members of all ages. Learning is viewed as a lifelong process and the Center is dedicated to building a learning community one individual at a time. For more information, visit [www.uafs.edu/lifelonglearning](http://www.uafs.edu/lifelonglearning).

**THE UNIVERSITY CENTER AT UAFS**

UAFS, in partnership with other universities, offers additional baccalaureate programs through the University Center. Students may complete the freshman and sophomore courses through UAFS and the junior and senior courses from universities invited to provide specific bachelor’s degrees not currently offered by UAFS. Classes are held on the UAFS campus.

Currently, three bachelor’s degrees are available through the University Center.

Degree programs offered through the University of Arkansas, Fayetteville:
- Bachelor of Science in Education with a Human Resource Development Concentration
- Bachelor of Science in Electrical Engineering
- Bachelor of Science in Mechanical Engineering

**ACADEMY OF THE ARTS**

The UAFS Academy of the Arts is the premier center for the visual and performing arts for children and youth. After school programs are available in the areas of choir, theatre, art, and preschool Musikgarten, along with private music instruction for children and adults of all ages and skill levels. Summer camps offer activities in music, theatre, dance, and art. Students have the unique opportunity of working with a distinguished faculty
of highly trained artists. For more information, visit www.uafs.edu/academy.

HISTORICAL DEVELOPMENT OF THE INSTITUTION

UAFS has evolved from a small college primarily interested in serving local students to a comprehensive regional university that provides a broad range of degree programs and services.

UAFS was first established as Fort Smith Junior College in 1928 as an extension of the local public school system. The University operated within the public school system until 1950, when it was incorporated as a private, nonprofit educational institution. In 1952 the University moved to the old County Farm site at Grand Avenue and Waldron Road. Two brick buildings were converted into classrooms and offices, and the semester began with 108 students and ten instructors.

The University began developing a comprehensive community college program—a new concept in education in the area and the state. Local industrialists became interested and, with their economic aid and professional assistance, a vocational-technical division was established to provide local industries with trained personnel.

The example set by the University resulted in the beginning of a statewide system of community and technical colleges. The Arkansas Constitution was amended and the General Assembly authorized the creation of community junior college districts. An enabling act was passed early in 1965, permitting the citizens in these areas to create such districts by popular referendum. In a special election, the electorate approved the creation of the Sebastian County Community Junior College District. In 1966 the Board approved the name change from Fort Smith Junior College to Westark Junior College.

In 1972 the Board of Trustees passed a resolution changing the name to Westark Community College. The College was fully accredited by the North Central Association of Colleges and Secondary Schools in 1973, and in 1998 the name was changed to Westark College to more accurately portray the evolving mission, role, and scope of the rapidly growing College.

In 2002 Westark College became the University of Arkansas - Fort Smith, expanded its curriculum, and now includes seven divisions of postsecondary education: College of Applied Science and Technology, College of Business, College of Education, College of Health Sciences, College of Humanities and Social Sciences, College of Languages and Communication and the College of Science, Technology, Engineering & Mathematics. The Center for Business and Professional Development, specializing in professional business training, the Center for Lifelong Learning, and the University Center partnership program offer additional educational opportunities.

ACCREDITATIONS

UAFS is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. The University is approved by the United States Department of Education, the United States Department of Health and Human Services, and the Arkansas State Approving Agency for veterans’ training. College of Applied Science and Technology programs are accredited by the Association of Technology, Management and Applied Engineering (ATMAE). The automotive program is certified by the National Automotive Technicians Education Foundation (NATEF). The legal assistance/paralegal program is approved by the American Bar Association. College of Education programs are accredited by the National Council for the Accreditation of Teacher Education (NCATE). Nursing programs at the University are approved by the Arkansas State Board of Nursing. The traditional BSN and RN-BSN online completion program and the associate degree nursing program are accredited by the National League for Nursing Accrediting Commission. The surgical technology program is accredited by the Accreditation Review Council on Education in Surgical Technology and Surgical Assisting through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The dental hygiene program is accredited by the American Dental Association’s Commission on Dental Accreditation (CODA). The radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT) and the diagnostic medical sonography program is accredited by the Joint Review Committee of Diagnostic Medical Sonography (JRCDMS) through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The UAFS Music Department is an accredited institutional member of the National Association of Schools of Music (NASM).
UAFS Admission Policy

The admission process at UAFS seeks to identify prospective students who will be successful in collegiate academic programs. UAFS welcomes all inquiries regarding admission requirements and the application process. The Admissions and School Relations Office assists all prospective students with the process by providing information on admission requirements, placement testing, financial aid, scholarships, and degree programs.

The typical student population seeking admission to a university presents a wide range of aspirations, levels of motivation, and capabilities. Each student's educational goal, previous academic experience, and placement test scores will be evaluated and will serve as the basis for development of an individual educational plan. Some students seeking admission will be unprepared in certain subject areas and will require student success courses prior to attempting college-level work.

Based on the educational philosophy stated above, the following policy statements guide UAFS's admission procedures:

1. Students admitted must demonstrate satisfactory progress and the capability and capacity to complete college-level work.
2. No person shall ever be denied admission based on race, color, religion, gender, age, or otherwise qualified students with a disability.
3. Admission may be denied in those cases when a thorough evaluation process determines that a prospective student cannot achieve satisfactory work in college or student success courses.
4. Admission to the University does not guarantee admission to a particular degree or certificate program.

Admissions Requirements and Procedures

Required admission documents are kept for one full year. If the student does not enroll after one year, all documents are purged.

FIRST-TIME ENTERING STUDENTS

Students enrolling in the University for the first time may qualify for admission with appropriate test scores and by one of the following methods:

1. Graduation from high school or
2. Satisfactory completion of the General Education Development (GED) test.

Beginning freshmen must submit the following information to the Admissions and School Relations Office prior to registration:

1. A completed Application for Admission.
2. An official transcript of high school grades, credits, and date of graduation, or GED scores. An official college transcript is required for all college courses completed while attending high school.
3. Proof of immunization against measles, mumps, and rubella. Immunity can be shown by providing a serological test confirming immunity or having received two doses of measles, two doses of rubella, and two doses of mumps vaccine.
4. Official ACT or SAT student profile report or COMPASS evaluation scores. ACT, SAT, or COMPASS placement scores may be used for admissions if testing was completed in the four years prior to admission application. A student who scores less than 19 in an area
of the ACT or related SAT score, must undergo further testing using COMPASS which is available at the University. All students entering UAFS begin with Admissions. Additionally, Colleges may have specific admission requirements.

**NEW STUDENT ORIENTATION (NSO)**
All first-time entering University students (and transfer and readmitted students with fewer than 13 credit hours) are required to attend a New Student Orientation. This program gives students the opportunity to register for classes and learn about the policies and procedures of the University and the registration process. These programs are scheduled throughout the registration periods. Students may register online at the Admissions webpage or call 788-7120. Students may also register at the Admissions Office on the second floor of the Smith-Pendergraft Campus Center.

**UNCONDITIONAL AND CONDITIONAL ENROLLMENT**
Students must score an ACT composite of 19 or above in all areas of the ACT or related testing to be admitted unconditionally to the University. Conditional admission requires demonstration of satisfactory progress for continued enrollment.

Students who graduated from high school or received a GED after May 1, 2002, will be evaluated for conditional/unconditional admission pursuant to Act 1290 of 1997, as amended by Act 520 of 1999 by the General Assembly of the State of Arkansas. The law requires that public school students must have successfully completed the college core curriculum with a 2.00 (on a 4.00 scale) GPA for unconditional admission to UAFS.

The college core curriculum from high school consists of:

1. Units of English with emphasis on writing skills, not to include courses in oral communication, journalism, drama, or debate.
2. Units of natural science with laboratories, chosen from physical science, biology, chemistry, or physics. Only one unit may come from a life science.
3. Units of math, including algebra I, algebra II, geometry, and a higher-level math course.
4. Units of social studies, including one of American history, one of world history, and at least one-half unit of civics or American government.

Act 1290 also requires any private school, home school, or GED student who graduates after May 1, 2002, to have achieved a composite score of 19 on the ACT or the equivalent score on the SAT or COMPASS for unconditional admission to UAFS.

Students who have not completed the requirements for Act 1290 and who are conditionally admitted to UAFS will be required to complete any necessary student success courses along with 12 hours from the specified degree plans with a 2.00 (on a 4.00 scale) GPA within the first 30 hours. Once this requirement has been met, the student’s status will change to “unconditional.”

**TRANSFER STUDENTS**
Students who have previously attended other accredited colleges and universities may qualify for admission by submitting the following documents to the Admissions and School Relations Office:

1. A completed Application for Admission. Falsifying any part of the Application for Admission and/or failing to report previous college work can prevent a student from receiving federal financial aid and/or being admitted to the University.
2. Proof of immunization against measles, mumps, and rubella. Immunity can be shown by providing a serological test confirming immunity or having received two doses of measles, two doses of rubella, and two doses of mumps vaccine.
3. ACT, SAT, or COMPASS scores or previous college coursework demonstrating acceptable reading, English, and math placement must be submitted by degree-seeking students. Additional testing requirements will be determined during the admission process.
4. Transcripts:
   a. Students seeking a degree from UAFS must provide official transcripts from all colleges/universities attended (submitted to the Records Office in an official, sealed, school envelope). Students should be prepared to submit course descriptions for coursework more than 15 years old. Official transcripts must be received two weeks prior to the beginning of the term.
in which the student wishes to enroll. Once submitted, students should allow 10 business days for transcripts to be evaluated. Students may not register for courses until official transcripts have been received and evaluated. Any exception to this policy must be approved by the Registrar or designee. In those instances when an exception is approved, a Transcript Waiver Form must be completed and a hold will be placed on a student’s account that prevents future enrollment and the release of official transcripts if all official transcripts are not received by June 1 (fall semester), February 1 (spring semester) or Friday of the first week of each summer term. Students advised with an in-progress pre or corequisite must submit documentation of the final grade to the Records Office by the Friday of the first week of the semester. A hold will be placed on a student’s account that prevents enrollment and the release of official transcripts if the above deadline(s) is not met.

b. Transient students (i.e., students actively enrolled in another institution who wish to enroll at UAFS for one semester) and transfer students not seeking a degree must provide an official or unofficial transcript from the last school attended and any transcripts/documentation demonstrating completion of required pre or corequisites. Students advised with an in-progress pre or corequisite must show documentation of the final grade to the Records Office by the Friday of the first week of the semester, or a hold will be placed on the student’s account that prevents future enrollment and the release of official transcripts. Transient students who are enrolled and plan to enroll for the next consecutive term must meet requirements of a transfer student seeking a degree from UAFS and provide official transcripts.

c. International college and university transcripts must be evaluated by an academic credential evaluation service before courses can be articulated as transfer work. UAFS recommends World Education Services. Please visit their website at www.wes.org for more information. Students should be prepared to submit course syllabi and course descriptions as they will be required for transfer work to be articulated.

Students must have a 2.00 (on a 4.00 scale) cumulative GPA on all previous coursework to be eligible for admission to UAFS. Transfer students academically suspended from their last institution will not be allowed to enroll at UAFS until they are eligible for re-enrollment at that institution.

Students must be in good financial and disciplinary standing. Any transfer student who has been dismissed from a program for reasons other than failure to maintain satisfactory academic progress is not eligible for admission to the University for a period of five years from the date of dismissal. After five years, admission may be considered.

Transfer students admitted to UAFS in good academic standing are subject to the same minimum academic standard requirements as continuing students. Transfer students admitted to UAFS on academic probation must earn a 2.0 GPA in the probation semester to continue enrollment at UAFS.

ACCEPTANCE OF TRANSFER CREDITS

The amount of credit granted for transfer courses depends upon the nature and quality of the applicant’s previous work, evaluated according to the academic requirements for the University and the following provisions:

1. Transfer credit will be officially evaluated after a completed Application for Admission and final official transcripts have been received. Official transcripts must include complete records of the courses taken and must be submitted to the Records Office. Institutions must be accredited by an appropriate regional accrediting agency in order to receive credit.

2. Transfer credit will be evaluated according to Arkansas Course Transfer System (ACTS). ACTS contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and the equitable treatment in the application of credits for the admissions and degree requirements. Course transferability is not guaranteed for courses listed in ACTS as “No Comparable Course.” Additionally, courses with a “D” frequently do not transfer and institutional policies may vary. ACTS may be accessed on the Internet by going to the ADHE website and selecting Course Transfer.
3. Transfer credits are subject to a two-stage evaluation process. First, the Records Office will complete an initial evaluation of the transfer credit for the institution. Credits found to be eligible for general transfer may not always apply to a specific degree program. Second, the College responsible for the program of study will evaluate the transfer credits that will satisfy degree program requirements.

4. Grades earned at other institutions are not calculated in the student’s grade point average earned at the University. Colleges within the University may review grades for admission into specific programs.

5. When a course is taken at another institution and is repeated, whether at the other institution or UAFS, the most recent grade is included for graduation purposes. In either case, the grade received at this institution is included in the student’s GPA.

6. Transfer credit is awarded for courses in which a grade of “C” or higher has been earned. However, six (6) hours in which a grade of “D” has been earned may be considered for transfer under the following circumstances: a student must appeal for an exception to the policy in writing to the Provost prior to the first term. A grade of “D” will not be accepted for any required general education course and many majors will not accept a grade of “D” for any coursework. A grade of “D” may be used for an elective course if the exception is granted. Credit will not be granted for remedial coursework.

7. The State Minimum Core Act 98 of 1989 requires each institution of higher learning in Arkansas to identify a minimum core of general education courses that shall be fully transferable between state-supported institutions. The required 35 hours of credit will transfer and apply toward the degree. In addition to this minimum core, UAFS has adopted an additional nine hours of general education bachelor’s core course requirements.

8. The maximum number of hours transferable to a bachelor degree is 68 semester hours of lower-level (1000-2000) coursework. The only exception to this is the Bachelor of Applied Science (BAS) degree, to which 80 hours of lower-level coursework may transfer. The number of upper-division transferable coursework will vary by College and program.

9. Transfer credit is posted at the level at which it is earned.

10. The Roger Phillips Transfer Policy Act of 2009 provides for the seamless transfer of lower level credits for those students who have completed an associate of arts (AA), associate of arts in teaching (AAT) or associate of science (AS) at an Arkansas public institution of higher education and transfers to a baccalaureate degree program at a four-year institution. Accordingly, UAFS will accept into junior status any student who has completed an AA, AAT or AS. Additional lower-level general education courses cannot be required for a transfer student with a completed AA, AS or AT, unless the course(s) meets one of the following exceptions:
   • The course(s) is required of the student’s major.
   • The course(s) is a prerequisite for a course that is required of the student’s major.
   • The course(s) is required by an accrediting and/or licensure body.
   • The student earned a grade of “D” or “F” in the transfer course.

READMITTED STUDENTS

Students who have previously attended UAFS at any time are considered readmitted students. Students returning after a full academic year in absence must submit the following documents:

1. A completed Application for Admission. Falsifying any part of the Application for Admission and/or failing to report previous college work can prevent a student from receiving federal financial aid and/or being admitted to the University.

2. Proof of immunization against measles, rubella, and mumps. Immunity can be shown by providing a serological test confirming immunity or having received two doses of measles, two doses of rubella, and two doses of mumps vaccine. The records of students who have not attended the University for 5 years have been purged and new immunization records are required.

3. Official transcripts from all colleges/universities attended (sent directly to the Records Office or submitted in an official, sealed school envelope). The records of students who have not attended the University for 5 years have been purged and new transcripts are required. See additional information under transfer students.
CONCURRENT/DUAL ENROLLMENT OF HIGH SCHOOL STUDENTS

In accordance with Act 1097 of 1991, a student enrolled in a secondary school or who is home schooled, may enroll at UAFS if he or she has successfully completed the eighth grade and demonstrates an ability to benefit from college-level coursework. Interested students must submit the following documents:

Requirements
1. A completed Application for Admission.
2. A current high school transcript.
3. A participation agreement form, submitted each term, signed by the student, his or her parents, and the school principal (or designee), stating that the student has approval to enroll. Students enrolling for summer terms do not have to obtain permission of the high school designee to take courses.
4. ACT, SAT, or COMPASS scores indicating placement into college-level courses. Policies and guidelines for the concurrent/dual admission program are available from the Admissions and School Relations Office. Students must meet the requirements stated in the policies.

Conditions
1. Students may not enroll in student success courses.
2. Students will not be eligible to participate in institutionally or federally funded financial aid programs.
3. Students attending UAFS under this policy must maintain a 2.00 (on a 4.00 scale) GPA each semester. Students failing to achieve the required GPA will be denied further enrollment until such time as they qualify under first-time entering admission requirements.
4. A high school freshman, sophomore or junior may enroll in a maximum of six semester hours of credit, or two courses, each fall and spring term. However, it is strongly recommended that students take only three hours each term, depending on the high school curriculum.
5. A high school senior may enroll in a maximum of nine semester hours of credit, or three courses, each fall and spring term. However, it is strongly recommended that students take only six hours each term, depending on the high school curriculum.
6. Any student wishing to take more than the maximum allowed must appeal to the dean of enrollment management. The student must provide no less than two letters of recommendation from high school teachers, counselors, or principals, stating why he or she should be allowed to enroll in more hours.
7. Students who withdraw from high school or home school will not be allowed to reenroll in UAFS until they qualify under first-time entering admission requirements.

INTERNATIONAL STUDENTS

An international student is one whose citizenship is in another country and is applying for an I-20 from UAFS to obtain a student (F-1) visa. International student applications, requests for information, and questions should be referred to the Office of International Relations, (479) 788-7977.

Admission requirements include:
1. A completed International Student Application for Admission signed by the applicant.
2. A completed Health Data Form. This form must be signed and stamped by a licensed physician. Proof of immunization against measles, mumps, and rubella is required, including one dose of rubella, two of measles, and one dose of mumps vaccine.
3. Official academic records:
   a. Submit secondary school transcripts indicating graduation. All academic records must be originals or certified copies in a sealed envelope from the institution. Copies must be certified (both signed with the seal/stamp affixed) by a school official. Notarized copies will not be accepted. In addition, an official English translation must be provided.
   b. Submit official transcripts from all previous colleges and universities or a letter stating full-time attendance if the last school was an intensive language institute. All international transcripts must have a course by course evaluation by an academic credential evaluation service before courses will be articulated as transfer work. World Education Services is used for this service.
   c. All prospective students are recommended to submit official SAT or ACT scores. Students may be required to take the COMPASS on campus for additional placement purposes.
4. Complete the Declaration and Confirmation of Financial Resources Form and provide evidence that sufficient funds are available to meet University
costs and personal living expenses. UAFS requires that a student must be prepared to finance his or her stay in the U.S. without help from the University. Each student must provide in English:

* A letter verifying assistance from the party providing the student’s financial support. This letter should state willingness to provide financial assistance for the student’s school and personal living expenses. The total USD amount required to cover these expenses should be stated in the letter.

* Certification from the sponsor’s bank on official bank letterhead stationery signed and stamped by a bank official and other supporting documents regarding the sponsor’s financial position to cover costs for one academic year of attendance. Proof guaranteeing the funds specified in the letter from the bank must accompany the bank’s letter, such as bank statement for checking, savings, certificates of deposit, mutual stock, or bond funds; and/or other accessible funds or account bearing the bank official’s original signature and the banking seal are required.

Note: An international student should not plan to finance his or her educational program by income from employment. An international student is not permitted to work in the US unless permission has been first granted by the United States Immigration and Customs Enforcement.

5. English fluency: This requirement may be waived for citizens of the British Isles, Ireland, Australia, New Zealand and Canada (except Quebec). This fluency may be proved by:

a. A score of 500 on the paper-based, 173 on the computer-based or a 61 on the Internet-based TOEFL (Test of English as a Foreign Language, institution code 6220); or

b. Passing two standard English composition courses at an accredited postsecondary institution in the United States with a “C” or better; or

c. Graduation from an accredited high school in the United States and placement on the reading and writing portion of the COMPASS/ACT exam; or

d. Other means of proving English fluency as determined and approved by the dean of enrollment management.

6. Placement in courses: Students may need to take additional placement exams upon arrival to determine enrollment in appropriate courses. ACT and SAT scores may be used for placement and are valid if the University has received an official copy of the scores.

7. Students are required to obtain medical insurance through UAFS before enrolling in classes.

When all of the admission documents have arrived in the International Student Office at UAFS and, if the student meets the admission requirements, an acceptance letter and Form I-20 (Certificate of Eligibility) will be mailed to the student. The application deadline for the fall semester is June 1 and for the spring semester is November 1. UAFS scholarships and loans are not available to international students.

In order to come to the United States for study, a student must obtain a passport from his or her government and a visa from the U.S. Embassy. There is also a I-901 fee that must be paid. Care must be taken to observe all regulations of the U.S. Citizenship and Immigration Services, including the requirement that the student must be enrolled full time (12 or more credit hours, only three of which may be completed through distance learning).

Please contact the International Student Office if transferring from another U.S. institution.

UNCLASSIFIED PRE- AND POST-BACCALAUREATE STUDENTS

This category is for non-degree seeking students who have previously completed a college degree or for students who are taking limited credit classes for personal enrichment. Students in this category are not eligible for financial aid.

Admission requirements include:

1. A completed Application for Admission.

2. ACT, SAT, or COMPASS scores or previous college coursework demonstrating acceptable reading, mathematics, and English placement.

3. Official or unofficial transcripts documenting completion of required pre- or corequisites.

4. A pre-baccalaureate student may be non-degree seeking for a maximum of 15 hours. At that time the student must begin remedial coursework, if required.

DENIAL OF ADMISSION

If a student is denied admission and feels he or she has additional information to share in the evaluation process, the student may submit an admissions appeal form and a letter to be reviewed by the admissions
appeal committee. The committee will review the merits of the situation and make a determination on whether to grant the admissions appeal.

Any student who has been previously dismissed from a program offered by the University for reasons other than failure to maintain satisfactory academic progress is not eligible for readmission to the University for a period of five years from the date of dismissal. The Records Office must be notified of the dismissal in writing and the dismissal noted in the student's academic record. After five years, readmission may be considered based upon criteria deemed appropriate by the University.

PLACEMENT POLICY

In accordance with Arkansas Code 6-61-110, first-time entering students will be placed into reading, writing, and mathematics courses according to placement scores. The purpose of the placement test is to identify existing skills and knowledge, thereby placing students in courses in which they may reasonably expect to achieve academic success. Other students may be required to test, depending upon specific circumstances, as determined by an advisor.

The primary methods of assessment are the ACT, SAT, or the COMPASS. Students may be required to take additional testing. Test scores must be current (within the past four years). When more than one score is available, the highest score will take precedence. A minimum score must be obtained before a student can be admitted. Students who are admitted but score below placement levels on the various components of the ACT, SAT, or COMPASS will be required to complete student success coursework.

First-time entering students who place into student success reading, writing, or mathematics courses must enroll in all required student success coursework and will be limited to 13 hours the first semester. First-time entering students who place into student success reading, writing, and mathematics will be required to take SAS 0203 On Course for Success and will be limited to 12 hours. If their cumulative grade point average is above 2.00, it would be their option to take SAS 0203 and are limited to 13 hours.

UAFS adheres to the guidelines established by the Rehabilitation Act of 1973, section 504. This act states that an institution must make reasonable accommodations for otherwise qualified students with a disability. Students are asked to make their disability known prior to the testing date so that the appropriate provision can be made.

CITIZENSHIP

Students who do not have United States citizenship, legal residency, or an appropriate visa will be charged out-of-state tuition and are not eligible for state or federal financial aid.

IMMUNIZATION RECORD

The Arkansas Department of Health (ADH) pursuant to Act 141 of 1987 requires that all full-time students and students housed on campus MUST provide the University with proof of immunization against measles, mumps, and rubella. Immunity can be shown by providing a serological test confirming immunity or documentation of having received two doses of measles, two doses of rubella, and two doses of mumps vaccine.

Proof of immunization is waived only upon receipt by the Records Office of an authorized waiver for health, religious or philosophical reasons. Waiver forms can be requested by emailing the Arkansas Department of Health at immunization.section@arkansas.gov. These forms must be completed, notarized, and mailed to the ADH at 4815 W. Markham, Mail Slot 48, Little Rock, AR 72205. If approved, the ADH will then send a letter confirming exemption and term to the student. It is the student's responsibility to bring this letter to the Records Office. This exemption must be renewed annually.

Immunization records can be obtained from:
1. the student's family physician,
2. the student's public school records,
3. the student's military records, or
4. the county health department.
A hold will be placed on a student’s record until the required documents are received.

Immunization records presented for admission become part of the student’s permanent record and the property of UAFS and are not reissued.

Act 1233 of 1999 requires colleges and universities to inform students of the increased risk of meningococcal disease (commonly called meningitis) for those who live in close quarters. The UAFS recommends that all students living in residence housing receive a meningitis vaccine. Students should contact their health care provider for information on this vaccine.

**ACTS - ARKANSAS COURSE TRANSFER SYSTEM**

[http://acts.adhe.edu](http://acts.adhe.edu)

The Arkansas Course Transfer System (ACTS) contains information about the transferability of courses within Arkansas public colleges and universities. Students are guaranteed the transfer of applicable credits and the equitable treatment in the application of credits for the admissions and degree requirements. Course transferability is not guaranteed for courses listed in ACTS as “No Comparable Course.” Additionally, courses with a “D” frequently do not transfer and institutional policies may vary. ACTS may be accessed on the Internet by going to the ADHE website and selecting Course Transfer.

**STUDENT SUCCESS RATES**

UAFS is committed to full compliance with the regulations cited in the Student Right to Know Act. Information regarding graduation rates and transfer-out rates are available in the Institutional Effectiveness office in the Fullerton Administration Building.
TUITION AND FEES

Financial Aid Information

UAFS is committed to providing a quality education at an affordable cost. Students who require financial assistance with tuition and other educational expenses should apply for financial aid well in advance of tuition and fee payment deadlines, allowing ninety days for processing. For more information about financial aid, see the “Financial Aid and Scholarships” section of this catalog.

Payment of Tuition and Fees

Students must pay their tuition and fees in full or make definite payment arrangements with the Cashier’s Office by the posted payment deadline. This applies to all students, including recipients of scholarships, veterans benefits, and other types of aid. A late payment fee of $100 will be posted to accounts not paid by the payment deadline.

Tuition and fee charges do not include the cost of textbooks and supplies. All other charges, such as parking violations, payment for lost instructional equipment, and charges for overdue or lost materials checked out of Boreham Library, must be paid prior to graduation, re-enrollment, or the sending of transcripts. Personal checks are accepted for payment of accounts, and a charge of $25 is assessed for returned checks. Students whose checks are returned by the bank are subject to administrative withdrawal.

Paying tuition and fees at UAFS may qualify students or their parents for the Hope or Lifetime Learning tax credits. For more information, see “Hope and Lifetime Learning Credits” in the Financial Aid section of this catalog.

Failure to attend and/or pay tuition does not constitute official withdrawal. Charges incurred by the student remain the student’s obligation. A student must officially withdraw from courses to be eligible for a refund.

Refund of Tuition

When a student officially withdraws from a credit course(s), tuition may be refunded according to the following schedule:

<table>
<thead>
<tr>
<th>DATE OF OFFICIAL WITHDRAWAL</th>
<th>FALL/SPRING SEMESTER</th>
<th>SUMMER TERMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before the first day of the semester</td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>During the first week of the semester</td>
<td>75%</td>
<td>50%</td>
</tr>
<tr>
<td>During the second week of the semester</td>
<td>50%</td>
<td>None</td>
</tr>
<tr>
<td>During the third week of the semester</td>
<td>25%</td>
<td>None</td>
</tr>
<tr>
<td>After the third week of the semester</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>
Refunds for short-term courses or courses starting at times other than the beginning of the semester will be calculated on the prorated basis of a regular semester course.

Fees for noncredit courses are not refundable after the first class meeting.

Students receiving Title IV funding (Federal Pell Grant, Federal SEOG Grant, or William D. Ford Direct Stafford Loans) who completely withdraw from classes will be subject to the “Return of Title IV” refund calculation, as outlined by federal regulations.

During the first 60 percent of an academic term, a student “earns” Title IV funds, in direct proportion to the length of time he or she remains enrolled. If a student withdraws before the 60 percent point, any unearned aid must be repaid to the respective Title IV program.

The Financial Aid Office calculates the amount of financial assistance the student earned while enrolled according to the following formula: number of days enrolled divided by total number of days in the semester. If the amount of federal aid disbursed exceeds the amount of aid earned as of the date of withdrawal, the student will be required to return some portion of the aid received.

Residency Determination

Students are classified as (1) in-state (have lived in Arkansas), (2) border state (have lived in Oklahoma, Missouri, Tennessee, Mississippi, Louisiana, or Texas) for at least six consecutive months prior to the beginning of the term for reasons other than attendance at UAFS, or (3) out-of-state and international for the purpose of determining tuition by legal residence.

The residency classification of a minor is the same as that of his or her parents or guardian unless the student is married or has otherwise established a separate legal residence.

Military personnel assigned to active duty in Arkansas shall be accorded in-state status. Military personnel assigned to active duty in Oklahoma, Missouri, Tennessee, Mississippi, Louisiana, or Texas shall be accorded border-state status. Spouses and dependents of active duty personnel shall be accorded in-state or border-state status as well, provided they reside in the states noted above. Forms for residency reclassification are available in the Records Office.

Students who knowingly give erroneous information in an attempt to evade payment of out-of-state fees are subject to dismissal from the University.

Tuition and Fees

The following tuition and fees are effective as of the Fall 2012 semester. Any and all fees may be increased or decreased and new ones established when deemed necessary.

<table>
<thead>
<tr>
<th>Tuition for Credit Courses</th>
<th>Charge per Credit Hour</th>
<th>Full Time (15 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-state</td>
<td>$130</td>
<td>$1,950</td>
</tr>
<tr>
<td>Out-of-state and international students</td>
<td>$355</td>
<td>$5,325</td>
</tr>
<tr>
<td>Border-state</td>
<td>$355*</td>
<td>$1,950</td>
</tr>
</tbody>
</table>

*Border-state tuition is $355 per credit hour with a discount of $225 per credit hour for a net charge per credit hour of $130, the same rate as in-state residents.

<table>
<thead>
<tr>
<th>Mandatory Fees</th>
<th>Charge per Credit Hour</th>
<th>Full Time (15 hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activity</td>
<td>$13</td>
<td>$195</td>
</tr>
<tr>
<td>Athletic</td>
<td>$15</td>
<td>$225</td>
</tr>
<tr>
<td>Technology</td>
<td>$12</td>
<td>$180</td>
</tr>
<tr>
<td>Campus Center</td>
<td>$2</td>
<td>$30</td>
</tr>
<tr>
<td>Library Fee</td>
<td>$3</td>
<td>$45</td>
</tr>
</tbody>
</table>
## Tuition and Fees (continued)

<table>
<thead>
<tr>
<th>Mandatory Fees</th>
<th>Charged per Semester/Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Health</td>
<td>$34</td>
</tr>
<tr>
<td>Registration</td>
<td>$25</td>
</tr>
<tr>
<td>Facilities</td>
<td>$22</td>
</tr>
<tr>
<td>Fitness Center Access</td>
<td>$12</td>
</tr>
</tbody>
</table>

### Other Fees

- **Fitness Center Course**: $25 per course
- **Nursing (BSN, ADN, and PN), imaging sciences, radiography, surgical technology, and dental hygiene**: $25 per clinical course
- **Student teacher internship**: $100 per course
- **Student teacher (out of area) internship placement**: $450 per course
- **Private music instruction**: $35 per credit hour
- **Distance education course**: $40 per credit hour
- **Child development program**
  - Two-hour course: $50 per course
  - Four-hour course: $100 per course
- **College of Health Sciences Assessment Fees**
  - ADN program, per ADN course: $75
  - LPN program, per LPN course: $70
  - BSN program per semester (starting 3rd semester): $75
  - Surgical Technology Program Assessment: $190 (charged in final semester of program)
- **College of Health Sciences Program**: $20 per credit hour
- **Sciences laboratory fee**: $35 per lab course

### Testing Fees

- **ACT Residual**: $36 per test
- **ACT Plan Test**: $10 per test
- **Business Major Fields Achievement Test (MFAT)**: $25 per test
- **Challenge Exam**: $20 per credit hour
- **COMPASS Distance Test (first test)**: $10
- **COMPASS retest**: $25 per test battery
- **CLEP administrative fee**: $15 per test
- **CLEP test (payable to CLEP)**: $77 per test
- **Correspondence test administration fee**: $30 per test
- **Foreign Language Placement Test**: $10 per test
- **GRE Subject Tests (payable to Educational Technology Services)**: $140 per test
- **Miller Analogies Test**: $65 per test
- **NLN PAX (payable to NLN)**: $35 per test
- **NOCTI administration fee**: $30 per test
- **NOCTI Test**: $22 per test
### Tuition and Fees (Continued)

**Oral Proficiency Interview**  $75 per test  
**PSB Test**  $20 per test  
**Surgical Technology Program Assessment (member)**  $190  
**Surgical Technology Program Assessment (non-member)**  $290  
**Test of English as a Foreign Language (TOEFL) Test**  $50 per test  
**Overnight delivery**  $15 per test  

### Other Charges as Applicable

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma replacement</td>
<td>$20</td>
</tr>
<tr>
<td>ID replacement</td>
<td>$20</td>
</tr>
<tr>
<td>Installment plan service</td>
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<tr>
<td>1-payment plan (per semester)</td>
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<td>Late payment fee (per semester)</td>
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<td>General circulation volumes (per day)</td>
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<td>Video and reserve room items (per day)</td>
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<tr>
<td>Lost item processing (+ replacement cost)</td>
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<td>UAFS students (+charges from loaning library)</td>
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<td>Public patrons (+charges from loaning library)</td>
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<td>Placement file fees</td>
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<td>Additional copies - pickup</td>
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<tr>
<td>Additional copies - mailed</td>
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<tr>
<td>Vehicle/traffic fines</td>
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</tr>
<tr>
<td>Failure to register vehicle violation</td>
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<tr>
<td>Handicapped parking violation (per occurrence)</td>
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<tr>
<td>Moving violation (per occurrence)</td>
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<td>Parking violation (per occurrence)</td>
<td>$25</td>
</tr>
<tr>
<td>Returned check</td>
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</tbody>
</table>

Tools, uniforms, and equipment may be required for certain programs on campus.
Financial Aid

www.uafs.edu/financialaid/financial-aid
(479) 788-7090

The Financial Aid Office provides a comprehensive program of federal grants, loans, work study, scholarships, third party assistance, and all financial aid programs administered by the Arkansas Department of Higher Education. Scholarships and veterans education benefits are also coordinated through the Financial Aid office. The Financial Aid staff is dedicated to assisting qualified students in obtaining the financial resources necessary to cover educational expenses. Students should refer to the above website for specific listings and selection criteria. The Financial Aid Office is located on the second floor of the Smith-Pendergraft Campus Center.

Applying for Financial Aid

Students must complete the Free Application for Federal Student Aid (FAFSA) to apply for federal financial aid programs and scholarships. Completion of the FAFSA is also required in order to be considered for State financial aid programs such as Arkansas Academic Challenge. The FAFSA should be submitted prior to June 1st and as soon as possible after the previous year’s taxes are completed. The electronic application is available on the Department of Education website, www.fafsa.gov. This free service is the fastest and easiest way to apply. Students can contact their high school guidance counselor or UAFS’s Financial Aid Office for additional information about completing the application. Once UAFS receives the processed application from the Department of Education, the student may be contacted for additional information or documentation. After all requested documentation has been submitted, processing by the Financial Aid Office will be completed in approximately two weeks. The student will then be notified of his or her financial aid eligibility through a financial aid award letter, or an email notification for current students. Once students gain access to LionsLink they should review their account information and accept their awards by clicking the “Money Matters” tab and following the links. Financial Aid disbursement for most programs will take place after the eleventh class day of the standard fall/spring term. In order to be eligible for the Federal Pell Grant, a student must be enrolled in classes prior to the disbursement date. Applications for grant or merit aid (other than Federal Pell Grants) received after the deadline will be considered only if money is available for funding from the respective program.

Eligibility for Financial Aid

To receive financial assistance, a student must be admitted to UAFS, be a U.S. citizen or eligible noncitizen (as defined by the Department of Education), or have an appropriate visa. They must also be in an eligible degree program. Concurrent high school students, students not seeking a degree and students admitted under the status of lifelong learner or transient student, are not eligible to receive financial aid. In general, a student must be enrolled in a minimum of six college credit hours to receive financial aid; however, it is possible for students enrolled in less than six hours to receive assistance through the Federal Pell Grant Program. The Pell Grant and some state grants are adjusted depending on the number of enrolled hours: one
to five hours is “less than half time”, six to eight hours is “half-time”, nine to eleven hours is “three-quarter time”, and twelve hours or more is “full-time”. Fifteen hours is considered full-time for most scholarships and state grants. Students must also demonstrate Satisfactory Academic Progress to receive financial assistance. UAFS’s Satisfactory Academic Progress (SAP) policy is summarized in the Additional Financial Aid Eligibility Requirements section.

ADDITIONAL FINANCIAL AID ELIGIBILITY REQUIREMENTS

Fulfillment of specified citizenship requirements and demonstration of financial need are requirements for federal financial aid programs. A student must not owe a repayment on a Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, or state grant and must not be in default on a Federal Perkins Loan, a Federal Stafford Loan, or a Federal PLUS loan received at UAFS or any other school. Students must submit all requested documents to the Financial Aid Office as soon as possible and before the end of the enrollment period or the last day of attendance, whichever occurs first. Students applying for financial aid must provide a Social Security number on the Free Application for Federal Student Aid (FAFSA). Students who cannot provide a social security number are not eligible for federal financial aid. The FAFSA must be updated each year as financial aid is not automatically renewed.

STUDENT LOANS

UAFS participates in the William D. Ford Federal Direct Loan Program, which is administered by the U.S. Department of Education.

Direct Subsidized Loans: interest is not charged while the student is in school at least half-time or during deferment periods. A student must have financial need to receive a Direct Subsidized Loan. UAFS will determine eligibility for a Direct Subsidized Loan based on information in the student’s FAFSA.

Direct Unsubsidized Loans: interest is charged during all periods, including school enrollment and during grace and deferment periods

Direct PLUS Loans: unsubsidized loans for parents of dependent students. PLUS loans help pay for educational expenses up to the cost of attendance minus all other financial assistance. Interest is charged during all periods.

Direct Consolidation Loans: for students or parents. Borrowers can combine different federal student loans into one loan.

Students and/or parents who are interested in applying for student loans to assist in the payment of educational expenses begin the student loan process by first completing the Free Application for Federal Student Aid (FAFSA). After the FAFSA has been processed by the Financial Aid Office, students will be notified of the amounts they can borrow on their financial aid award letter, or by email notification for current students.

The award notification will contain instructions on using LionsLink to accept, cancel, or reduce the amount of their loan. First-time borrowers are required to complete a Student Loan Entrance Counseling session and sign a Master Promissory Note (MPN) at studentloans.gov. It should be noted that loan funds will not be disbursed if either the MPN or Entrance Counseling is not completed.

Student loans borrowed in subsequent years of attendance beyond the first year should be accepted on LionsLink. The borrower is not required to complete a new MPN or Entrance Counseling each year.

Federal consumer information regulations require UAFS to notify students of how to contact the Federal Student Loan Ombudsman’s Office. A student loan ombudsman works with student loan borrowers who need help with their federal student loans.

Student loan issues should first be addressed by working with the UAFS Financial Aid Office. For unresolved issues, students may contact the Federal Student Aid (FSA) Ombudsman as follows:

Telephone (877) 557-2575 (toll-free)
Fax (202) 275-0549
Internet www.ombudsman.ed.gov

SATISFACTORY ACADEMIC PROGRESS FOR FINANCIAL AID APPLICANTS

Students receiving assistance through federal financial aid programs (including students loans) are required to meet three separate requirements to maintain financial aid eligibility at UAFS.

First, students are required to maintain a minimum grade point average. Second, students are required to complete and pass at least 67 percent of the credit hours attempted. Third, students must complete the degree program they are enrolled in within the
maximum number of attempted credit hours allowed for their particular degree. These three requirements are summarized below. Failure to meet these minimum academic standards will result in the loss of financial aid eligibility.

Requirements
1. Minimum GPA 2.00
2. Percentage of attempted hours to be completed each academic year and overall is 67%.
3. Maximum attempted hours allowed, including transfer hours accepted by UAFS, for earning a degree or certificate.
   - 186 hours - First bachelor’s degree
   - 240 hours - Second bachelor’s degree (eligible for specific types of financial aid only)
   - 125 hours - AAS Dental Hygiene
   - 115 hours - AAS Nursing & Radiography
   - 98 hours - First associate degree
   - 138 hours - Second associate degree
   - 87 hours - One-year PN program
   - 45 hours - One-year certificate program

Satisfactory academic progress is calculated at the end of each term. At the end of the Spring term, students must have completed at least 67% of all courses enrolled in during the previous fall and spring terms and cumulatively to remain eligible for financial aid.

Financial Aid Warning
Students not meeting the requirements shown above will be placed on financial aid warning for the next term of enrollment. While on warning, a student may continue to receive financial aid. However, a student may be on financial aid warning for one term only. Progress is checked at the end of the warning term and all three SAP requirements must be met at that time.

Financial Aid Suspension
A student who has failed to make satisfactory academic progress while on financial aid warning is placed on financial aid suspension. A student may be placed on financial aid suspension, without first being on financial aid warning, if they have failed to meet the requirements for SAP, or if they receive all “F” grades and/or withdraw from all courses in a semester. If extenuating circumstances exist that hindered the student’s ability to make satisfactory academic progress, he or she can submit an appeal for financial aid suspension review. If the appeal is approved, the student is placed on an academic plan and may continue to receive financial aid as long as conditions of the academic plan are met. Financial aid suspension means the student is not eligible to receive financial assistance and can also result in a permanent loss of eligibility.

FINANCIAL AID APPEAL
An appeal process is available to a student who is placed on financial aid suspension. Students who have exceeded the number of hours allowed for their degree may also appeal for an extension of hours. Satisfactory academic progress appeal forms are available in the Financial Aid Office or can be printed from the UAFS website at www.uafs.edu/financialaid/financial-aid-forms.

STUDENT EMPLOYMENT
Numerous on-campus jobs are available to students attending UAFS and are coordinated through the UAFS Financial Aid Office. Students interested in securing part-time positions are encouraged to check with the student employment coordinator in the Financial Aid Office. Students must complete the UAFS Student Employment Application to be considered for on-campus employment. Students can be employed in either of two programs listed as follows:

Federal Work-Study Program - Students work up to 15 hours per week and are paid the federal minimum wage. Student wages are paid by funding received from the federal government. Students must complete a FAFSA and demonstrate financial need to be considered for federal work-study positions.

University Work-Study Program - Students work up to 15 hours per week and are paid the federal minimum wage. All student wages are paid by UAFS, not from federal sources, and are not based on financial need. Students are not required to complete the FAFSA to be considered for a position.

FINANCIAL AID FOR TRANSFER STUDENTS
According to federal regulations, any student applying for federal financial aid who is transferring from another school during the academic year must
have their FAFSA information sent to UAFS. Go to www.fafsa.gov to make a correction and add “001110,” the school code of UAFS. Additionally, all coursework accepted from previous institutions will be used in the determination of satisfactory academic progress. An official transcript from each institution attended must be submitted to the Records Office. The Financial Aid Office will determine if the student has any remaining eligibility for federal or state programs.

**FINANCIAL AID FOR NATIONAL GUARD MEMBERS**

UAFS participates in both the Federal Tuition Assistance Program (FTA) and the Guard Tuition Incentive Program (GTIP) for soldiers who are serving as active members of the Arkansas Army National Guard and Arkansas Air National Guard. The FTA program provides assistance for up to 100 percent of the student’s expenses for tuition and fees. The GTIP program offers up to $5,000 per semester. Eligibility information about these programs can be found online at www.arguard.org. U.S. Army Reserve soldiers may also be eligible for FTA. For more information, please contact your unit.

In addition to the tuition assistance available through these programs, UAFS offers a 25 percent tuition waiver to eligible members of the Arkansas Air National Guard. Students must request the 25 percent tuition waiver by contacting the education office at their Guard Unit.

**VETERANS**

Military service veterans and sons, daughters, wives, widows, widowers, and husbands of deceased or 100 percent disabled veterans should contact the veterans certifying official in the Financial Aid Office. Eligible University students may qualify for the GI Bill, Vocational Rehabilitation, War Orphans, and other types of VA assistance.

Students using veterans benefits should be aware of VA regulations governing academic standards. No payment of educational benefits will be made for auditing a course or for a course that is not used in computing graduation requirements.

All applications and inquiries should be addressed to the Veterans Affairs Officer, Financial Aid Office, Smith-Pendergraft Campus Center, room 221A. Complete information about VA requirements and procedures will be provided upon request.

**Scholarships**

UAFS’s prospective and current students have several scholarship opportunities available. In general, scholarships for first-time entering freshmen do not require an application. These students are automatically considered for University scholarships upon receipt of an application for admission, ACT scores, and a high school transcript. There are a limited number of prestigious scholarships that require a separate application. The application for these scholarships is available in September. Scholarships for transfer, current, and other categories of students are also available. Information on all UAFS scholarships, including deadlines is available at www.uafs.edu/financialaid/scholarships.

UAFS scholarships are awarded in varying amounts and are based on specific criteria, such as academic achievement and potential, talent, major, and financial need. Deadlines for scholarships vary and can be seen on the website mentioned above.

External scholarships offered by companies, civic groups, churches, and other organizations are also available. Scholarship information is posted as it is received from these entities on the scholarship information board, located on second floor of the Smith-Pendergraft Campus Center near the Financial Aid Office and is also posted on the scholarship website mentioned above.

Act 1180 of 1999 provides that when a student receives public funds, federal or state, the student’s total aid awarded cannot exceed the cost of attendance. Student financial aid is therefore limited to the cost of attendance. The Financial Aid Office monitors awards to prevent an over award from occurring. Please contact Financial Aid with questions.

General UAFS Foundation scholarships are offered through the generosity of community donors and friends of the University. Current students who are sophomores or higher will be considered for both the University and Foundation Scholarships by completing a scholarship application.

UAFS also offers the Chancellor’s Transfer Scholarship to (2) two students who have completed a two-year degree program from Carl Albert State College, Rich Mountain Community College, North Arkansas College, Northwest Arkansas Community College, National Park Community College, University of Arkansas Community College, University of Arkansas at Monticello, and University of Arkansas at Fort Smith.
at Batesville, and University of Arkansas Community College at Morrilton. Students interested in this scholarship opportunity who meet these criteria must apply at their respective community colleges. Selection of the scholarship recipient is based upon recommendation of the community college.

Arkansas Department of Higher Education Scholarship and Grant Programs

Several scholarships and grant programs are available through the State of Arkansas. They include the Arkansas Academic Challenge (Lottery) Scholarship and several others. For more information, deadlines, and to apply, go to www.adhe.edu and complete the “YOUniversal” application. All students must also complete the FAFSA to be considered for these programs.
Student Affairs

UAFS is committed to providing a student-centered learning community inspiring the pursuit of academic excellence from all students. Student growth through intellectual, cultural, personal, and social development takes place inside and outside UAFS classrooms. Student Affairs will continue to enhance the out-of-class educational experience, complementing the academic mission of the University and educating University of Arkansas - Fort Smith students for the challenges of meaningful and responsible citizenship.

Non-Traditional Programs

OFFICE OF NON-TRADITIONAL STUDENT SUPPORT
www.uafs.edu/life/non-traditional-students
(479) 788-7319

The Office of Non-traditional Student Support is located in the Smith-Pendergraft Campus Center, room 111A. The mission of the office is to provide a success oriented environment, connect non-traditional students with the campus community, understand the unique challenges facing non-traditional students, and to recognize non-traditional students’ value to UAFS. The Office of Non-Traditional Student Support provides support, information, resources, fun and informative events throughout the year, advocacy for non-traditional student concerns, and leadership opportunities.

Student Programs

ATHLETICS
www.uafortsmithlions.com
(479) 788-7590

UAFS athletic teams engage in intercollegiate competition in men’s baseball, basketball, golf, tennis, and cross country, and women’s basketball, golf, tennis, cross country, and volleyball.

UAFS is known nationally for its strong tradition in intercollegiate athletics. A longtime member of the NJCAA, where it won two national championships in men’s basketball and one in women’s basketball and was national runner-up in women’s basketball and volleyball, UAFS became a member of NCAA Division II in 2009 and is a member of the prestigious Heartland Conference.

Scholarships are awarded for participation on all intercollegiate teams, and “walk-ons” are encouraged to try out for UAFS teams.

Athletic participation rates and financial support data are available from the Athletic Department upon request.

University students, faculty, staff, and fans take great pride in their support of UAFS athletics. University students are admitted free to all athletic events by presenting a current UAFS student ID card.

The Campus Activities Board also boasts the Blue Crew which is the student cheering section for Lions athletics.
CHEER AND POM SQUADS
Tryouts for the Cheer and Pom Squads are held during the spring semester. Fall tryouts are held only if necessary. The squads cheer at the home basketball, volleyball, and baseball games, plus a limited number of the away games. For eligibility requirements, contact the Box Office, Smith-Pendergraft Campus Center, room 103.

CUB CAMP
www.uafs.edu/cubcamp
(479) 788-7695
Cub Camp is a freshman experience designed to prepare first-time, full-time UAFS freshmen for a successful transition into college. It also includes an interactive, year-long networking experience geared toward helping new students learn about ongoing traditions and campus culture while instilling pride. Cub Camp is held prior to the fall semester.

GREEK LIFE
www.uafs.edu/life/greek-life
(479) 788-7694
The mission of the UAFS fraternity and sorority community is to enhance student development through membership in Greek lettered organizations. The Greek life community will promote an inclusive value-based atmosphere where organizations and individual members achieve academic success, exemplify leadership, appreciate civic engagement, create bonds of brotherhood and sisterhood, and support a healthy and culturally diverse environment, with the assistance of the Coordinator of Greek Life. By developing these skills, sorority and fraternity members learn to conduct themselves in a manner that reflects the values and standards associated with membership in a fraternal organization, while complementing and enhancing the educational mission and vision of UAFS. Greek Life at UAFS is an opportunity for students to become involved with the University while fulfilling the missions and goals of the Student Activities Office and the University as a whole.

Eight Greek-letter organizations are recognized student organizations by UAFS:

Greek Letter Organizations for Women
- Delta Sigma Theta
- Delta Gamma
- Gamma Phi Beta
- Gamma Eta

Greek Letter Organizations for Men
- Kappa Alpha Order
- Kappa Sigma
- Pi Kappa Phi
- Sigma Nu

Greek Governing Bodies
- UAFS Panhellenic Council (PC): The governing body over the Greek organizations for women
- UAFS Interfraternal Council (IFC): The governing body over the Greek organizations for men
- Multicultural Greek Council (MGC): The governing body of culturally based fraternities and sororities

Greek Letter Honor Societies
- Gamma Sigma Alpha
- Order of Omega

Greek Judicial Board
The Greek Judicial Board has been established to conduct disciplinary hearings for violations of university policy involving Greek organizations. The Vice Chancellor for Student Affairs and/or the Greek Advisor assigns appropriate cases to the Board. Decisions of the Board are recommendations to the Vice Chancellor for Student Affairs.

MUSIC
www.uafs.edu/music
The Department of Music offers performance opportunities and music study. Performing ensembles include University Chorale, Women’s Chorus, Symphonic Band, Jazz Band, Lions Athletic Band, Brass Ensemble, Woodwinds Ensemble, Percussion Ensemble, and the Jazz Catz.

ORGANIZATIONS
www.uafs.edu/life/student-organizations
Student organizations are a vital piece of the collegiate experience at UAFS. Organizations provide students with a way to get involved on campus, develop and enhance leadership skills, become active in the community, and learn more about others and their cultures. UAFS offers more than 70 organizations to its students. There are nine categories of organizations: academic, arts, culture, fraternity and sorority life, honor society, political, religious, special interest, and university outreach. New organizations are created by students each semester; please visit www.uafs.edu/
life/student-organizations for a complete listing of recognized student organizations

**STUDENT GOVERNMENT ASSOCIATION**
www.uafs.edu/life/student-government-association

The Student Government Association (SGA), including the senate, serves as the elected representative body of the students at UAFS. SGA provides a forum to openly discuss student issues, advise the administration, and recommend services to improve the quality of campus life. SGA also is involved with the allocation of activity fees to student organizations. Positions are elected in the spring for the following academic year.

**SEASON OF ENTERTAINMENT**
www.uafs.edu/season

The Season of Entertainment is composed of events including concerts by the Jazz Band, Jazz Katz, Symphonic Band, and Chorale, as well as national touring productions.

Students may pick up their free ticket two weeks prior to the event or may purchase tickets at anytime. The Box Office is located on the first floor of the Smith-Pendergraft Campus Center.

**STUDENT ACTIVITIES**
www.uafs.edu/life/student-activities-office
(479) 788-7310

Through a team of student centered professionals, in support of the mission and vision of the University of Arkansas - Fort Smith, the Student Activities Office fosters student engagement, learning, development, and success by supporting and challenging students in their efforts to become responsible global citizens and informed leaders, extending learning opportunities beyond the classroom, meeting the social and recreational needs of the student body, and advocating on behalf of all students. The Student Activities office is located in room 115 of the Smith-Pendergraft Campus Center.

**WELCOME CENTER**

The Welcome Center provides a central location for daily announcements, computer access, and information to students and guests of the University. The Welcome Center is open to all students. You can always find students hanging out, studying, or playing games in this area. The Welcome Center is located in room 115 of the Smith-Pendergraft Campus Center.

**DENTAL HYGIENE CLINIC**

The UAFS dental hygiene program operates a clinic in which the students treat patients under the supervision of dental/dental hygiene faculty. The clinic is on the first floor of the Pendergraft Health Sciences Center. Preventive services offered to UAFS students, faculty, staff, and the general public include:

- medical/dental history and vital signs
- oral hygiene education
- radiographs (x-rays)
- blood pressure screening
- prophylaxis (dental cleaning)
- oral examination
- head and neck cancer screening
- dental examination
- fluoride treatment
- periodontal assessment
- periodontal debridement and quadrant scaling
- dental sealants
- nutritional counseling

More than one visit is usually required to complete treatment. To schedule an appointment, please call the College of Health Sciences at (479) 788-7270.

**COUNSELING CLINIC**

The Counseling Clinic of UAFS supports the mission of the University by enabling students to maximize their educational experience through counseling and psychotherapy.

The clinic is open from 8:30 a.m. until 5:00 p.m. Monday through Friday (closed noon to 1 p.m.) and is located on the third floor of the Pendergraft Health Sciences Center, room 312.

Appointments may be made by dropping in or calling (479) 788-7398. Walk-in appointments will be accommodated as soon as possible.

**POWELL STUDENT HEALTH CLINIC**

The Powell Student Health Clinic provides high quality non-emergency health care services to UAFS students to assist with improving their health and safety so they may benefit from the educational process and achieve their full potential. The Powell Student Health Clinic is located on the second floor of the
Pendergraft Health Sciences Center and can be reached by phone at (479) 788-7444. The clinic is open from 1 to 5 p.m. Monday and Wednesday, 8 a.m. to noon, and 1 to 5 p.m. Tuesday and Thursday, and 8 a.m. to noon on Friday. Clinic hours are subject to change at any time and may vary during the summer. Last patient is seen 30 minutes prior to the posted closing time. Lions ID card is required to be seen.

Types of services provided include treatment for common illnesses and minor injuries, laboratory work when indicated, acute care management, and prescriptions. X-rays and ultrasounds are provided by Imaging Sciences faculty when ordered by the health care provider.

PHYSICAL HEALTH

Chronic Communicable Diseases

UFAS places a high priority on the need to prevent the spread of chronic communicable diseases on campus. Because there is currently no cure or vaccine for Acquired Immune Deficiency Syndrome (AIDS) or many types of hepatitis, prevention of transmission is essential. Approximately one to two percent of middle-class Arkansans under the age of 20 will test positive for tuberculosis (TB), a disease of the lungs. The transmission risks of chronic communicable diseases such as AIDS, hepatitis, and tuberculosis can be greatly reduced by providing a program of education on prevention to students and employees. Equally important is to establish a policy regarding victims of chronic communicable diseases which safeguards individual rights while protecting others on campus from needless, careless exposure. Consequently, the following guidelines are hereby instituted:

1. Individual Responsibility

A student who has a chronic communicable disease or who is a carrier of a chronic communicable disease may attend the University and participate in programs and activities whenever, through reasonable accommodation, there is no significant risk of transmission of the disease to others. A student who has a chronic communicable disease or who is a carrier of a chronic communicable disease may be denied admission to, or may be dismissed from, a particular program or course of study whenever such chronic communicable disease presents significant risks of transmission having a direct effect on the student’s ability to perform effectively, thereby rendering the student not qualified for the program or course of study.

No other person who has a chronic communicable disease, or who is a carrier of a chronic communicable disease, shall be denied the use of the University facilities or service whenever, through reasonable accommodation, there is no significant risk of transmission of the disease to others. Willful or careless exposure of other persons by an individual who has or is a carrier of a chronic communicable disease is a reckless, inconsiderate, negligent act which endangers everyone. If it is determined that a person has or is a carrier of a chronic communicable disease and that person has not taken adequate precautions to prevent transmission of the disease to others, then that person will be subject to dismissal from the University.

2. Reporting Procedures

Students shall notify the vice chancellor for student affairs if they have, or are carriers of, chronic communicable diseases. Such notification allows the University to evaluate each individual case and take the necessary precautions to minimize the risks of transmission to others.

Students who suspect they are suffering from TB or other chronic communicable diseases must contact their doctor immediately. Local county health departments will be informed of all confirmed TB cases. Additionally, students are required to notify the vice chancellor for student affairs if TB is confirmed. The campus response to reported TB cases on campus will be fully coordinated with the Sebastian County Health Department. Students and faculty who shared classroom or office space with the individual will be notified. Confidentiality of the student will be protected. International students, as a part of the application for admission process, are required to obtain a medical doctor’s certification that no symptoms of the disease are present. Following enrollment and in accordance with ACT 96 of 1913, international students are required to do additional testing to confirm the lack of TB symptoms.

A confidential appointment with the vice chancellor for student affairs may be arranged by calling (479) 788-7310.
**FOOD COURT AND DINING HALL HOURS**

The Food Court is located on the first floor of the Smith-Pendergraft Campus Center. Its hours are:

- **Monday-Thursday**
  - 7:30 a.m. – 4:00 p.m.

- **Friday**
  - 7:30 a.m. – 2:00 p.m.

The Dining Hall at the Lion’s Den is also open to non-residential patrons. Its hours are:

- **Monday-Friday**
  - Breakfast   7:30 a.m. – 9:00 a.m.
  - Lunch   11:00 a.m. – 1:30 p.m.
  - Dinner   4:30 p.m. – 7:00 p.m.

- **Saturday and Sunday**
  - Brunch   10:30 a.m. – 1:00 p.m.
  - Dinner   5:00 p.m. – 6:00 p.m.

**CAMPUS RECREATION AND WELLNESS**

**Fitness Center**

[www.uafs.edu/fitness/fitness-center-home](http://www.uafs.edu/fitness/fitness-center-home)

The UAFS Fitness Center is located in the Gymnasium. The fitness center houses state-of-the-art Nautilus Nitro selectorized equipment, a full line of Nautilus cardio equipment, and circuit training and free-weight equipment. The fitness center provides facility and equipment orientations, personal body assessments, personal exercise prescriptions, and non-credit group exercise classes. All students currently enrolled in UAFS classes are admitted to the fitness center by presenting a valid Lions ID card.

**Intramural Sports**

[www.uafs.edu/intramurals](http://www.uafs.edu/intramurals)

Intramural sports complement the program of intercollegiate athletics. Students with a 2.00 semester GPA who are enrolled in six credit hours are welcome to participate. Sports are offered each semester and include dodgeball, flag football, ping pong, basketball, ultimate frisbee, bowling, soccer, softball, and volleyball. Various tournaments are also held.

**Outdoor Adventure**

[www.uafs.edu/rec-wellness/outdoor-adventure-program](http://www.uafs.edu/rec-wellness/outdoor-adventure-program)

The Outdoor Adventure program provides opportunities for students to have a fun, exciting, adventures based education. The philosophy of the Outdoor Adventure Program is to provide for the cultural and physical development of students in a wide range of outdoor pursuits and environmental settings.

**PARKING/TRAFFIC REGULATIONS**

Students may park in any of the University’s unrestricted parking spaces. All unrestricted parking spaces are marked on either side by solid lines and do not include curbs. Restricted spaces are so designated and enforced. Parking and traffic violations such as speeding, careless or prohibited driving, operating a vehicle producing excessive noise, or failure to report an accident occurring on campus carry a fine that must be paid to the cashier in the Smith-Pendergraft Campus Center within five days of issuance. In lieu of University sanctions, municipal citations may be issued for serious/repeat violations.

Additional parking spaces are available in the Westark Church of Christ parking lot (lot J) east of Waldron Road. This parking Is made available via a mutual agreement between UAFS and Westark Church of Christ. Students and staff are prohibited from parking in the reserved lot on the east side of the church.

**RESERVED PARKING FOR STUDENTS WITH PHYSICAL DISABILITIES**

All students, faculty, and staff who have a state-issued handicapped parking permit are allowed to utilize physical disabilities parking on campus. In addition, application may be made for short term university-issued passes. Employees may apply through the Office of Human Resources in the Fullerton Administration Building. Students may apply in the Student Activities Office, located in room 111 of the Campus Center. Hours of operation are 8 a.m. through 5 p.m., Monday through Friday.

Temporary permits are available for one to 30 days for those with short-term physical limitations. One renewal is possible, but only with a new application and updated documentation. Please remember to bring the following items in order to apply:

1. A letter from a physician, specifically stating the need for the pass and an estimated duration;
2. Driver’s license
3. UAFS ID card
4. License plate number on car

**HOUSING AND RESIDENTIAL LIFE**

[www.uafs.edu/housing](http://www.uafs.edu/housing)

The Office of Housing and Residential Life strives to support the mission of UAFS and the Office of Student Affairs by promoting a spirit of community, developing programs which support student retention
and success, and extending student learning beyond the classroom. The Department is committed to providing well-maintained, quality on-campus residential opportunities for the campus community.

Residents will have the opportunity to participate in a wide variety of programs on social, educational, recreational, cultural, and health and wellness related topics. Contact the Housing Office at (479) 788-7340 for additional information.

New students who lived on campus during the 2010-2011 academic year had a higher average GPA than their peers and were also more likely to return for the next year. The University offers Sebastian Commons Apartments for upper-level students and the Lion’s Den Residence Hall for freshmen and other interested students. All rooms are equipped with basic cable and internet service. Laundry facilities are located on site in both Sebastian Commons and the Lion’s Den.

**Sebastian Commons Apartments**

Sebastian Commons offers a unique student housing experience for upper-level students and married students who wish to reside on campus. It is an exclusive apartment community for UAFS students, with one-, two-, and four-bedroom floor plans. Amenities include all basic utilities including full kitchen, individual rooms, queen or full-sized beds, gated parking, and sand volleyball and basketball courts on site.

**Lion’s Den Residence Hall**

The Lion’s Den opened in Fall 2010 and is home to primarily first-year students. The residence hall is a sustainable design and features several spaces enhanced for community building. Residents enjoy a variety of suite-style room options including one-, two-, and three-bed floor plans with four to five people in each spacious suite. Amenities consist of fully furnished rooms, lofatable extra-long twin beds, community lounges, safety and security features, residential programming, and all utilities, cable TV, and internet included. The on-site dining facility accommodates students with flexible meal plans in a setting that is both convenient and comfortable. The dining hall is an “all you care to eat” facility with several healthy options. For information on either facility call the Housing Office at (479) 788-7340.

**UNIVERSITY POLICE**

[www.uafs.edu/upd](http://www.uafs.edu/upd)

UAFS strives to provide a safe and secure environment for its students, faculty, staff, and guests. Every member of the campus community has a role in campus safety. Students, faculty, staff members, and visitors are encouraged to be vigilant and report crimes, suspicious activity, and hazardous conditions to the University Police Department at (479) 788-7140. In instances of a life-threatening emergency or crime in progress, first call 9-1-1, then notify University police.

The University Police Department consists of a force of certified police officers, providing 24-hour coverage. An important component of on-campus safety and security is student behavior. Students are expected to comply with the standards of conduct published in the Student Handbook, distributed and available through the Student Activities Office.

**LIONS ALERT**

The safety of the students, faculty, and staff of UAFS is of utmost importance. To that end, UAFS has implemented a notification system to provide timely and accurate information to our campus community during emergencies.

Lions Alert provides a secure, web-based emergency alert system that sends text and voice messages via cell phone, land line telephone and email. Lions Alert gives UAFS a comprehensive, real-time, mass-notification system to keep the campus community informed of emergencies, and to give instructions on how to respond to those emergencies.

To help make Lions Alert live and online, UAFS automatically adds the contact information of students, faculty, and staff to the system. To update or remove contact information from Lions Alert, access Lions Link at [http://luminis.uaforsmtih.edu/cp/home/login](http://luminis.uaforsmtih.edu/cp/home/login). Informational emails concerning Lions Alert will also be sent each semester.

Questions regarding Lions Alert should be directed to the Service Desk at uafs@service-now.com or 788-7460.
Student Conduct

**UAFS ALCOHOL POLICY**

Student possession and use of alcohol in University facilities, including residential housing, and at official University functions held on campus is prohibited. It is the policy of the University that the illegal or abusive use of drugs or alcohol by employees and students is prohibited on University property or as a part of any university activity whether on or off campus. Irresponsible behavior while under the influence of intoxicants is not to be condoned and may be subject to review and/or action by the appropriate judicial body.

**UAFS DRUG POLICY**

Possession, use, or manufacture of illicit drugs is strictly prohibited at the University of Arkansas - Fort Smith. Students at UAFS are subject to disciplinary action for violation of federal or state laws regarding the possession, purchase, manufacture, use, sale, or distribution (by either sale or gift) of any quantity of any prescription drug or controlled substance, except for the use of any over-the-counter medication or for the prescribed use of medication in accordance with the instructions of a licensed physician. Possession of paraphernalia associated with the use, possession or manufacture of a prescription drug or controlled substance is also prohibited.

**ALCOHOL/DRUG ABUSE**

UAFS recognizes its’ responsibility to provide a healthy environment in which students may learn and prepare themselves to be fully functioning and productive individuals. Alcohol and other substance abuse is a university concern. When students abuse alcohol and other drugs, academic performance, health, personal relationships, and safety suffer. Abusive levels of alcohol use and other drugs often result in problems such as automobile and other accidents, student fights, property damage, aggravated physical illness, and sometimes death. Students need to know what their responsibilities are as members of the university community and understand the university’s expectation and regulations. The abuse of alcohol and other drugs is considered to be detrimental to the attainment of the educational mission of this institution.

UAFS has implemented the following policy regarding substance abuse:

1. Any student found in violation of these procedures will immediately be placed on probation and shall be subject to additional disciplinary actions which may include dismissal from UAFS.
2. The vice chancellor for student affairs or director of housing and residential life will make information available to students about the dangers of drug abuse, the availability of counseling, and the penalties for violations. Such information will be promulgated in the student handbook, visual displays, drug-awareness sessions, etc.
3. Students who have no record of conviction for drug abuse and who voluntarily seek counseling for drug-abuse problems may not be dismissed from the University. However, if a drug-abuse conviction occurs after counseling/rehabilitation has begun, the student is liable for the full range of University disciplinary measures.
4. The vice chancellor for student affairs will be responsible for the implementation of these procedures.
5. Specific degree programs may have additional policies related to prevention and management of substance abuse. Students enrolled in these degree programs are responsible for adhering to College-specific policies as well as University policies.

**CODE OF CONDUCT FOR STUDENTS**

The Student Code of Conduct can be found at www.uafs.edu/university/student-handbook. Any questions should be directed to (479) 788-7310. The University approach to the Code is expressed in the following paragraph:

The Student Code of Conduct is an expression of behavioral standards that are intended to allow students and others at UAFS to live, work, study, recreate, and pursue their educational goals in a productive and secure environment. The Code is crafted to reflect expectations based on values essential to such an environment and to a flourishing academic community, such as honesty, integrity, respect, and fairness. That said, we strive to recognize and honor core tenets of our free society and our academic legacy, such as free speech, the ‘marketplace of ideas,’ and free association. Therefore, much expression that may be offensive, unpopular or both will not be actionable under this Code. Further, those who administer the Code attempt to craft both hearings and sanctions in a manner that takes into account the developmental issues and educational needs of students, as well as the well-being of the university community.
TOBACCO-FREE CAMPUS POLICY

The use of any tobacco product, including electronic cigarettes, is prohibited on the grounds of UAFS in order to establish a healthier and more beautiful learning environment. The tobacco-free environment includes all University property, which according to State Statute 25-17-301, “... shall include all highways, streets, alleys, and rights-of-way that are contiguous or adjacent to property owned or controlled by the institution.”

POLICY FOR FACULTY, STAFF, STUDENTS, AND VISITORS

Everyone on campus (faculty, staff, students, and visitors) has a responsibility to encourage peers and others to adhere to the tobacco-free campus policy. As such, an environment of positive peer support can move the campus community significantly toward the goal. When peer or supervisor encouragement is not effective, the primary responsibility for enforcement rests with the appropriate supervisors in each area with the assistance of the University Police Department. Failure to adhere to policy will be handled as would any other disciplinary issue. Employees should refer to the Employee Handbook. Visitors will be informed of the policy and asked to comply. Student compliance will be addressed by the three-level process listed below. The intent of the progressive corrective action models in the Employee Handbook and listed below are to create a better learning environment for everyone on campus.

CORRECTIVE ACTIONS (STUDENTS)

First Level: Warning

A verbal warning will be given to the offending tobacco user by anyone observing the behavior. The first-level warning is done to ensure that the person is aware that tobacco use on campus is not allowed and to help the person change the behavior. An attempt to identify the offender will be made by ascertaining the person’s name or vehicle license plate number. Verbal warnings will be documented by reporting the same to the University Police Department or the vice chancellor for student affairs.

Second Level: Written Warning

A written warning will be issued when the offending behavior continues following a verbal warning. The offending person’s name and the circumstances should be reported to the University Police Department, the vice chancellor for student affairs, or the dean’s office in that area/building. A report will be prepared by the University Police Department, and the person(s) involved will be counseled by the vice chancellor for student affairs with a written warning to the student/file to document the behavior and assist the person in ceasing the use of tobacco on campus.

Third Level: Administrative Sanctions including Suspension from the University

Should the second-level written warning be ineffective, additional administrative sanctions will be levied to include required attendance at a tobacco-use information session or suspension from the University for a semester or longer. The sanctions imposed must be delivered in writing.

Due Process – Appeal of Action

The normal disciplinary action due process procedures in the Student Handbook and Course Catalog will be used should an appeal be filed.
Advisement

Academic advisement is critical in promoting academic success, retention and graduation. Students are assigned to professional advisors, college advisors and/or faculty advisors by their declared major. Establishing a relationship with an advisor ensures that students are meeting their specific degree requirements and accomplishing their personal academic goals.

Students will be assigned an advisor according to their declared major. Once assigned, each college or advising unit will have their own advisement process. Students are required to meet with their assigned faculty or professional advisor during the designated advising dates prior to their registration date(s) each semester. Students may view their assigned faculty or professional advisor’s name in LionsLink.

STUDENT ADVISEMENT AND CAREER PLANNING
www.uafs.edu/advising
(479) 788-7400

Student Advisement and Career Planning advises students in student success courses regardless of their declared major, students seeking an associate’s degree, certificate, and non-degree seeking students. Professional advisors are available to assist students with goal setting, career exploration, selection of a major, course requirements, and to assist students in connecting with appropriate resources. They encourage career exploration by assisting students in the use of the Career Resource Center’s services which include: personal assessments, a resource library, and the career exploration computer program, E-Discover. Professional advisors are available to work with students by appointment and email. Except for designated holidays, the hours for Student Advisement and Career Planning are 8:00 a.m. to 6:00 p.m., Monday through Thursday and 9:00 a.m. to 5:00 p.m. on Friday. Student Advisement and Career Planning is located on the second floor of the Smith-Pendergraft Campus Center.

Students seeking a bachelor’s degree and who are enrolled in all college level course work are advised within the college of their major. For information and phone numbers for each college are noted below.

COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

Students who have been awarded an associates degree and are eligible to declare the Bachelor of Applied Science (BAS), the Bachelor of Science in Organizational Leadership (BSOL) or the Bachelor of Science in Animation Technology (BSAT) may call (479) 788-7785 for additional advising information. Associate degree seeking students are advised in Student Advisement and Career Planning.

COLLEGE OF BUSINESS

Call (479) 788-7800 for information.

COLLEGE OF EDUCATION

Call (479) 788-7942 for information.

COLLEGE OF HEALTH SCIENCES

Students declaring a bachelors degree or students that have been accepted into one of the health science programs in the College of Health Sciences
may call (479) 788-7841 or (479) 788-7283 for information about advising in the College of Health Sciences. Students seeking an associate’s degree or students seeking a bachelor’s degree who are enrolled in student success courses in the College of Health Sciences are advised in Student Advisement and Career Planning prior to acceptance into their programs.

COlLege oF hUmanITIes AnD SoCIal SciCeNces
Call (479) 788-7433 for information. Music majors should call (479) 788-7530.

COlLege oF LaNGUAges AnD CoMMunICAtIoN
Call (479) 788-7290 for information.

COlLege oF ScIenCe, TecHnoloGy, enGeRIneering & mAThemATIcS
Call (479) 788-7129 for information.

Career Services Office

Career Services offers employment assistance and graduate school information for current students and graduates. Employment services include resume building and interview skills assistance, job listings, job-market information, and job/career fairs. In addition, the Career Services Office serves as a link between UAFS students and employers in an effort to provide applicable work experience by way of cooperative education and internship opportunities prior to degree completion. The Career Services Office website allows students to access job listings, post resumes, and send resumes to prospective employers. Career Services is located on second floor of the Smith-Pendergraft Campus Center.

Student Success

The Student Success program offers a wide array of academic courses and services to assist students in achieving basic levels in mathematics, reading, writing, computer literacy, and study skills appropriate for university work and to complement their academic aspirations and performances. This program assists students whose education has been interrupted or delayed and those who need additional, basic-skill competencies to qualify for admission to a degree/certificate program.

Gordon Kelley Academic Success Center

The concern of UAFS for the individual student is reflected in the Gordon Kelley Academic Success Center, which provides programs designed to meet individual student needs not met through the general curriculum. Supplemental materials, free group tutoring for many UAFS courses, core-skills instruction, motivational programs, and learning programs are all provided to encourage student success. Faculty members provide the supplemental materials, which may consist of class notes and sample tests, textbook-based CDs and DVDs, and additional forms of computer-aided instruction. Free group tutoring is provided for many UAFS credit courses. Time management, self-discipline, and motivational programs are provided for the student who wants to improve study skills and grades.

Learning programs focus on specific strategies to understand, retain, and apply new information, as well as traditional study skills techniques. Learning programs are individually designed to meet student needs and are free to any University student. The Gordon Kelley Academic Success Center is located in the Vines Building, room 202.

The Gordon Kelley Academic Success Center also provides academic support for students who are on academic probation. Individualized guided study and self-assessment instruments are used to develop a formal plan of action to succeed in college. Students taking advantage of this service will learn usable techniques for academic success.

Hours
Mon.-Thurs. 7:45 a.m. - 9:00 p.m.
Friday 7:45 a.m. - 5:00 p.m.
Saturday 9:00 a.m. - 1:00 p.m.
Sunday 1:00 p.m. - 6:00 p.m.
Student Support Services
www.uafs.edu/success/student-support-services  
(479) 788-7355

Student Support Services (SSS) is a federally funded program designed to assist students in achieving their goal of a baccalaureate degree at UAFS. Funded to serve 140 students, SSS offers services such as individualized academic and career advising, tutoring and group study sessions, improvement of time management and study skills, financial and economic literacy training, and assistance in applying for graduate school. Students also have the opportunity to participate in learning communities in which students take classes and form study groups together. Participants commit to the program until they graduate from UAFS with a baccalaureate degree. The SSS offices are located in Boreham Library rooms 206-209.

Records Office
www.uafs/records  
(479) 788-7230

The Records Office provides official student records and transcripts, processes graduation and registration forms, and provides student ID cards. The Records Office is located on the second floor of the Smith-Pendergraft Campus Center. Students can visit the Records Office or request many services via the website.

ENROLLMENT VERIFICATION

Students can print enrollment verifications 24/7 by using LionsLink. Verifications can be used for scholarship, student loans, or insurance purposes. The Records Office has authorized the National Student Clearinghouse to provide this service.

CHANGES IN STUDENT INFORMATION

It is the responsibility of all students to maintain their correct addresses, telephone number(s), and legal name and to report any changes in information promptly to the Records Office. Failure to do so may result in undeliverable registration notices, financial aid, invoices, invitations, and official correspondence.

The University considers information on file with the Records Office to be official. Forms for correcting student information are available from the Records Office and website. Legal documentation of a name change is required.

TRANSCRIPT INFORMATION
www.uafs/records/transcripts

The Records Office will accept academic transcripts by fax transmission only as a working (unofficial) document for advisement. An official transcript must be received from the sending institution for official evaluation and awarding of credit.

The Records Office will process a request from a student for a transcript to be sent from the University only when the request bears the signature of the student and the student ID number. This request may be presented in person, via LionsLink email, by fax, or by mail. There is no charge for transcripts. Official transcripts will not be released if there are any outstanding financial obligations to the University.

LIONS ID CARD
www.uafs/records/lions-id-cards

The Lions ID card is the official identification card of UAFS. It is issued to staff, faculty, currently enrolled UAFS students, and affiliates of the University. There is no charge for the first Lions ID card, but a fee will be charged for any subsequent replacement cards.

The Lions ID card provides admission to University sponsored social, cultural, athletic, and recreational events. The card also serves as the Boreham Library card, Fitness Center pass, security clearance for email logon, and is necessary to print at all University computer labs. It is also required for any student who uses the counseling center, the dental hygiene clinic, or the Powell Student Health Clinic. At the cardholder’s option, the Lions ID card may also be used as a declining balance card to pay for various goods and services on campus and at participating off-campus vendors through the Lions Cash program. Contact the Records Office for terms and conditions.

Reserve Officer Training Corps

The Reserve Officer Training Corps (ROTC) offers programs at UAFS for interested students. Students may take the ROTC program through the U.S. Air Force or the U.S. Army. The ROTC programs prepare men and women for careers as professional military officers.

Army ROTC students will take all MILS courses at UAFS. Air Force ROTC student will complete all AERO courses at UA Fayetteville. Scholarships and financial assistance are available for interested, qualified students.
The freshman and sophomore courses may count for elective hours for non-scholarship ROTC students with no military obligation. The advanced courses (junior- and senior-level) are available to students who meet specific requirements and prepare students for the responsibilities of a commissioned officer. For further program information, contact the UAFS Army ROTC office at (479) 788-7522 or the UA Fayetteville Air Force ROTC office at (479) 575-3651. Interested students can coordinate the ROTC courses with their programs of study at UAFS. Students register for the AERO and MILS ROTC courses with UAFS Student Advisement and Career Planning.

Testing Center
www.uafs.edu/testing/tests
(479) 788-7682

The Testing Center offers the following services: COMPASS and computer-literacy placement tests, CLEP testing, Challenge Exams, chemistry and foreign language placement exams, individual make-up tests for UAFS students and exam-proctoring for students taking classes at other institutions. Advance arrangements must be made with the Testing Center. Please see the “Tuition and Fees” section for associated costs.

The Residual ACT is offered once a month, except July and November. The PRAXIS, NLN PAX, Miller Analogies Test, TOEFL, LSAT, GRE Subject Tests, NOCTI, and PSB Health Occupations Aptitude Examination are scheduled at various times during the year. Students may contact the Testing Center or visit the website for further information on these services.

The Testing Center is located on the second floor of the Smith-Pendergraft Campus Center, room 205.

Testing Center Hours
Mon.-Thurs. 8 a.m. - 6 p.m.
Friday 8 a.m. - 5 p.m.

Upward Bound
www.uafs.edu/success/upward-bound-classic
www.uafs/success/upward-bound-mathscience
(479) 788-7119 Upward Bound Classic
(479) 788-7103 Upward Bound Math/Science

Upward Bound Classic and Upward Bound Math/Science challenge students to develop the essential skills, study habits, discipline, and attitudes necessary for success in high school and college. The mission of Upward Bound Classic is to prepare and motivate high school students to pursue and complete a baccalaureate degree. Similarly, the mission of Upward Bound Math/Science is to help students recognize and develop their potential to excel in math and science and to encourage them to pursue postsecondary degrees in math and science. Each program serves 50 students in grades 9-12. Participants commit to the program until graduation from high school and participate in both an academic-year component and a summer-academy program.

Boreham Library
http://www.uafotsmith.edu/library
(479) 788-7200

Boreham Library continues a long tradition of excellent service to the University community. The library staff strives to be at the cutting edge in using new technologies and resources. Specialized services such as reference by email, a convenient copy center, and desktop productivity software on computer workstations are all offered by the library. The library is a gathering place for students during the school year, offering a convenient place to study and to work on group or individual projects.

Boreham Library provides extensive electronic resources to students and other users both in the library and via the Internet. It maintains database licenses for over 88 electronic databases such as Lexis Nexis, BioOne, and EbscoHost. Databases cover many subject areas and provide full-text for over 24,000 journals. Additional electronic resources include a collection of over 22,000 electronic books. Students and faculty can do research and reading from workstations in the library or elsewhere on campus, and from any computer connected to the Internet.

The library also maintains a full range of traditional collections. There are over 88,000 book volumes, 300 hundred current periodical subscriptions, eight newspaper subscriptions, over 5,000 audiovisual titles, and 60,000 microforms. Special collections include the Pebley Center for Arkansas Historical and Cultural Materials and the Foundation Center Grants Collection.

Books, articles, documents, and other items not available locally may be requested through the library's
interlibrary loan system. Document delivery can be provided by Internet, mail, and fax. As a convenient feature for students, the library’s Electronic Reserves module allows on and off-campus access to articles, class notes, homework solutions, and other materials.

One of the library’s goals is to educate users by helping them acquire the information literacy skills which will enable them to find, use, and evaluate information in all formats. Boreham Library offers a variety of instructional programs and services designed to improve library skills for the university community.

The library building is open regularly when classes are in session, and many library resources are available online on a 24 hour basis.

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Vacation and intersession hours may vary and are posted in advance.

Any UAFS employee or student may check out materials from the Boreham Library, the Fort Smith Public Library, or the Scott Sebastian Regional Library using a campus ID card. A current UAFS ID card also entitles the holder to apply for an ArkLink Statewide Library Card. Holders of the ArkLink card can borrow and use materials from most of the college and university libraries in Arkansas.

**UAFS Lions Bookstore**

Located in the Smith-Pendergraft Campus Center, the UAFS Lions Bookstore stocks the required textbooks for all classes offered on the UAFS campus, as well as a variety of supplies, University souvenirs, clothing, snacks, and miscellaneous items. The bookstore also offers a textbook rental program and a selection of e-textbooks.

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Students are entitled to a full refund on textbooks through the first week of class for any reason, with a valid receipt. Students are also entitled to a full refund on textbooks through the first 30 days of class if the class is dropped and the student presents a valid receipt and drop form. This 30 day return policy applies ONLY to the Fall and Spring semesters. See store for additional return information.

Book buyback is conducted year round in the bookstore. However, the best time to get the most money for books is at the end of every semester (finals week). When the bookstore is purchasing books for resale (for the next semester), students will receive 50% cash back of purchase price. See store for additional details.

Textbook and store information can also be found on the UAFS Lions Bookstore website at http://uafortsmith.bncollege.com.

Textbooks and other resources are also available at off-campus locations.

**Student ADA Services**

[www.uafs.edu/ada](http://www.uafs.edu/ada)  
(479) 788-7577

UAFS seeks to make every effort to offer equal educational opportunities for all students. To ensure a total university experience for students with disabilities, UAFS provides reasonable accommodations and services to students who have physical, emotional, and/or learning disabilities. The underlying philosophy of the program is to provide support, where possible, that will maximize each student’s opportunities for academic success.

Working in partnership with the student, the Student ADA Services coordinator will develop an individualized plan for services which may include academic advisement and accommodations in testing and instruction. A student with disabilities may present validation of the disability and request services by contacting the Student ADA Services coordinator at (479) 788-7577.

Registration with Student ADA Services is a separate process from the application for admission to the University. In order to be considered for accommodations, a student must first submit verification of the condition based on Student ADA Services’ guidelines and meet with the Student ADA Services coordinator to discuss accommodation requests.

UAFS is committed to a policy of ensuring that no otherwise qualified individual with a disability is excluded from participation in, denied the benefits of, or subjected to discrimination in University programs.
or activities due to his or her disability. The University is fully committed to complying with all requirements of the Americans with Disabilities Act of 1990 (ADA), Rehabilitation Act of 1973 (Section 504), and the ADA Amendments Act of 2008, and to providing equal educational opportunities to otherwise qualified students with disabilities. Any student who believes he or she has been subjected to discrimination on the basis of disability, or has been denied access or accommodations required by law, shall have the right to file a grievance. To obtain a copy of Services for Students with Disabilities brochure, which includes application information and the grievance procedure, contact the Student ADA Services Office at (479) 788-7794, or (479) 788-7577, or visit our website for a printout.

Family Educational Rights and Privacy Act (FERPA)

NOTIFICATION OF STUDENTS’ RIGHTS

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

1.) The right to inspect and review the student’s college education records within 45 days from the day the University receives a request for access. Students should submit to the registrar written requests that identify the record(s) they wish to inspect. The registrar 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 registrar, the registrar shall advise the student of the correct official to whom the request should be addressed.

2.) The right to request the amendment of the student’s education records that the student believes are inaccurate or misleading. Students may ask the UAFS to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.

If UAFS decides not to amend the record as requested by the student, the student will be notified of the decision and advised of his or her 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.

3.) The right to consent to disclosures of personally identifiable information contained in the student’s education records, except to the extent that FERPA authorizes disclosure without consent. UAFS 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 UAFS in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom UAFS has contracted as its agent to provide a service instead of using UAFS 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.

Upon request, UAFS also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

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

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-4605

Directory Information as defined by the U.S. Department of Education means information contained in an educational record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. Students may request UAFS not release directory information by completing the proper form and submitting it to the Records Office, on the second floor or the Smith-Pendergraft Campus Center. Directory information at UAFS includes name, address, major field of study, degrees and awards received, participation in officially recognized activities and sports, weight and height of members of athletic teams, telephone listing, electronic mail address, photograph, date and place of birth,
dates of attendance, grade level, enrollment status (i.e., undergraduate or graduate; full- or part-time), honors received and most recent educational agency or institution attended.

It is important to note that the institution, at its sole discretion, designates what is considered “directory information,” as well as what is released in each circumstance.

Additionally, educational records and personal information may be released in the following circumstances:

• Judicial subpoena of records, upon condition that the UAFS makes a reasonable effort to notify the student in advance of the release of records.

• Emergency situations, if knowledge of personal information is necessary to protect the health and safety of a student or other person(s).

UAFS’s Expectation of Students

UAFS is a learning community committed to academic excellence and to fostering a learning climate that encourages full development of its students. UAFS students are active partners in the learning process, and they accept final responsibility for their own learning and academic success. The University provides people, programs, services, and facilities that promote student success. In return, the University expects all students to demonstrate learner, University, and community responsibility.

Academic Readiness

UAFS expects students entering college-level credit courses to meet current reading, writing, and mathematics skill levels for those courses. These skill levels promote students’ success. Skill levels are measured by standardized placement tests. UAFS provides opportunities for students to improve their reading, writing, and mathematics skills if needed.

Computer Readiness

Students are expected to possess basic computer skills in word processing and spreadsheet applications, and accessing the Internet.

LEARNER RESPONSIBILITIES

Citizenship:
Be tolerant of others, including those with different ethnic, religious, political, and cultural beliefs, and encourage tolerance by others as well.
Refrain from and discourage behavior that threatens the freedom and property of others.
Help maintain a clean and safe campus.
Apply in-class learning to work and community activities.
Contribute to the University and community through volunteer services, voting, and meeting obligations fully and promptly.
Commit to being a positive contributor to the life of your University and community.

Goal setting:
Set learning goals.
Periodically evaluate progress toward achieving learning goals.
Adjust goals as needed.

Motivation:
Demonstrate a desire to learn.
Meet with faculty and advisors on a regular basis.
Commit to act in ways that promote intellectual growth, acquisition of new knowledge, skills and interests, emotional strength, and physical well-being.
Make academic obligations a priority.
Respect for self and others:
Be alcohol- and drug-free.
Be courteous when working with faculty members and classmates during classes, labs, or other University activities.
Live a healthy lifestyle.
Maintain good personal hygiene.

Readiness to learn:
Be prepared to acquire and apply new skills and information.
Contribute in class by asking questions and offering comments that add to the discussion.

Study skills:
Attend classes regularly and punctually, and turn in all assignments on time.
Manage time for study, class preparation, work, and personal commitments; spend two to three hours in out-of-class study for each class hour.
Recognize main ideas; take and organize notes from lectures and class discussions.
Follow directions and practice active listening. Think critically.
Stay current by getting information on missed work and unanswered questions.
Create and participate in a variety of student learning groups.
Successfully complete multiple choice, essay, and other types of tests.

Understand University operations:
Learn and fulfill all requirements for selecting or changing programs of study.
Learn and abide by University policies, including those on academic dishonesty and absenteeism.
Use the University library, academic success center, and other academic support services.
Keep records of progress toward meeting course and program requirements.
Participate in University programs that foster academic, social, and cultural enrichment.

LionsLink Email
LionsLink email is used as the official means of communication between UAFS officials (including faculty) and students. All students are expected to check their LionsLink account frequently to stay current with UAFS communications.

Registration
Students must be advised and register during designated advising and registration periods published on the University website. Registration is accomplished through the University Web-registration system, with the faculty advisor, or with a professional advisor in Student Advisement and Career Planning. For additional information, go to the UAFS website and select “Registration Calendar” under My UAFS.

All first-time college students, readmitted, and transfer students with fewer than 13 credit hours must attend a New Student Orientation (NSO) program to learn about the University and to register for courses.

Students are responsible for planning their programs of study and meeting course, grade, and graduation requirements. Prior to registration, students are required to meet with their assigned advisor during the designated advising period each semester to review policies and degree requirements. Ultimately, it is the responsibility of students to be informed of all regulations and requirements for a degree from UAFS and to monitor progress toward a successful university experience.

College Hours/Course Load
A semester hour is earned when students satisfactorily complete class work to which they devote the equivalent of one hour per week for sixteen weeks. In laboratory courses, it is necessary to spend more time for each semester hour of credit. Students may carry up to 18 hours in the fall or spring semester without special permission; however, the average is 15. No more than seven hours in a single summer term and no more than a total of 14 hours in one summer will be allowed without special permission. Special permission for additional hours must be obtained from the appropriate dean.

Prerequisite/Corequisite Course Requirements
Prerequisite and corequisite courses are designed to prepare students to meet the requirements of a specific
course. In general, the minimal qualifying grade for successful completion of a prerequisite course is a grade of “C”. Students should refer to program information requirements for a specific degree plan. A student will be required to withdraw from a class if the minimum grade requirement was not met in the prerequisite course.

Corequisite courses must be taken concurrently.

### Student Success Courses

Students who place into student success courses are conditionally accepted and will be required to demonstrate academic progress to continue their enrollment. Students must enroll in student success courses each semester until they successfully complete the required courses with a grade of “C” or better. Students who are in their second attempt at a student success course will be required to participate in a success plan. Unsuccessful attempts are those that result in a grade of D, F, or W. Students who have failed to pass a particular student success course twice may have limitations on course enrollment. Students must complete all student success courses before enrolling in upper level coursework.

UAFS provides support services for students including group tutoring, success workshops, drop-in math and writing labs, computer-aided tutorials and software, and guided study assistance on how to learn specific course content. Faculty maintain office hours so students can get individual help beyond the classroom. Students are encouraged to take advantage of these services.

### Classification of Students

The student’s classification is based on the total number of college-level semester hours earned at UAFS and accepted in transfer from other colleges and universities, regardless of whether the courses involved are applicable to the student’s major or degree plan. Students are expected to complete all lower-level course requirements prior to reaching senior status.

- **Freshman**: 1-29 semester hours
- **Sophomore**: 30-59 semester hours
- **Junior**: 60-89 semester hours
- **Senior**: 90 or more semester hours

### Transcripts

Official transcripts of a student’s work at UAFS may be obtained from the Records Office in accordance with federal guidelines. Official transcripts cannot be released if there are any outstanding financial obligations to the University.

1. Transcripts are issued only at the written request of the student or appropriate institutions and officials. A transcript request form is available to be downloaded at [www.uafortsmith.edu/Records](http://www.uafortsmith.edu/Records). Requests may be made in person, via LionsLink, by mail or fax and should include the name under which the student was enrolled, the student ID number, date of birth, dates of attendance at UAFS, name and address of the person or institution to which the transcript is to be sent, as well as the student’s signature. Telephone requests are not accepted.

2. Official transcripts of the student’s complete permanent record are issued on security paper with the embossed seal of the University and stamped signature of the registrar.

3. Transcripts which have been presented for admission or evaluation of credit become the property of UAFS as a part of the student’s permanent record and are not reissued. Transcripts from other institutions, if needed, must be obtained directly from the original issuing institution.

### College Credit for Non-traditional Education

UAFS, recognizing that learning can be obtained outside the traditional classroom situation, awards college credit for non-traditional education experiences, provided evidences are properly validated and the University offers a course in the area in which the non-traditional learning took place.

A student may receive credit at UAFS through the Advanced Placement Program (AP), the College Level Examination Program (CLEP), challenge exams, and military service training. Credit from any combination of the sources is limited to one-half of the total credit required to complete a technical certificate or certificate of proficiency; credit should not exceed a maximum of 30 semester hours for an associate or bachelor’s degree.
College credit for AP and CLEP scores will not be posted on an academic record until the student has successfully completed at least six semester credit hours of work in residency. Credit awarded for non-traditional education will appear on the student’s permanent record as earned credit only, without any indication of grades or quality points. Credit posted as general transfer for the institution may not always apply to specific, degree-program requirements.

Limited military credit will apply for academic course credit. All military credit will be evaluated by UAFS. CLEP and AP credit granted by any other accredited institution and posted on an official transcript will transfer to UAFS. CLEP credit will not be posted if the student has begun the course.

If a student earns CLEP or AP credit as well as traditional credit for the same course, the most recent credit earned will be included and former credit will be excluded on the transcript.

• **Advanced Placement (AP).**

UAFS participates in the Advanced Placement (AP) program of the College Entrance Examination Board and has authorized credit and/or placement for students who present qualifying scores in certain courses.

UAFS will grant credit for the AP program based on the following placement scores:

<table>
<thead>
<tr>
<th>UAFS COURSE</th>
<th>MINIMUM AP SCORE</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States History I or II</td>
<td>3</td>
</tr>
<tr>
<td>(HIST 2753 or HIST 2763)</td>
<td></td>
</tr>
<tr>
<td>United States History I and II</td>
<td>4</td>
</tr>
<tr>
<td>(HIST 2753 and HIST 2763)</td>
<td></td>
</tr>
<tr>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>(POLS 2753)</td>
<td></td>
</tr>
<tr>
<td>Beginning French I and II</td>
<td>3</td>
</tr>
<tr>
<td>(FREN 1304 &amp; FREN 1314)</td>
<td></td>
</tr>
<tr>
<td>Beginning German I and II</td>
<td>3</td>
</tr>
<tr>
<td>(GERM 1304 &amp; GERM 1314)</td>
<td></td>
</tr>
<tr>
<td>Beginning Spanish I and II</td>
<td>3</td>
</tr>
<tr>
<td>(SPAN 1304 and SPAN 1314)</td>
<td></td>
</tr>
<tr>
<td>Calculus I (MATH 2804)</td>
<td>3</td>
</tr>
<tr>
<td>Calculus AB</td>
<td></td>
</tr>
<tr>
<td>Calculus I and II (MATH 2804, 2854)</td>
<td>3</td>
</tr>
<tr>
<td>Calculus BC</td>
<td></td>
</tr>
<tr>
<td>College Chemistry I and II</td>
<td>4</td>
</tr>
<tr>
<td>(CHEM 1403/1401 and 1413/1411)</td>
<td></td>
</tr>
<tr>
<td>College Physics I (PHYS 2803/2811)</td>
<td>3</td>
</tr>
<tr>
<td>Physics B</td>
<td></td>
</tr>
<tr>
<td>College Physics I and II (PHYS 2803/2811 and 2823/2831)</td>
<td>3*</td>
</tr>
<tr>
<td>University Physics I (PHYS 2903/2911)</td>
<td>4</td>
</tr>
<tr>
<td>Physics C: Mechanics</td>
<td></td>
</tr>
<tr>
<td>University Physics I and II (PHYS 2903/2911 and 2923/2931)</td>
<td>4**</td>
</tr>
<tr>
<td>Physics C: Electricity &amp; Magnetism</td>
<td></td>
</tr>
<tr>
<td>Freshman English I (ENGL 1203)</td>
<td></td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td>3</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td></td>
</tr>
<tr>
<td>Freshman English I and II (ENGL 1203/1213)</td>
<td>4</td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td></td>
</tr>
<tr>
<td>English Language and Composition</td>
<td></td>
</tr>
<tr>
<td>Freshman English I and II (ENGL 1203/1213)</td>
<td>4***</td>
</tr>
<tr>
<td>English Literature and Composition</td>
<td></td>
</tr>
<tr>
<td>English Language and Composition</td>
<td></td>
</tr>
<tr>
<td>Biological Science I (BIOL 1153/1151)</td>
<td>4</td>
</tr>
<tr>
<td>General Psychology (PSYC 1163)</td>
<td>3</td>
</tr>
<tr>
<td>Music Appreciation (MUSI 2763)</td>
<td>3</td>
</tr>
<tr>
<td>Music Theory I (MUSI 1223)</td>
<td>4</td>
</tr>
<tr>
<td>Statistics (STAT 2503)</td>
<td>3</td>
</tr>
</tbody>
</table>

*Must enroll and complete PHYS 2823/2831 with a “C” or better to receive credit.

**Must enroll and complete PHYS 2923/2931 with a “C” or better to receive credit.

***Student may submit writing samples to the head of the English, Rhetoric, and Writing department (contact the department for guidelines before submitting the sample). Upon evaluation, a student may be awarded additional literature general education credit.

• **College Level Examination Program (CLEP).**

Students who complete the subject-area examinations of the College Level Examination Program (CLEP) with satisfactory scores may be granted credit toward a degree at UAFS. When testing in courses required by the major or minor, students must have approval from the college in which they are majoring to count the hours earned from CLEP toward graduation. CLEP credit may be awarded to those students who: (1) have met the minimum score requirement set by the University, (2) need the credit to satisfy the general education or elective requirements, (3) have not yet begun the course. Exams must be taken and scores received by the Records Office before the student submits a graduation application. CLEP exams may not be retaken within a six-month period per College Board policy.
Official score reports are received from the College Entrance Examination Board or the Educational Testing Service. Inquiries should be directed to the Testing Center, which administers the examination. To register for a CLEP exam, please contact the Testing Center at (479) 788-7682 to schedule an appointment and for exam cost information. Credit is offered in the following CLEP subjects:

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>SCORE</th>
<th>HRS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPOSITION AND LITERATURE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Composition Modular*</td>
<td>55/66</td>
<td>3/6</td>
</tr>
<tr>
<td>American Literature</td>
<td>58/68</td>
<td>3/6</td>
</tr>
<tr>
<td>English Literature</td>
<td>57</td>
<td>3</td>
</tr>
<tr>
<td>French Language</td>
<td>56/59</td>
<td>8/11</td>
</tr>
<tr>
<td>German Language</td>
<td>55/60</td>
<td>8/11</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>56/63</td>
<td>8/11</td>
</tr>
<tr>
<td>MATHEMATICS AND SCIENCES</td>
<td></td>
<td></td>
</tr>
<tr>
<td>College Algebra</td>
<td>52</td>
<td>3</td>
</tr>
<tr>
<td>Calculus</td>
<td>60</td>
<td>4</td>
</tr>
<tr>
<td>Biology</td>
<td>50</td>
<td>4</td>
</tr>
<tr>
<td>Chemistry</td>
<td>55</td>
<td>8</td>
</tr>
<tr>
<td>Precalculus</td>
<td>60</td>
<td>5</td>
</tr>
<tr>
<td>SOCIAL SCIENCES AND HISTORY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Government</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History I</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>U.S. History II</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td>50</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Psychology</td>
<td>55</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Sociology</td>
<td>59</td>
<td>3</td>
</tr>
<tr>
<td>BUSINESS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial Accounting</td>
<td>54</td>
<td>3</td>
</tr>
<tr>
<td>Introductory Business Law</td>
<td>52</td>
<td>3</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>54</td>
<td>3</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>54</td>
<td>3</td>
</tr>
</tbody>
</table>

* Essay Required. All students taking the Freshman College Composition test for credit at UAFS must include the writing essay section of the test, which will be provided by and scored by the English Department of the University.

Credit is awarded on the basis of DANTES Subject Standardized Tests in the same subject where CLEP credit is awarded by UAFS. Scored requirements for DANTES credit are the same as those for corresponding CLEP credit. DANTES general exam scores are not accepted.

- **Challenge Examinations.**
  In courses for which no CLEP examination is available, UAFS may grant credit on the basis of examinations administered by the department in which the credit is to be awarded. A Challenge Exam must be taken before beginning the course and after payment of the Challenge Exam fee. If a specific course is not listed, a student may contact the department chair of the course to determine if a Challenge Exam is appropriate and available.

- **Military Credit.**
  Active duty personnel and veterans may request evaluation of their validated military service training, including military service schools and USAFI courses. The recommendation of the American Council on Education, A Guide to the Evaluation of Education Experiences in the Armed Services, will be used in evaluating military service school training. A certified true copy of the veteran's separation papers (DD 214) and official transcript from the appropriate branch of service should be submitted to the Records Office.

  Information on enlisted soldiers and veterans whose basic active service dates fall on or after October 1, 1981, may be obtained as follows. Army: request an Army-American Council on Education registry transcript, AARTS Operation Center, Ft. Leavenworth, Kansas 66027-5073; Navy or Marine Corps: request a Sailor or Marine American Council on Education registry transcript from NETPDTC, Navy College Center, Code N2A5, 6490 Saufley Field Road, Pensacola, FL 35209-5204; Air Force: request an official transcript from the Community College of the Air Force from CCAF/RRR, 130 West Maxwell Boulevard, Maxwell AFB, AL 36112-6613.

  Military credit will be evaluated as general transfer hours for the institution. Limited military credit will apply for academic course credit. Military credit will be evaluated by the individual College to apply for degree-program requirements.

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**Adding Courses/Late Registration**

To ensure maximum opportunity for success, students should register for class before the first scheduled class meeting of each term. However, late
registration and/or class changes may be authorized through the first week of classes upon approval of the College dean.

Wait-List Courses

If a course has reached maximum capacity during registration, a student may place themselves on the wait list for the course. Failure to follow the following rules may result in the student being dropped from wait-listed courses:

1. Students may not register for one section of a course and be placed on a wait-list for another section.
2. Students may not wait-list more than one section of a course.
3. Students may not wait-list courses offered at the same time as a course in which they are already registered.
4. Students must meet all prerequisites or corequisites for a wait-listed course.
5. Students with registration holds may not be moved into their wait-listed courses.

The student will be enrolled in the course if space becomes available and must verify enrollment in the course by checking LionsLink. If the student no longer wishes to be enrolled or wait-listed in the course, the student must officially withdraw from the course prior to the start of the term for a full refund.

Auditing Courses

Students who audit courses must be officially admitted to the University and pay the regular tuition and fees for the course. Those who audit courses will receive a grade of “AU.” An auditing student may drop a course or be dropped by a faculty member following normal withdrawal procedures any time during the withdrawal period and receive a grade of “W.” Audited courses are not eligible for financial aid.

Ideally, students who wish to audit a course should declare their intentions when they enroll. Students may change from audit to credit status or credit to audit status through the fifth day of the fall or spring semester. Summer terms and off-schedule courses will follow a prorated time period. No change will be allowed after the fifth day of the term.

Individual faculty members will determine the degree of participation of students auditing a course.

Repeating Courses

A student may repeat a course taken at UAFS regardless of whether credit hours were previously earned. In every case, no more hours can be earned than would be received from one successful enrollment. If a student reenrolls for credit, an “E” (excluded from GPA) will mark the original repeated course. The most recent enrollment is designated by “I” (included in GPA). For repeated UAFS courses, only the grade earned during the most recent enrollment is computed in the cumulative grade point average. All courses are included as attempted hours for financial aid. Please refer to the Acceptance of Transfer Credit section of this catalog for information about repeating transfer courses.

Withdrawal from Classes

Students may withdraw from courses prior to the start of the fall, spring, and summer terms by the LionsLink Web-registration process or through an advisor with a Change of Schedule form and received by the Records Office. Once the semester or term has started, students who wish to withdraw from a class or change classes are governed by the following policy:

1. Withdrawals through the official reporting day are not recorded on the student’s permanent record. However, any withdrawal on the first class day or after will be counted as attempted hours for financial aid purposes.
2. During first week of the fall and spring semesters, students will receive a 100% tuition refund for a dropped course only if another course is simultaneously added on the same change of schedule form. Any course(s) dropped without a corresponding add will be refunded according to the published refund policy.
3. After the official reporting day:
   a. Students are required to obtain the signatures of their advisor, faculty member teaching course to be dropped, and a financial aid representative on the Change of Schedule form in order to withdraw.
   b. Students withdrawing from a credit course prior to 5 p.m. on Friday of the twelfth week (or the
equivalent) of the fall or spring semester will receive a “W” on their permanent records.
c. Summer term students withdrawing from a credit class prior to 5 p.m. on Friday of the fourth week of the five-week term in which they are enrolled will receive a “W” on their permanent record.

Failure to attend and/or pay tuition does not constitute official withdrawal.

Students who are on financial aid or are receiving a scholarship should check with the Financial Aid Office prior to withdrawing from a class.

An appeal of the tuition and fee policy, drop dates and late payment fee must be made in writing to the Registrar no later than the last day of classes of the term in question. Appeals must demonstrate extenuating circumstances that prevented the student from adhering to the specific withdrawal dates and deadlines in the registration calendar, and must include documentation in support of the appeal. Only the student may file an appeal on his/her own behalf.

Attendance

Students are expected to attend all classes. After an unavoidable absence because of illness or an emergency, students must take the responsibility for contacting faculty members to make up missed work.

Each faculty member’s specific attendance policy will be distributed with other course information at the beginning of each semester. It is the student’s responsibility to know the policy and comply.

When absences exceed the number allowed by the faculty of the class, he or she has the authority to give the student a grade of “F” at the end of the semester or to drop the student from the class within the withdrawal period by the following procedure:
1. The faculty member notifies the student of his or her attendance status.
2. The student is given the opportunity to discuss his or her status with the faculty member.
3. If attendance is subsequently unsatisfactory, the faculty may drop the student from the class by completing the withdrawal notice and filing the form with the Records Office.

This procedure does not remove the primary responsibility of the student for taking official withdrawal action.

Students dropped by a faculty member receive a “W” through the twelfth week of a regular semester and the fourth week of a summer five week term.

Withdrawals will end on Friday of the twelfth week of the regular semesters and the fourth week of the five-week summer terms and other five-week courses. Courses which do not correspond to these time frames will be handled on a prorated basis.

Absence Due to University Sponsored Events

Students engaged in sanctioned extracurricular activities in which they are representing the University should be excused from class and be allowed to make up work without penalty. Students are responsible for all material covered and for any class activities missed during the absence. Students are required to contact each of his/her instructors at least one week prior to the absence to discuss requirements for completing missed assignments. Exceptions to this policy will be handled by the appropriate academic dean, with the provost being the final arbiter.

Academic Honesty

UAFS is committed to helping students attain the highest level of academic achievement. That achievement is predicated on a foundation of scholastic integrity in all aspects of students’ academic work. This absolute standard of academic honesty lies at the heart of any pursuit of learning and the award of any degree or certificate. All students, faculty, and staff of UAFS are responsible for understanding and abiding by the academic honesty policy. The University supports faculty and staff in the good faith application of these policies as they conduct their official duties.

This policy is only one element of the University’s commitment to academic honesty; students will find this institutional value, and the practice of scholastic integrity, reflected in many ways in all University programs and services.

Academic dishonesty in any form, including using unauthorized materials, information, or study aids in any academic exercise; plagiarism; forgery; falsification of records; unauthorized possession of examinations; any and all other actions that may improperly affect
the evaluation of a student’s academic performance or achievement; and the assistance of others in any such act, is forbidden.

A faculty member who has proof that a student is guilty of academic dishonesty may take appropriate action, up to and including, assigning the student a grade of “F” for the course and suspending the student from the class. The “F” will be the final grade and the student may not withdraw from the course with a “W”. A description of the incident and the action taken will be reported to the appropriate dean and will be placed in the student's file in the Records Office.

The student may appeal either the finding of academic dishonesty or the penalty, or both, to the Academic Integrity Committee within three (3) business days of notification. Appeal forms may be obtained from their advisor. Upon appeal, a student will be allowed to continue in class until the appeal is adjudicated. The Academic Integrity Committee acts as arbitrator in such situations, presenting its findings and recommendation to the provost for review.

In cases of repeated offenses, the provost may take appropriate action, up to and including permanent suspension from the University, or solicit the recommendations of the Academic Integrity Committee. A copy of such action will be placed in the student's file in the Records Office.

Repeat incidents of academic dishonesty could result in the assignment of a grade of “FX” on the transcript, clearly indicating the failing grade was the result of academic dishonesty.

Grade Reports

Mid-term and final grades for each semester are accessible on the student’s UAFS LionsLink. Students can review and print unofficial copies of their current grades and transcripts through LionsLink. Only the final grade is posted on the official transcript. Refer to Transcript section for information on obtaining an official transcript.

Grades and Grade Points

UAFS uses the following system of grading:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Average</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Passing</td>
<td>1</td>
</tr>
<tr>
<td>AU</td>
<td>Audited</td>
<td>0</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawed</td>
<td>0</td>
</tr>
<tr>
<td>IP</td>
<td>In-progress</td>
<td>0</td>
</tr>
<tr>
<td>F</td>
<td>Failing</td>
<td>0</td>
</tr>
<tr>
<td>FX</td>
<td>Failing-Dishonesty</td>
<td>0</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
<td>0</td>
</tr>
</tbody>
</table>

AU, IP, CR, and W are disregarded in calculating grade point averages; the Student Handbook includes detailed instructions for computing both semester and cumulative grade point averages.

For regulations concerning auditing, see the Auditing section in this catalog.

GPA DEFINITIONS

Cumulative GPA: GPA for all coursework completed at UAFS.

Term GPA: GPA for all coursework in any specified term.

IN-PROGRESS GRADE

At the end of any semester, a faculty member may assign a grade of “IP” if extenuating circumstances have prevented the student from completing all course requirements. An “IP” grade is appropriate ONLY in situations where the student has completed at least 75 percent of the course requirements, based on the professional judgment of the faculty member. The faculty member shall make a professional judgment, on a case-by-case basis, concerning the efficacy of assigning an “IP” grade.

If a grade of “IP” is assigned, the faculty member will make a written contract with the student, list work to be completed, and provide a specific date for completion of the coursework. The faculty member will file the contract with the Records Office.

If a final grade has not been assigned by the faculty member by the end of the next spring or fall semester, the Records Office will automatically change the “IP” grade to an “F.” However, if the contract on file in the Records Office has a later completion date, that contract date is the final deadline for changing an “IP” to an “F.” The in-progress grade contract cannot be extended beyond the original date without permission of the college dean.
**GRADE PETITIONING**

A student who believes an error has been made in the assignment of a final grade must contact the faculty member to resolve the issue(s). Should the student remain dissatisfied, he or she may appeal to the department chair/program director (if applicable) and then to the dean of the College in which the course originates. If the dean disagrees with the faculty member’s response, the dean will refer the matter to the Academic Integrity Committee. The dean will respond to the student in writing within seven days of receipt of the written appeal from the student, either denying the appeal or indicating that the appeal has been referred to the Academic Integrity Committee. If the dean has upheld the faculty member’s response, the student may petition the Academic Integrity Committee and should do so no later than the last day of the next regular (fall or spring) semester. Failure to act within that time period disqualifies the student from further pursuit of the matter. The Academic Integrity Committee shall be convened within 14 business days of receipt of the petition. The committee shall submit its recommendation to the provost no later than 21 business days from receipt of the petition. The provost will notify the student of the decision. The decision of the provost is final. Grade petition forms are available from an advisor.

**ACADEMIC GRIEVANCE PROCESS**

A student with a grievance concerning a faculty member, a method of instruction, or dismissal from a program should follow the informal and formal grievance procedures described in the respective program documents, if applicable.

For those programs without specific written grievance procedures, the student should attempt to resolve the matter informally first with the faculty member, then with the department chair or program director, and then with the appropriate dean. The formal grievance process is used when the informal procedures have been exhausted with no satisfactory resolution. For a formal hearing, the student must submit a request, in writing, to the appropriate dean within 14 business days of the incident. The request must contain:

1. The specific injury to the student
2. The date(s) which the injury(ies) occurred
3. Name(s) of person(s) involved
4. Measures taken by the student to rectify the particular incident being grieved
5. Any other pertinent information

The dean will review the formal request to determine its merit and to ensure all avenues for resolution have been exhausted by the student. An answer/decision will be issued to the student in writing within seven business days of receiving the formal grievance. If the student wishes to pursue the matter further, he or she must submit a written request within three business days to the provost for the matter to be reviewed. The provost will issue a decision in writing within seven business days. The decision of the provost is final.

Matters other than instruction should be taken to the vice chancellor for student affairs.

**Academic Progress**

The purpose for establishing standards of satisfactory academic progress is to identify students whose progress toward degree or certificate completion is below average in terms of grade point average. The intent is to provide assistance to raise the GPA to an acceptable standard for graduation.

**MINIMUM STANDARDS**

A student must maintain a minimum cumulative grade point average of 2.00 to maintain satisfactory academic progress.

Evaluation will be made at the end of each fall, spring, and combined summer terms to determine the student’s progress for GPA requirements and academic standing (see “Academic Probation” or “Academic Suspension” below).

For repeated UAFS courses, only the grade earned during the most recent enrollment is computed in the cumulative GPA. An “IP” (In Progress) grade is not calculated into the GPA until the end of the contract period.

Enrollment in a course with a prerequisite requires a grade of “C” or better in the prerequisite course(s) before enrolling in the advanced course.

Students who do not maintain satisfactory academic progress are encouraged to use all available resources in the Gordon Kelley Academic Success Center (Vines 202, 788-7675), Student Advisement and Career Planning, and faculty to reestablish an acceptable GPA.
ACADEMIC EARLY ALERT

A student who has been identified as having an academic concern in a course may be sent an academic early alert notice by faculty member. At that time, the student is expected to contact their faculty member and/or advisor to address their academic performance. Students may also visit the Gordon Kelley Academic Success Center for help.

ACADEMIC PROBATION

Students will be placed on academic probation when their cumulative GPA falls below 2.00 at the close of the fall, spring, or combined summer terms. Students will remain on academic probation as long as the semester GPA is 2.00 or higher and cumulative GPA is less than 2.00. Credit hours are not limited. However, students will be required to meet with their advisor to review academic probation and suspension policies. Students on probation will be restricted from web registration and from taking any full online or hybrid courses. Students will be considered in good standing when their cumulative GPA is 2.00 or higher.

ACADEMIC SUSPENSION

Students will be placed on academic suspension if, while on academic probation, they do not achieve both a 2.00 semester and cumulative 2.00 GPA at the close of the fall, spring, or combined summer terms.

If suspended, the following guidelines will apply:

First Suspension:
Option 1. Students may sit out one major term, fall or spring, and return without appeal.
Option 2. Students may register in the following major term for a maximum of 13 credit hours to include SAS 0201 Bridge to Success Seminar.

If the student does not make a 2.00 semester GPA and pass the SAS 0201 with a grade of C or better, the student will be suspended for one major term and cannot appeal. Students will be restricted from web registration and from taking any full online or hybrid courses, eight-week, or weekend courses.

Second Suspension:
Students will not be allowed to attend for two full consecutive terms, a fall and a spring semester.

Third Suspension:

Students will be placed on Academic dismissal. Academic dismissal is permanent unless readmission is granted by the Admission Appeals Committee. Appeals will only be reviewed for extreme medical/life crisis situations if documented and past academic history is supportive.

The policies related to academic probation and suspension are separate and distinct from those related to financial aid probation and suspension. Each appeal is reviewed by its own separate committee. Students with a semester or cumulative GPA below 2.00, who intend to utilize financial aid grants or loans, should visit with a Financial Aid Officer.

Academic Clemency

Act 1000 of 1991 requires that state colleges and universities establish policies for academic clemency for undergraduate students. UAFS has a policy whereby students who have not been enrolled in a college or university for a five-year period may petition to have grades and credits earned prior to that period removed from consideration in their cumulative grade point average. Students should contact their advisor for petition procedures. These classes will still be calculated in the number of attempted hours for satisfactory academic progress for financial aid.

Academic clemency applies only while attending UAFS and may not be accepted at another institution.

Academic clemency does not affect eligibility for athletic participation. VA students should contact the UAFS VA representative for information regarding academic clemency and any potential effect on veteran benefits.

Student Responsibilities for Copyrighted Materials

It is the policy of the University of Arkansas System and its institutions to follow the United States Copyright Law and other statutes that protect the rights of copyright owners. All UAFS faculty, staff, and students should use copyrighted materials within the confines of the statutes and seek guidance from the Office of the Vice Chancellor for Finance in determining fair use. Copyrighted materials include, but are not limited to, computer software, audio and
video recordings, photographs, and written material. Violators are subject to University discipline, including suspension, as well as legal liability, even if the work did not contain a written copyright notice. It is also a violation to use a campus computer to illegally copy, display, or distribute copyrighted materials, such as software, MP3 files, or MPEG files.

Use of commercial (for-profit) copyshops may not relieve an individual of liability for infringement. It would depend on:
- whether the copying was fair use, and
- whether the copyshop pays royalties.

Online courses often contain copyrighted materials that the faculty member is using under the TEACH Act of 2002. Students may use these materials within the online course, but may not save, alter, or redistribute them to those not enrolled in the course.

Dean’s List

A student whose name appears on the Dean’s List is recognized for high scholastic achievement. The Dean’s List comprises full-time students who have completed 12 (or more) college-level hours and who have earned at least a 3.50 grade point average (GPA) for the semester. Part-time students who have completed six hours or more concurrently also become eligible upon completion of 12 cumulative semester hours, if they have both semester and cumulative GPAs of 3.50 or above. The names of students who have requested their directory information to remain confidential will not appear on the Dean’s List.

Honors International Studies Program

The Honors International Studies Program provides an enriched educational opportunity for bright, motivated first year students with strong academic backgrounds, including a high school GPA of 3.5 or higher and ACT composite scores at or above 27. Admission is competitive and the number of applicants accepted is limited.

The Honors International Studies Program consists of a unique honors general education curriculum with international focus, exciting travel study classes, service opportunities, independent study project options, and provides a participant the opportunity to be identified as a cum honoree graduate of the University. Students selected for the program will receive an honors scholarship in addition to any other scholarships they may have been awarded. Students progressing satisfactorily will have the cost of the domestic Maymester study trip covered by the program. Additional funding may be available for the international Maymester trip. Students are also encouraged to participate in additional travel-study opportunities when practical.

The Honors International Studies Program requires 28 credit hours to include honors required courses and honors general education core courses. This program may coordinate required hours with the student’s major requirements. Honor students will be advised by their faculty advisor along with the Honors Director to ensure course selections will satisfy both the major and honors requirements.

Honors Curriculum - 28 total hours
HONR 1101 Introduction to Honors International Studies
HONR 3713 Honors Junior Research Seminar
HONR 4803 Honors International Studies Capstone
Honors Maymester domestic and international travel
Honors General Education Core Requirements

This program is designed to deliver a rich international studies-based honors curriculum with the addition of no more than seven credit hours outside the regular degree requirements. Students enrolled in the Honors Program will fulfill the same general education requirements for the degree program in which they are enrolled, but will do so through honors courses which are targeted to this special population of students and which emphasize the international focus of the program. Students in the program are strongly encouraged to acquire proficiency in a second language.
Degree Program Requirements

A student’s degree program requirements are those specified in the catalog in effect at the time of declaration of the major and/or minor. If original courses are deleted, the student may be required to complete specific classes to replace the deleted courses in the degree program.

If a student is not enrolled for at least two consecutive semesters (excluding summer terms), the student will be required to reenter under the program requirements of the catalog in effect at the time the student returns to the University. The student is responsible for staying informed of program requirements and changes.

A student’s degree requirements are those specified in the catalog in effect at the time of declaration of major and/or minor. A student must complete graduation requirements under provisions of a catalog no more than seven years old at the time of graduation. If a student does not complete graduation requirements within the seven year period, he/she will be required to meet the graduation requirements of the current catalog. Please note that many types of financial aid, including Pell Grants and scholarships, may be exhausted prior to seven years. Contact Financial Aid for additional information.

A student must apply for graduation and have the degree posted within one year of the completion of all degree requirements.

Graduation Requirements

It is the primary responsibility of students to know the graduation requirements of their academic programs, including all University requirements. Students must satisfy all graduation requirements and required college-level work. Students must apply for graduation by August 1 for fall graduation and December 15 for spring graduation. A commencement ceremony is held twice per year to recognize degrees and awards.

A student cannot receive the same degree in the same discipline of study twice. The highest degree will be announced and all certificates and degrees will be listed in the commencement program.

To earn a baccalaureate degree from UAFS, students must satisfy the following requirements:

- Complete a minimum of 120 unduplicated semester hours, including the major and general education requirements. Students seeking a Bachelor of Arts degree must complete requirements for a minor in a discipline different from their major. Academic programs and colleges may specify additional and/or more specific requirements.

- A minimum of a 2.00 cumulative GPA on all work attempted at the University and a minimum 2.00 cumulative GPA on all courses in the major and/or minor areas as indicated on individual degree plans. Academic programs and colleges may specify additional and/or more specific requirements.
Satisfy General Education Core Requirements. Individual majors may require specific general education core requirements. Each student must graduate with a minimum grade of “C” in the six hours of required freshman English composition courses. Only six hours of freshman English composition courses may be used to satisfy degree requirements.

No student will be allowed to graduate with a grade of “D” in more than 15 hours of credit earned and presented to meet requirements for a degree. This 15 hours of credit includes any grade of “D” earned at this institution and/or transferred (if approved by provost) from another institution. Academic programs and colleges may have more specific or stringent requirements.

A minimum of 45 hours of upper-level (3000-4000) courses in completion of degree requirements is required.

A minimum 50% of the credit hours in the major and minor areas must be completed in residency.

A minimum of 30 of the last 36 hours in completion of degree requirements must be completed in residency.

Students who transfer to the University may present for degree credit no more than 68 hours of lower division transfer coursework (1000-2000 level). The number of upper division transferable courses may vary by college and program.

No more than a total of 30 hours of credit for non-traditional education may apply to a degree. These hours are not counted in hours of residency.

A maximum of four, one-credit-hour physical education activity courses may be applied toward graduation. A maximum of three credit hours of computer applications courses may be applied toward graduation. A maximum of eight hours (in combination) of music performance classes, music class instruction, and/or private instruction courses may be applied toward graduation requirements for non-music majors.

Colleges may have specific criteria for meeting baccalaureate degree graduation requirements. Students should follow the appropriate degree requirements of the individual academic program or college.

Successful completion of the degree program is not based solely on the number of credit courses, but requires demonstration of specific professional knowledge, skills, and behaviors. Once the student has begun the program, periodic evaluation will assess progress. Failure to progress satisfactorily might result in a student being removed from the program or denied graduation.

To earn an associate degree from UAFS, students must satisfy the following requirements:

Complete a minimum of 60 semester hours and meet the requirements for a degree as outlined in the requirements of the individual College. Colleges may specify additional and/or more restrictive program requirements.

A minimum of a 2.00 cumulative GPA on all work attempted at the University. For the associate of applied science, students must maintain a 2.00 GPA in the specific major as indicated on individual degree plans and a 2.00 cumulative GPA.

Satisfy General Education Core Requirements. Individual majors may require specific general education core requirements. Each student must graduate with a minimum grade of “C” in the six hours of required freshman English composition courses. Only six hours of freshman English composition courses may be used to satisfy degree requirements.

No more than a total of 30 hours of credit for non-traditional education may apply toward a degree. These hours are not counted in hours of residency.

For an associate of arts or associate of general studies degrees, the last 15 hours of work must be completed in residency. If a student has completed 30 or more hours at UAFS, six of the last 15 hours may be transferred from another institution. For an associate of applied science degree, at least half of the credit hours of the
major field and last 15 hours of work must be completed in residency.

- The associates of arts degree meets the Arkansas Department of Higher Education guidelines. Students must meet the general education core requirements and electives must be selected from the general education course disciplines that are 1000 and 2000 level courses as indicated on the associate of arts degree plan.
- For the associate of general studies, students must complete 28/29 hours of the general education core requirements and 1000 and 2000 elective courses. A maximum of four, one-credit-hour physical education activity courses may be applied toward graduation. A maximum of three credit hours of computer applications courses may be applied toward graduation. A maximum of eight hours (in combination) of music performance classes, music class instruction, and/or private instruction courses may be applied toward graduation requirements for non-music majors. Upper-level (3000 and 4000) courses may not be used to satisfy degree requirements.
- Only one associate of arts and/or associate of general studies degree may be earned. Students who have previously graduated with an associate degree at UAFS can complete a second associate degree in a different discipline. An additional 15 hours of courses beyond the first degree and towards the second, and completed after graduation with the first degree, is required in residency. All other requirements for graduation must be met. Two associate degrees may not be awarded concurrently.
- Successful completion of the degree program may not be based solely on the number of credit courses, but requires demonstration of specified professional knowledge, skills, and behaviors. Once the student has begun the program, periodic evaluations are used to assess progress. Failure to progress satisfactorily might result in a student being removed from the program or denied graduation.
- An associate degree and a baccalaureate degree may not be awarded concurrently. There must be at least one major term between degree awarded date for an associate degree and a baccalaureate degree.

To earn a technical certificate from UAFS, students must satisfy the following requirements:

- A minimum of a 2.00 cumulative GPA on all work attempted at the University and in the courses required for the technical certificate.
- A minimum of 15 hours of credit must be completed in residency.
- No student will be allowed to graduate with a grade of “D” in more than one course used to meet the requirements of the technical certificate; however, some colleges will not accept a grade of “D” in courses required for the technical certificate.

To earn a certificate of proficiency from UAFS, students must satisfy the following requirements:

- A minimum of a 2.00 cumulative GPA on all work attempted at the University and in the courses required for the certificate of proficiency.
- A minimum of 50% of course requirements for the certificate of proficiency must be completed in residency.
- No student will be allowed to graduate with a grade of “D” in more than one course used to meet the requirements of the certificate of proficiency; however, some colleges will not accept a grade of “D” in courses required for the certificate of proficiency.

EARNING A DOUBLE MAJOR WITHIN A BACCALAUREATE DEGREE

Students may earn a double major by completing degree requirements in two different fields within a single degree, a Bachelor of Arts (BA), or Bachelor of Science (BS), or Bachelor of Business Administration (BBA). Students wishing to pursue a double major must declare their intent after consultation with their faculty advisor and obtain approval by the dean(s) of the college(s) offering both majors. The student must deliver the declaration of double major form, with required signatures, to the Records Office before completion of 75 credit hours. The student must complete graduation requirements of both majors within the degree (a minimum of 30 unduplicated hours for the second major is required) and substitutions may not be used to fulfill the second major. A student with a double major will be required to complete a minimum of 154 hours. The second major may be completed simultaneously or
EARNING TWO BACCALAUREATE DEGREES CONCURRENTLY

Students wishing to complete courses in separate baccalaureate degrees are strongly encouraged to declare one degree as a major, the other degree as a minor and complete all required electives. Students may earn two baccalaureate degrees (e.g., a BBA and a BS) concurrently by completing degree requirements for both areas. Students wishing to pursue two degrees concurrently must declare their intent after consultation with their faculty advisor and obtain approval from the deans offering both degrees. The student must deliver the declaration of concurrent degrees form, with required signatures, to Records Office before completion of 75 credit hours. Only 12 hours of courses required by the first degree may be used to satisfy requirements of the second (in addition to the general education requirements). Earning two degrees will increase a student’s workload and take more time to complete.

RETURNING TO EARN AN ADDITIONAL BACCALAUREATE DEGREE

Students who have previously completed a baccalaureate degree may earn an additional baccalaureate degree at UAFS by meeting the following criteria:

1. Whether the first degree is awarded at UAFS or from another regionally accredited institution, the student must satisfy the degree requirements of the College major and the University residency requirements as described in the current Catalog.
2. The student must complete a minimum of 30 additional hours after completion of the first degree with at least a minimum of 50% of the credit hours in the major field in residency at UAFS. Courses completed for the first degree that satisfy the requirements for the second degree may be accepted as satisfying course requirements, but not as hours toward the residency requirement.
3. Students seeking to earn teacher licensure to complement a baccalaureate degree from an accredited institution must meet with the discipline-specific and education academic advisors to develop an individualized plan. This plan will list the specific discipline and education courses required for the student to complete the requirements of the additional degree and must be approved by the deans of both colleges. The approved plan must be on file with the Records Office. Methods courses in the discipline and education courses will be considered as courses in the major for the purposes of earning a second degree with teacher licensure. Licensure in such cases constitutes the completion of a second baccalaureate degree.

Academic honors are not awarded for the second degree.

MINOR REQUIREMENTS

Minors are required for students seeking a Bachelor of Arts degree. Only one minor is required for those students pursuing a double major within a B.A. Students pursuing other baccalaureate degrees may not be required to complete a minor, but may choose to do so. Students must select and complete requirements for a minor in a discipline different from their major. A minor will not exceed a maximum of 18 credit hours of theory and six hours of lab/practicum courses. A minor will include at least nine semester hours at the junior and senior level. Requirements for minors are found in the catalog under the particular discipline. The minor may include 6-8 hours of general education coursework. However, courses that are required of every baccalaureate degree-seeking student cannot be counted toward the minor. Although a course meets two different requirements, the course is counted only once in the total number of hours required for the degree.

Students wishing to pursue a minor must declare their intent after consultation with their faculty advisor. Students are permitted to declare a double minor. The student must deliver the Declaration of Major and/or Minor form, with required signatures, to the Records Office before completion of 75 hours.

ELECTIVE REQUIREMENTS

Students should select electives with approval of their advisor to complete the total credit requirements for graduation. The number of elective hours will vary by the specific degree. These courses should be chosen carefully either for the purpose of correcting deficiencies in the student’s educational background or to strengthen major programs through study in related
fields. An elective is defined as a course that does not constitute a part of the major area requirement and is not being used to satisfy a general education requirement. Not all courses may be used for elective credit hours so students must select electives carefully with advisor approval.

DEGREE AUDIT REVIEW

Students are responsible for following their degree plan carefully to ensure that all requirements are met. Students are encouraged to complete a degree audit with their advisor one year prior to graduation to make sure all coursework is in compliance with the graduation and degree requirements.

APPLICATION FOR GRADUATION

A student seeking a baccalaureate degree must meet with his/her faculty advisor to complete the graduation application. A student seeking an associate degree must meet with their advisor to complete the graduation application. All applications are then filed with the Records Office in partial fulfillment of graduation requirements. Upon receipt by the Records Office, a $30 graduation application fee will be charged for all bachelor and associate degrees and all technical certificates. The fee is due at that time and is good for one calendar year. A student who applies and pays the graduation application fee but fails to complete the degree during the intended semester will not be required to pay another fee provided program requirements are completed in that calendar year.

A student will be awarded a degree upon completion of program requirements. To ensure timely receipt of degree/certificate diplomas and participation in commencement, a student completing program requirements at the end of the spring semester and first summer term must apply by December 15; a student completing program requirements at the end of the fall semester and second summer term must apply by August 1.

A student who fails to complete the degree during the intended semester will be reviewed for graduation requirements for the next term. Any student who does not complete requirements in one calendar year must reapply for graduation. A completed graduation application is required before degree completion is noted on the student’s transcript.

Commencement ceremonies are held at the conclusion of the spring and fall semesters. A student who is scheduled to complete all program requirements (seven semester hours or less) by the end of the first or second summer term may choose to participate in either the previous spring commencement or the next fall commencement, but not both.

GRADUATION WITH ACADEMIC HONORS

The baccalaureate degree with honors will be conferred upon graduates who meet the criteria for honors recognition. All students meeting numerical criteria described below are eligible for consideration for cum laude based on the University’s cumulative GPA for all college-level work (student success courses and courses for which academic clemency has been granted are excluded). Graduation candidacy standings will be based on the overall cumulative college-level GPA to include all transfer work and University work, excluding those for the semester preceding graduation. Tentative honors recognition will be included in the commencement ceremony program. The official determination will be made upon evaluation of results including the final semester grades. University honors will be identified on the official transcript and diploma.

Graduation with University honors will be awarded in one of the following categories of praise: summa cum laude 3.9-4.00 GPA, magna cum laude 3.8-3.89 or cum laude 3.6 -3.79. This recognition requires a minimum of 62 credit hours in residency, including a minimum of 30 hours of the last 36 hours of credit and at least half of the credit hours in the major field in residency. These honors are awarded only for the first baccalaureate degree conferred. Students who graduate from another college or university with a baccalaureate degree and pursue a second undergraduate degree at UAFS are not eligible for honors.

No student subject to disciplinary sanctions for academic misconduct or disciplinary suspension at the University will be graduated with honors (cum laude, magna cum laude, or summa cum laude).

Guaranteed Eight-Semester Degree Program

UAFS is committed to the success and retention of students from the beginning of their program of study through graduation. Advisement, support services, and degree plan guidelines are available to assist students through their own degree completion and goals. Pursuant to ACT 1014 of 2005, qualified first-time,
full-time students with a declared major may elect to participate in the guaranteed eight-semester degree completion program to complete degree requirements in four academic years. Qualified students must enter as a first-year student in the fall semester, be registered by July 1, and register through new student orientation. The baccalaureate degrees that qualify for this program are listed below. The degree completion plans are listed in this catalog and on the institutional website. All first-time entering students must accept or waive the guaranteed eight-semester degree completion program when enrolling for the first term of study. Students must follow the degree plan and meet all requirements as outlined in the guaranteed eight-semester degree contract. The student accepts responsibility for monitoring his/her progress toward a degree and for making choices that will lead to graduation in four years. The contract and the degree plan must be signed and filed with the advisor. The official copy of the contract and degree plan must be filed in the Records Office prior to the first term of college.

Eligible students may participate in the guaranteed eight-semester degree completion program for the following baccalaureate degrees:

Accounting
Biology
Business Administration
Chemistry
Criminal Justice
Early Childhood Education
English
English w/ Teacher Licensure
Graphic Design
History
History w/ Social Studies
Teacher Licensure
Information Technology- Database Management
Information Technology- Networking
Information Technology- Programming
Information Technology-Web Developer

UAFS Alumni Association

The UAFS Alumni Association is an ever-growing network of more than 48,000 graduates living in all 50 states and several foreign countries. The Alumni Association serves to maintain the life-long relationship with the University and make the most of this network. The Alumni Association also provides the tools for alumni to stay in touch with classmates, works to facilitate professional contacts, and offers a variety of valuable programs and publications. Additional information on the Alumni Association can be found at www.uafsalumni.com.

Current students may be involved by joining the Student Alumni Association (SAA), or by participating in the UAFS events listed in the Traditions Book. Students who complete 26 traditions during their time at UAFS will be given special cords to wear at commencement.

Degree Requirements

UAFS requires 44 hours of general education courses for a baccalaureate degree. In compliance with the Arkansas Act 98 of 1989, UAFS has adopted the “State Minimum Core” of 35 hours plus an additional nine hours of general education baccalaureate core course requirements specified by individual College majors.

Students should consult the requirements for specific Colleges and programs when choosing courses to meet the University general education requirements.

General Education

CORE REQUIREMENTS

English Composition
(select a two-course sequence) – 6 hours

ENGL 1203 Freshman English I
ENGL 1213 Freshman English II
ENGL 1233 Honors Composition

RHET 2863 Advanced Composition

Speech – 3 hours

SPCH 1203 Introduction to Speech Communication

Mathematics (select one course) – 3 hours

MATH 1303 College Math
MATH 1403 College Algebra
MATH course with MATH 1403 as a prerequisite

Lab Science (select two courses) – 8 hours

BIOL 1153/1151 Biological Science/Lab
BIOL 1523/1521 Anatomy and Physiology I/Lab
BIOL 1533/1531 Anatomy and Physiology II/Lab
BIOL 2303/2301 General Botany/Lab
BIOL 2503/2501 General Microbiology/Lab
BIOL 2703/2701 General Zoology/Lab
CHEM 1303/1301 Chemical Principles/Lab
CHEM 1403/1401 College Chemistry I/Lab
CHEM 1413/1411 College Chemistry II/Lab
GEOL 1253/1251 Physical Geology/Lab
PHSC 2653/2651 Earth Science/Lab
PHSC 2713/2711 Physical Science/Lab
PHYS 2784 Physics Concepts and Applications
PHYS 2803/2811 College Physics I/Lab PHYS
PHYS 2823/2831 College Physics II/Lab
PHYS 2903/2911 University Physics I/Lab
PHYS 2923/2931 University Physics II/Lab

**Fine Arts (select one course) – 3 hours**
ART 2863 Survey of Art History I
ART 2873 Survey of Art History II
HUMN 2563 Humanities Through the Arts
MUSI 2763 Music Appreciation

**Humanities (select one course) – 3 hours**
ENGL 2783 American Literature to 1865
ENGL 2793 American Literature 1865 to present
ENGL 2803 World Literature to 1750
ENGL 2813 World Literature 1750 to present
PHIL 2753 Introduction to Philosophy

**History/Government (select one course) – 3 hours**
HIST 2753 United States History I
HIST 2763 United States History II
POLS 2753 American National Government

**Social Sciences – 6 hours**
*(select two courses from different areas)*
ANTH 2803 Cultural Anthropology
ECON 2803 Principles of Macroeconomics
ECON 2813 Principles of Microeconomics
GEOG 2753 World Regional Geography
HIST 1123 Civilizations of the World to 1500
HIST 1133 Civilizations of the World since 1500
HIST 2753 United States History I*
HIST 2763 United States History II*
POLS 2753 American National Government*
PSYC 2763 General Psychology
SOCI 2753 Introduction to Sociology
* if not used to meet History/Government requirement

**Additional General Education**

**Bachelor Core by Colleges – 9 hours**
See individual College major requirements.

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**Total Hours**
44 Total Hours

Specific majors may require students to take higher-level or stipulated courses in any area. See degree plans. A course may only be used once.
UAFS provides quality education to meet the variety of educational needs of individuals within its communities. UAFS provides bachelor’s and associate degrees in academic, career, and occupational programs. UAFS offers select degrees through cooperative arrangement with institutions invited to be part of our University Center. The University provides technical and managerial training, supplies background courses essential to effective job performance, and enables adults to pursue courses needed to increase current skill levels.

Courses are offered year-round in the day, evenings, and through alternative delivery options, such as weekend and online classes. Students may enroll full time or part time. Programs are available through the following colleges:

**COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY**

The College of Applied Science and Technology’s degree programs are designed to prepare students to be productive and valuable members of the workforce. Within the college, students can complete the bachelor of applied science degree, bachelor of science degrees in organizational leadership and animation technology, associate of applied science degree, a technical certificate or certificate of proficiency. In addition, the Center for Business and Professional Development offers customized training and retraining for those already employed or seeking to advance their careers.

By utilizing a dynamic, hands-on approach to instruction, the College of Applied Science and Technology creates educational opportunities for students that positively impact their potential for employment as well as the economic development of the community, state, and region.

**COLLEGE OF BUSINESS**

The primary mission of the College of Business is to prepare undergraduate students to succeed in a changing and global workplace through an integrated, practice-oriented curriculum that cultivates entrepreneurial skills and attitudes. The college approach rests upon a foundation of proven competencies in business, leadership, and communications. A bachelor of business administration with majors in accounting, business administration, or marketing is offered through the College of Business.

**COLLEGE OF EDUCATION**

The College of Education is committed to excellence in teacher preparation through a combination of classroom instruction and field service experiences with partner school districts. Within the College of Education, candidates can earn baccalaureate degrees in early childhood education and middle-level education, and an associate of applied science with a concentration in early childhood education. Also, certificate programs are provided for persons working in the preschool setting. Students majoring in secondary education complete their degrees in the college of discipline with the teacher licensure portion in the College of Education under the guidance of the coordinator of secondary education and the teacher licensure officer.
COLLEGE OF HEALTH SCIENCES
The College of Health Sciences offers bachelor of science degrees in nursing and imaging sciences. Associate degrees are offered in dental hygiene, nursing, radiography, and surgical technology. A technical certificate is offered in practical nursing.

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES
The College of Humanities and Social Sciences offers baccalaureate degrees in history, history with social studies teacher licensure, music, music education (vocal and instrumental), psychology, graphic design, studio art, criminal justice, and theatre.

COLLEGE OF LANGUAGES AND COMMUNICATION
The College of Languages and Communication offers baccalaureate degrees in English, English with teacher licensure, media communication, rhetoric and writing, Spanish, and Spanish with teacher licensure. In addition, students may acquire minors in English, media communications, rhetoric and writing and Spanish. Students may also pursue an associate of arts degree or an associate of general studies degree.

COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS
The College of Science, Technology, Engineering & Mathematics offers baccalaureate degrees in biology, biology with life/earth science teacher licensure, chemistry, chemistry with physical/earth science teacher licensure, mathematics, mathematics with teacher licensure, and information technology. Baccalaureate degrees in mechanical engineering and electrical engineering are offered in association with the College of Engineering at the University of Arkansas, Fayetteville. Students may also pursue an associate of applied science degree in information technology.

UNIVERSITY CENTER
UAFS’s University Center provides select degrees in cooperation with other institutions. (See “The University Center” section.)

University Learning Outcomes
University learning outcomes are knowledge and abilities that students need to enter any profession to be productive citizens in an ever-changing world, and to develop themselves as human beings and lifelong learners.

Academic programs establish goals, objectives, and assessments for six university learning outcomes. These goals form the cornerstone for the program-level assessment plan. The six university learning outcomes are measurable characteristics that UAFS graduates must have to successfully navigate an increasingly complex world. These learning outcomes are:
1. Analytical Skills - critical thinking skills to draw conclusions and solve problems.
2. Communication Skills - to communicate effectively with a variety of audiences in any setting.
3. Technological Skills - to use computerized tools to efficiently access, communicate, analyze, and evaluate electronic information.
4. Ethics - to recognize and analyze ethical dilemmas.
5. Quantitative Reasoning - to assign and use numbers, read and analyze data, create models, draw inferences, and support conclusions based on sound mathematical reasoning.
6. Global and Cultural Perspectives - to reflect upon cultural differences and their implications for interacting with people from cultures other than their own.

Program Degree Plans
The program plan provides a course guide for students. Students who define their major early in their college careers are more likely to attain their career goals in a timely manner.

DECIDED MAJOR AT UAFS
Students who have chosen a major should follow the program plan for that major to complete their bachelor’s degree, associate degree, technical certificate, and/or certificate of proficiency.

UNDECIDED MAJOR AT UAFS
Students who have not determined a major field of study but are considering a bachelor’s degree, should follow the associate of arts degree. Undecided students must carefully choose courses understanding that the longer they wait to choose a major, the greater the chance specific courses taken may NOT apply to the ultimate major.
The College of Applied Science and Technology’s degree programs are designed to prepare students to be productive and valuable members of the workforce. Within the college, students can complete the bachelor of applied science degree, associate of applied science degree, a technical certificate or certificate of proficiency. In addition, the Center for Business and Professional Development offers customized training and retraining for those already employed or seeking to advance their careers.

By utilizing a dynamic, hands-on approach to instruction, the College of Applied Science and Technology creates educational opportunities for students that positively impact their potential for employment as well as the economic development of the community, state, and region.

The College of Applied Science and Technology offers the majors and degrees indicated below.

**Bachelor of Applied Science (BAS) Degree**
**Bachelor of Science in Animation Technology**
**Bachelor of Science in Organizational Leadership**

**Associate of Applied Science (AAS) Degree**

The associate of applied science (AAS) degree provides the student a degree in a technical/professional area and is intended for students who plan to enter the workforce after completion of program requirements. The AAS degree is awarded in the following areas:

- Administrative Professional and Office Technology
- Computer-Aided Drafting and Design
  - Architectural
  - Digital Design
  - General CAD
  - GIS/GPS Mapping
  - Mechanical
- Electronics Technology
- General Technology
- Legal Assistance/Paralegal
- Workforce Leadership

**Technical Certificates**

Certificate programs provide the student a concentration in a specific technical/professional area. These programs are intended for students who plan to enter the workforce after the completion of the program or who are currently working and want to upgrade their skills. Hours earned in most certificate programs are acceptable toward the associate of applied science degree.

- Automotive Technology
- Computer-Aided Drafting and Design
  - Architectural
  - Digital Design
  - General CAD
  - GIS/GPS Mapping
  - Mechanical
- Computer Maintenance
- Diesel Technology
- Industrial Electronics and Electrical Maintenance

- Legal Assistance/Paralegal
- Workforce Leadership
Office Assistant  
Welding  
Workforce Leadership

CERTIFICATES OF PROFICIENCY  
Automotive Driveability  
Automotive Drivetrain  
Automotive Undercar  
Arc Welding  
CADD-Architectural  
CADD-Digital Design  
CADD-Entry Level  
CADD/GIS/GPS Mapping  
CADD-Mechanical  
Computer Service Technician  
MIG Welding  
Office Assistant  
TIG Welding  
Welding Layout and Fabrication  
Workforce Leadership

CENTER FOR BUSINESS AND PROFESSIONAL DEVELOPMENT  
The Center for Business and Professional Development is a premier provider of credit instruction; non-credit customized training, professional development opportunities, and consulting for businesses and professionals in UAFS’s service area. For over 25 years we have been helping individuals and businesses move to higher levels of learning necessary to compete in today’s challenging global environment. The Center’s experienced and knowledgeable faculty members work with companies to identify, develop, and deliver cost effective training focused on the organization’s required outcomes.  
The Workforce Leadership credit program was developed as a joint venture between the Center for Business & Professional Development and the Fort Smith Manufacturing Executives Association and can lead to an Associates of Applied Science degree.

WESTERN ARKANSAS TECHNICAL CENTER  
The Western Arkansas Technical Center (WATC) is an area secondary center that provides high school juniors and seniors in a six county area of western Arkansas with the unique opportunity to earn university credit while still in high school. The curriculum serves as an extension of the high school and provides students with hands-on experiences in a variety of programs. WATC has three goals:  
1. Aid students in making a more informed career choice.  
2. Prepare students to enter the workforce upon high school graduation.  
3. Encourage students to continue their education after high school.  
Students can earn up to forty college credits and are able to apply these to meaningful exit points at the certificate, associate, and baccalaureate degree levels.  

Programs offered by the Western Arkansas Technical Center are as follows:  
Advanced Health  
Automotive Technology  
Computer-Aided Drafting and Design (CADD)  
Criminal Justice  
Early Childhood Education  
Electronics Technology  
Emergency Medical Technology  
Pre-engineering  
General Health (CNA)  
Graphic Design  
Information Technology  
Medical Office Assistant  
Pharmacy Technician  
Welding Technology

Bachelor of Applied Science Degree (BAS)  
The Bachelor of Applied Science (BAS) has been established to serve a growing population of students who have completed a technical career focus and obtained an Associate of Applied Science (AAS) degree. It recognizes the education associated with a variety of technical career paths and is designed to develop the professional management skills of the learner by providing core courses which help the learner better understand the work environment and the management of time, materials, and people. In addition, the BAS degree program provides upper-division elective coursework that may be career specific.  
The BAS degree articulates well with high school programs and specialized associate degree programs. For continued professional advancement, this degree
articulates with other programs, leading to advanced degree studies. Students may begin the Professional Studies courses and complete the pre-program requirements, if not already completed. Up to 80 hours of lower-level (1000- and 2000-level) coursework may be transferred into the BAS degree.

The University of Arkansas - Fort Smith collaborates with various community colleges across Arkansas to offer the BAS degree. Coursework is accessible through compressed video, the Internet, and on-site class meetings through these schools. For more information about this partnership, the degree, and/or for advisement, contact the BAS institutional representative the College of Applied Science at (479) 788-7768.

**PRE-PROGRAM REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>English composition 1</td>
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<tr>
<td>3</td>
<td>Speech 1</td>
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<td>Mathematics 1</td>
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<td>8</td>
<td>Science 1</td>
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<td>Fine Arts 1</td>
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<td>3</td>
<td>Humanities 1</td>
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<td>3</td>
<td>History/Government 1</td>
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<tr>
<td>6</td>
<td>Social Sciences 1</td>
</tr>
<tr>
<td>42</td>
<td>Career Block 4</td>
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80 Total Hours

**REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF APPLIED SCIENCE DEGREE PROGRAM**

**MAJOR CODE: 4100**

**Junior Year Fall Semester – 12 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>PRFS 3133 Policies and Ethics in the Workplace 2</td>
</tr>
<tr>
<td>3</td>
<td>PRFS 3143 Economic Analysis in the Workplace 2</td>
</tr>
<tr>
<td>6</td>
<td>Upper-level general education elective 3</td>
</tr>
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</table>

**Junior Year Spring Semester – 13 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>PRFS 3533 Workplace and Environmental Safety 2</td>
</tr>
<tr>
<td>3</td>
<td>PRFS 3833 Diversity in the Workplace 2</td>
</tr>
<tr>
<td>4</td>
<td>Upper-level technical elective 2 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td>Upper-level general education elective 3</td>
</tr>
</tbody>
</table>

**Senior Year Fall Semester – 10 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>PRFS 4033 Consensus Building and Continuous Improvement 2</td>
</tr>
<tr>
<td>3</td>
<td>PRFS 4433 Supervisory Total Quality Management 2</td>
</tr>
<tr>
<td>4</td>
<td>Upper-level technical elective 2 &amp; 3</td>
</tr>
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</table>

**Senior Year Spring Semester – 10 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>PRFS 4133 Project Management 2</td>
</tr>
<tr>
<td>3</td>
<td>PRFS 4633 Decision Making in Organizations 2</td>
</tr>
<tr>
<td>4</td>
<td>Upper-level technical elective 2 &amp; 3</td>
</tr>
</tbody>
</table>

125 Total Hours

At least 45 hours must be upper-level

*Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with this stipulation: mathematics – must take six hours of MATH 1403 or higher.

2. These courses are used to determine major courses in residency, see Graduation Requirements.

3. Elective courses. Consult with advisor. Nine hours of upper-level courses from general education areas and 12 hours of upper-level technical courses are required.

4. Career block, 42 hours: Approved AAS or AAT degree from an accredited institution with 42 hours of technical-professional coursework.

**Animation Technology**

The Bachelor of Science in Animation Technology (BSAT) prepares students to be practitioners and managers of a wide variety of computer graphics related jobs. It is designed for students who have completed an associate of applied science degree (AAS) or associate of applied technology (AAT) from an accredited institution with 44 hours of technical-professional coursework in computer aided drafting and design (CADD).

Students must complete an application to UAFS and must apply and be accepted into the animation technology program. Contact the College of Applied Science and Technology, Computer Aided Drafting
and Design Department for an application and additional details.

**ADMISSION REQUIREMENTS:**

1. Completion of all admission requirements to UAFS, including submission of official transcripts from any college(s) previously attended to the UAFS Records Office.
2. Submission of unofficial transcript from any college(s) previously attended to the director of the BSAT program. Transfer students or CADD graduates with four or more years past their graduation date will be required to present an e-portfolio.
3. Documentation of a minimum grade point average of 2.25 and a grade of “C” or better in all coursework that applies toward the BSAT.
4. Students must have completed an AAS or AAT from an accredited institution with 44 hours of technical-professional course work in CADD. Students with less than 44 hours of coursework in CADD will be considered for admission into the BSAT on a case by case basis.
5. Completion of application process into the BSAT program.

**PRE-PROGRAM REQUIREMENTS**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3 English Composition</td>
<td>1</td>
</tr>
<tr>
<td>3 Speech</td>
<td>1</td>
</tr>
<tr>
<td>3 Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>8 Lab Science</td>
<td>1</td>
</tr>
<tr>
<td>3 Fine Arts</td>
<td>1</td>
</tr>
<tr>
<td>3 Humanities</td>
<td>1</td>
</tr>
<tr>
<td>3 History/Government</td>
<td>1</td>
</tr>
<tr>
<td>6 Social Science</td>
<td>1</td>
</tr>
<tr>
<td>44 Career Block</td>
<td>4</td>
</tr>
</tbody>
</table>

79 Total Hours

**REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF SCIENCE IN ANIMATION TECHNOLOGY PROGRAM**

**MAJOR CODE: 4064**

**Junior Year Fall Semester – 13 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 BSAT 3084 3D Advanced Concepts</td>
<td>2</td>
</tr>
<tr>
<td>3 BSAT 3033 Motion for Applied Animation</td>
<td>2</td>
</tr>
<tr>
<td>6 Upper-level general education elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Junior Year Spring Semester – 11 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 BSAT 3043 Lighting and Rendering</td>
<td>2</td>
</tr>
<tr>
<td>5 Upper-level BSAT electives</td>
<td>2 &amp; 3</td>
</tr>
<tr>
<td>3 Upper-level general education elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Senior Year Fall Semester – 11 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 BSAT 3023 Digital Production Techniques</td>
<td>2</td>
</tr>
<tr>
<td>8 Upper-level BSAT electives</td>
<td>2 &amp; 3</td>
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</table>

**Senior Year Spring Semester – 10 Hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 BSAT 4044 Senior Capstone Project</td>
<td>2</td>
</tr>
<tr>
<td>6 Upper-level BSAT electives</td>
<td>2 &amp; 3</td>
</tr>
</tbody>
</table>

124 Total Hours

At least 45 must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog, with the following stipulation: mathematics - Math 1403 College Algebra or MATH with College Algebra as prerequisite. MATH 1453 Plane Trigonometry is required for the BSAT; may be used in career block requirement if not used to meet math general education requirements.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CADD Department and BSAT degree.

3. Elective courses. Consult with advisor. Nine hours of upper-level courses from general education areas and 19 hours of upper-level BAST courses are required.

4. Career block, 44 hours: Approved AAS or AAT from an accredited institution with 44 hours of technical-professional course work in CADD. Students with less than 44 hours of coursework in CADD will be considered for admission into the BSAT on a case by case basis.
Organizational Leadership

The Bachelor of Science in Organizational Leadership (BSOL) degree is a working-adult, degree-completion program, offered through flexible course scheduling on an accelerated basis and designed for individuals who have completed an associate degree from an accredited college or university.

The BSOL recognizes learning that can be obtained outside the traditional classroom situation. Up to 12 hours of college credit for nontraditional education experiences may be granted and can count toward lower-level electives. To receive this credit, students must enroll in LEAD 490V Special Topics: Leadership Application.

Credit for non-traditional instruction applies only to Organizational Leadership lower-level elective requirements and cannot duplicate any prior or required coursework. Up to 30 credits from non-classroom credit are allowed (AP, CLEP, Nontraditional education experiences - Leadership course, and military). Students may transfer up to 68 hours lower-level (1000 and 2000) coursework into the BSOL program.

BACHELOR OF SCIENCE (BS) DEGREE
PRE-PROGRAM REQUIREMENTS:

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 English composition</td>
<td>1</td>
</tr>
<tr>
<td>3 Speech</td>
<td>1</td>
</tr>
<tr>
<td>3 Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>8 Science</td>
<td>1</td>
</tr>
<tr>
<td>3 Fine Arts</td>
<td>1</td>
</tr>
<tr>
<td>3 Humanities</td>
<td>1</td>
</tr>
<tr>
<td>6 History/Government</td>
<td>1</td>
</tr>
<tr>
<td>9 Social Sciences</td>
<td>1</td>
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<tr>
<td>3 Computer Literacy</td>
<td>3</td>
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<tr>
<td>35 Lower-level Electives</td>
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79 Total Hours

REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF SCIENCE ORGANIZATIONAL LEADERSHIP PROGRAM

MAJOR CODE: 0201

Fall Semester – 9 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3 LEAD 3603 Foundations of Organizational Leadership</td>
<td>2</td>
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<tr>
<td>3 Communication requirement</td>
<td>2 &amp; 5</td>
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<tr>
<td>3 Additional degree requirement</td>
<td>2 &amp; 6</td>
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Spring Semester – 9 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 LEAD 3623 Professional Communication</td>
<td>2</td>
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<tr>
<td>3 History/Government requirement</td>
<td>2 &amp; 5</td>
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<tr>
<td>3 Additional degree requirement</td>
<td>2 &amp; 6</td>
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</table>

Summer Semester – 9 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Social Sciences requirement</td>
<td>2 &amp; 5</td>
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<tr>
<td>3 Additional degree requirement</td>
<td>2 &amp; 6</td>
</tr>
<tr>
<td>3 Additional degree requirement</td>
<td>2 &amp; 6</td>
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Fall Semester – 9 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 LEAD 4603 Leadership with Integrity</td>
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<tr>
<td>3 LEAD 4623 Transformational Leadership and Innovation</td>
<td>2</td>
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<tr>
<td>3 Additional degree requirement</td>
<td>2 &amp; 6</td>
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Spring Semester – 9 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 LEAD 4693 Dimensions of Organizational Leadership – Capstone</td>
<td>2</td>
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<tr>
<td>3 Professional Studies requirement</td>
<td>2 &amp; 5</td>
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<td>3 Additional degree requirement</td>
<td>2 &amp; 6</td>
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</table>

124 Total Hours
At least 45 hours must be upper level

*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with this stipulation: history/government – select 2 courses; social sciences – must take GEOG 2753 and select two additional courses.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Computer Literacy requirement, three hours. Select three hours from ITA 1003, 1051, 1101, 1201, 1251, MGMT 2103, or demonstrated competency.
4. Lower-level Electives, 35 hours. 1000 and 2000 level elective courses earned as part of the associate degree (excluding MATH 1203).
5. Communication requirement: Select three hours upper-level (3000-4000) RHET or SPCH course. History/Government requirement: Select three hours upper-level (3000-4000) HIST or POLS course; Social Sciences requirement: Select three hours upper-level (3000-4000) PSYC, SOCI or
ANTH course. Professional Studies requirement: Select any three hour PRFS course.

6. Additional degree requirements, 18 hours, all must be upper-level (3000-4000) courses. Consult with advisor. Select to ensure completion of 45 upper-level hours required for graduation.

**Associate of Applied Science Degree**

**Technical Certificate**

**Certificate of Proficiency**

UAFS’s career programs provide students the opportunity to study specific careers and enter the job market directly.

Each program has been designed with the assistance of a community advisory committee comprised of men and women currently working in the field who are well aware of the requirements and job potential in today’s market.

Career curricula are not intended to be transfer programs, although some of the career programs may lead to a bachelor’s degree through UAFS. Some of the career programs enable the student to gain valuable work experience in the community while taking courses.

If you are interested in a career program, contact a UAFS professional advisor for more information. Advisors can assist students with program entrance requirements, course selection and sequence, and job possibilities. Careful planning and course selection can be just as important as dedication in the classroom.

The following available programs lead to an associate of applied science degree, technical certificate and/or certificate of proficiency.

**Administrative Professional and Office Technology**

UAFS’s administrative professional and office technology degree program offers an associate of applied science, administrative assistant technical certificate and/or the office assistant certificate of proficiency. Students may select courses from three technical specialties: accounting assistant, human resource assistant, or medical office assistant. A student may receive one AAS degree in APRO.

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 4105**

**First Semester – 15 hours**

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<th>Course Title</th>
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<tr>
<td>3</td>
<td>APRO 1303</td>
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<tr>
<td>3</td>
<td>APRO 1103</td>
<td>Computer Input Technology</td>
<td>2</td>
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<td>3</td>
<td>APRO 1113</td>
<td>Career Management</td>
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<td>3</td>
<td>Selected option plan course(s)</td>
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**Second Semester – 15 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>APRO 1203</td>
<td>Administrative Office Procedures</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>APRO 1603</td>
<td>Electronic Bookkeeping I</td>
<td>2</td>
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<tr>
<td>3</td>
<td>ITA 1003</td>
<td>Computer Applications for the Knowledge Worker</td>
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<td>3</td>
<td>Selected option plan course(s)</td>
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**Third Semester – 15(16) hours**

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>APRO 1703</td>
<td>Electronic Office Applications</td>
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<td>3</td>
<td>APRO 2343</td>
<td>Professional and Office Communication</td>
<td>2</td>
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<tr>
<td>3</td>
<td>MATH 1303</td>
<td>College Mathematics or</td>
<td>2</td>
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<tr>
<td>1403</td>
<td>College Algebra</td>
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<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
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<td>2 &amp; 3</td>
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**Fourth Semester – 16 hours**

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<tr>
<td>3</td>
<td>APRO 2863</td>
<td>Academic Internship</td>
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<td>3</td>
<td>APRO 2923</td>
<td>Integrated Office Procedures Project</td>
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<td>APRO 2983</td>
<td>Emerging Office Technology</td>
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<td>3</td>
<td>SOCI 2753</td>
<td>Introduction to Sociology</td>
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<td>4</td>
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</table>

**Total Hours**

61/62
1. **General Education Core Requirements**, see Graduation Requirements section of this catalog. Select one English sequence and one lab science course.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a 2.00 cumulative GPA in these courses.

3. Select one of the following concentrations:

**ACCOUNTING ASSISTANT** 10 hours

**Conc. code: C009**

- 3 APRO 1653 Employee Benefits
- 3 APRO 2403 Electronic Bookkeeping II
- 3 APRO 2903 Professional Bookkeeping
- 1 ITA 1011 Quickbooks

**HUMAN RESOURCES ASSISTANT** 9 hours

**Conc. code: C010**

- 3 APRO 1653 Employee Benefits
- 2 LEGL 2162 Employment Law
- 3 APRO 2803 Human Resource Management for Administrative Professionals
- 1 ITA 1011 Quickbooks

**MEDICAL OFFICE ASSISTANT** 9 hours

**Conc. code: C011**

- 3 APRO 2853 Medical Insurance and Billing
- 3 APRO 2843 Medical Insurance Coding
- 3 HLTH 1473 Medical Terminology

**OFFICE ASSISTANT TECHNICAL CERTIFICATE**

**MAJOR CODE: 4106**

**First Semester – 15 hours**

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<th>Hours</th>
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<tr>
<td>3 APRO 1303</td>
<td>Workplace Computations</td>
</tr>
<tr>
<td>3 ENGL 1203</td>
<td>Freshman English I</td>
</tr>
<tr>
<td>3 APRO 1103</td>
<td>Computer Input Technologies</td>
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<td>3 APRO 1113</td>
<td>Career Management</td>
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30 Total Hours

*Notes:

1. Select course from the Associate of Applied Science option plans: Accounting Assistant, Human Resources Assistant, Medical Office Assistant.

**OFFICE ASSISTANT CERTIFICATE OF PROFICIENCY**

**MAJOR CODE: 4107**

**Second Semester – 15 hours**

<table>
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<td>3 ITA 1003</td>
<td>Computer Applications for the Knowledge Worker</td>
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<tr>
<td>3 ENGL 1213</td>
<td>Freshman English II</td>
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<tr>
<td>3 APRO 1203</td>
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15 Total Hours

*Notes:

1. Select course from the Associate of Applied Science option plans: Accounting Assistant, Human Resources Assistant, Medical Office Assistant.

**Automotive Technology**

The automotive programs train entry-level automotive technicians. Courses taken in the certificate programs may be applied to the automotive technical major for the general technology AAS degree program. Courses in the automotive technology program can lead to certification by the National Institute for Automotive Service Excellence.

The College of Applied Science and Technology also offers a technical certificate in Diesel Technology; see the Diesel Technology section in this catalog for certificate requirements.

**JOB OPPORTUNITIES**

Auto Technician
Engine Repairer
Driveability Technician
Heavy-line Technician  
Transmission Technician  
Engine Performance Technician  
Suspension and Steering Technician  
Brake and Front End Specialist

**GENERAL TECHNOLOGY**  
**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**  
**MAJOR CODE: 4030 CONC. CODE: CO13**

### First Semester – 14 hours

<table>
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<td>ATDI 1234 Theory and Maintenance</td>
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<tr>
<td>4</td>
<td></td>
<td>ATDI 1334 Braking Systems</td>
</tr>
<tr>
<td>3</td>
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<td>MATH 1303 College Mathematics or higher MATH</td>
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### Second Semester – 14 hours

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<tr>
<td>4</td>
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<td>ATDI 1354 Suspension and Steering</td>
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<td></td>
<td>ATDI 1434 Electrical Systems</td>
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<td></td>
<td>English composition requirement</td>
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<td>3</td>
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<td>SPCH 1203 Introduction to Speech Communication</td>
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### Summer Semester – 7 hours

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<tbody>
<tr>
<td>4</td>
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<td>ATDI 1584 Heating and Air Conditioning Systems</td>
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<td>English composition requirement</td>
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### Third Semester – 15 hours

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<tbody>
<tr>
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<td>ATDI 2434 Electrical Systems II</td>
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<tr>
<td>4</td>
<td></td>
<td>AUTO 1284 Automotive Engines</td>
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<tr>
<td>4</td>
<td></td>
<td>AUTO 1484 Emission Control Systems</td>
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<tr>
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### Fourth Semester – 12 hours

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<td>AUTO 2484 Emission Control Systems</td>
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<tr>
<td>4</td>
<td></td>
<td>AUTO 1384 Intro. to Manual Transmissions and Drivetrains</td>
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<td>Lab science requirement</td>
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62 Total Hours  
*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a 2.00 cumulative GPA in these courses.
3. Computer requirement. Select three credit hours from ITA 1003, 1051, 1101, 1201, or 1251.

**AUTOMOTIVE TECHNOLOGY TECHNICAL CERTIFICATE**  
**MAJOR CODE: 4003**

### First Semester – 16 hours

<table>
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<tbody>
<tr>
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<td>ATDI 1234 Theory and Maintenance</td>
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<tr>
<td>4</td>
<td></td>
<td>ATDI 1334 Braking Systems</td>
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<tr>
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<td></td>
<td>ATDI 1434 Electrical Systems</td>
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### Second Semester – 16 hours

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<th>Course</th>
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</thead>
<tbody>
<tr>
<td>4</td>
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<td>ATDI 1354 Suspension and Steering</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>AUTO 1484 Emission Control Systems</td>
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<tr>
<td>8</td>
<td></td>
<td>ATDI or AUTO electives</td>
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32 Total Hours  
*Note:
1. Select from ATDI or AUTO courses in consultation with advisor.

**AUTOMOTIVE DRIVEABILITY SPECIALIST CERTIFICATE OF PROFICIENCY**  
**MAJOR CODE: 4038**

<table>
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<tr>
<th>Hours</th>
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<th>Course</th>
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<tr>
<td>4</td>
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<td>ATDI 1234 Theory and Maintenance</td>
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<tr>
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<td></td>
<td>ATDI 1434 Electrical Systems</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>ATDI 1584 Heating and Air Conditioning Systems</td>
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<tr>
<td>4</td>
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<td>AUTO 1484 Emission Control Systems</td>
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16 Total Hours

**AUTOMOTIVE DRIVETRAIN SPECIALIST CERTIFICATE OF PROFICIENCY**  
**MAJOR CODE: 4036**

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<td>ATDI 1234 Theory and Maintenance</td>
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<tr>
<td>4</td>
<td></td>
<td>ATDI 1434 Electrical Systems</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>AUTO 1284 Automotive Engines</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>AUTO 1384 Introduction to Manual Transmissions and Drivetrains</td>
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16 Total Hours
AUTOMOTIVE UNDERCAR SPECIALIST
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4037

Hours
4 ATDI 1234 Theory and Maintenance
4 ATDI 1334 Braking Systems
4 ATDI 1354 Suspension and Steering
4 ATDI 1434 Electrical Systems I

16 Total Hours

Diesel Technology
TECHNICAL CERTIFICATE
MAJOR CODE: 4055

First Semester – 16 hours
4 ATDI 1234 Theory and Maintenance
4 ATDI 1334 Braking Systems
4 ATDI 1434 Electrical Systems I
4 WELD 1404 MIG Welding - Basic

Second Semester – 16 hours
4 ATDI 1354 Suspension and Steering
4 ATDI 1584 Heating and Air Conditioning
4 ATDI 2434 Electrical Systems II
4 DIES 2154 Introduction to Diesel Systems

32 Total Hours

Computer-Aided Drafting and Design (CADD)

The computer-aided drafting and design program (CADD) offers an Associate of Applied Science degree (AAS) with five concentrations: Architectural, Digital Design, GIS/GPS Mapping, General CADD, and Mechanical. A student may receive one AAS degree in CADD. Certificates of proficiency and technical certificates are available with the courses being applicable to the degree program.

PROGRAM AND GRADUATION REQUIREMENTS

CADD courses taken more than four years prior to entering the College of Applied Science and Technology will be evaluated on an individual basis by the department head and/or college dean.

To graduate with any CADD degree/certificate the student must:
1. Maintain a minimum GPA of 2.25 and a grade of at least a “C” for each course in the College of Applied Science and Technology based on the last grade earned in each course.
2. Maintain an overall GPA of 2.25.

JOB OPPORTUNITIES

Animation Developer GIS/GPS Mapper
Architectural Drafter Solid Modeling Specialist
Engineering Technician Video Production
Mechanical Drafter/Designer

CADD - ARCHITECTURAL
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4004 CONC. CODE: CO21

First Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>1 CADD 1001 CAD Concepts and Applications</td>
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<tr>
<td>4 CADD 1234 Engineering Graphics I</td>
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</tr>
<tr>
<td>4 CADD 2744 CAD-2D Design Level I</td>
<td>2</td>
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<tr>
<td>3 MATH 1403 College Algebra</td>
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<tr>
<td>3 English composition requirement</td>
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Second Semester – 14 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4 CADD 1284 Engineering Graphics II</td>
<td>2</td>
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<tr>
<td>4 CADD 2764 CAD-2D Design Level II</td>
<td>2</td>
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<tr>
<td>3 MATH 1453 Plane Trigonometry</td>
<td></td>
</tr>
<tr>
<td>3 SPCH 1203 Introduction to Speech Communication</td>
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Summer Term – 7 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 CADD 2644 3D Visualization</td>
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Third Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4 CADD 2634 Architectural Materials</td>
<td>2</td>
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<td>4 CADD 2654 Architectural CAD Applications</td>
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<td>4 Lab science requirement</td>
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<td>3 Social sciences requirement</td>
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</table>
### CADD - DIGITAL DESIGN

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 4004**  **CONC. CODE: C022**

#### First Semester – 15 hours

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<td>2</td>
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<tr>
<td>4 CADD 1234</td>
<td></td>
<td>2</td>
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<tr>
<td>4 CADD 2744</td>
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<td>2</td>
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<tr>
<td>3 MATH 1403</td>
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#### Second Semester – 14 hours

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<tr>
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<td>4 CADD 2764</td>
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#### Summer Term – 10 hours

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<td>3 Social sciences requirement</td>
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#### Third Semester – 15 hours

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<td>2</td>
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<td>4 CADD 2664</td>
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<td>3 SPCH 1203</td>
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#### Fourth Semester – 16 hours

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<tbody>
<tr>
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<td>4 CADD 2994</td>
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<td>4 CADD Elective</td>
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67 Total Hours

**Notes**

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence, one social science course, and one lab science course.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CADD Department.

3. CADD elective, four hours Consult with advisor.

### CADD - GENERAL

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 4004**  **CONC. CODE: C020**

#### First Semester – 15 hours

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<td>4 CADD 2744</td>
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<tr>
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#### Second Semester – 14 hours

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<td>4 CADD 2764</td>
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#### Summer Term – 7 hours

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<tbody>
<tr>
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#### Third Semester – 15 hours

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<tbody>
<tr>
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### Fourth Semester – 16 hours

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<tbody>
<tr>
<td>4</td>
<td>CADD 2624 Photoshop Applications</td>
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<tr>
<td>4</td>
<td>CADD 2994 Engineering Graphics III</td>
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<td>8</td>
<td>CADD 2634 Architectural Materials and/or CADD 2894 Parametric Modeling and/or CADD 2674 Digital Layout I – Foundation and/or CADD 1104 GPS Mapping Fundamentals</td>
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**Total Hours:** 67

*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence, one social science course, and one lab science course.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CADD Department.
3. CADD electives, 16 hours. Consult with advisor.

---

**Summer Term – 10 hours**

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<td>3</td>
<td>SPCH 1203 Introduction to Speech Communication</td>
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<td>4</td>
<td>ITC 2324 Introductory Programming</td>
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**Third Semester – 15 hours**

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**Fourth Semester – 15 hours**

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**Total Hours:** 70

*Notes
1. General Education Core Requirements, see Graduation Requirements section of the catalog. Select one English sequence, one social science course, and one lab science course.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CADD Department.

---

### CADD - GIS/GPS Mapping

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 4004 CONC. CODE: C023**

**First Semester – 15 hours**

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**Second Semester – 15 hours**

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### Summer Term – 10 hours

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### Third Semester – 15 hours

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### Fourth Semester – 15 hours

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**Total Hours:** 70

*Notes
1. General Education Core Requirements, see Graduation Requirements section of the catalog. Select one English sequence, one social science course, and one lab science course.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CADD Department.

### CADD - MECHANICAL

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 4004 CONC. CODE: C024**

**First Semester – 15 hours**

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<tbody>
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**Second Semester – 14 hours**

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### Third Semester – 15 hours

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<tr>
<td>4 CADD 2834</td>
<td>Machine Drawing I</td>
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<td>Photoshop Applications</td>
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### Fourth Semester – 16 hours

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67 Total Hours

*Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Select one English sequence, one social science course, and one lab science course.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CADD Department.

3. CADD electives, eight hours. Consult with advisor.

### Second Semester – 15 hours

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30 Total Hours

### CADD - DIGITAL DESIGN TECHNICAL CERTIFICATE

**MAJOR CODE: 4005 CONC. CODE: C022**

### First Semester – 15 hours

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<td>3 ENGL 1203</td>
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### Second Semester – 15 hours

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<td>4 CADD 2664</td>
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30 Total Hours

### CADD - GENERAL TECHNICAL CERTIFICATE

**MAJOR CODE: 4005 CONC. CODE: C020**

### First Semester – 15 hours

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<td>4 CADD 1234</td>
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<tr>
<td>4 CADD 2744</td>
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<tr>
<td>3 MATH 1403</td>
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<td>3 ENGL 1203</td>
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### Second Semester – 14 hours

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### Summer Semester – 4 hours

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33 Total Hours
### CADD - GIS/GPS MAPPING TECHNICAL CERTIFICATE
**MAJOR CODE: 4005 CONC. CODE: C023**

**First Semester – 15 hours**

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<td>CADD 2744</td>
<td>CAD-2D Design Level I</td>
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<td>MATH 1403</td>
<td>College Algebra</td>
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**Second Semester – 15 hours**

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**30 Total Hours**

### CADD - MECHANICAL TECHNICAL CERTIFICATE
**MAJOR CODE: 4005 CONC. CODE: C024**

**First Semester – 15 hours**

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**Second Semester – 15 hours**

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**30 Total Hours**

### CADD - ARCHITECTURAL CERTIFICATE OF PROFICIENCY
**MAJOR CODE: 4087 CONC. CODE: C021**

**Hours**

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<td>4 CADD 2624</td>
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**16 Total Hours**

### CADD - DIGITAL DESIGN CERTIFICATE OF PROFICIENCY
**MAJOR CODE: 4087 CONC. CODE: C022**

**Hours**

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**16 Total Hours**

### CADD - ENTRY LEVEL CERTIFICATE OF PROFICIENCY
**MAJOR CODE: 4087 CONC. CODE: C025**

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**16 Total Hours**

### CADD - GIS/GPS MAPPING CERTIFICATE OF PROFICIENCY
**MAJOR CODE: 4087 CONC. CODE: C023**

**Hours**

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<td>Introduction to GIS</td>
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<td>4 CADD 2204</td>
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**16 Total Hours**

### CADD - MECHANICAL CERTIFICATE OF PROFICIENCY
**MAJOR CODE: 4087 CONC. CODE: C024**

**Hours**

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**16 Total Hours**

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(888) 512-5466 • (479) 788-7120

81
Electronics Technology

ASSOCIATE OF APPLIED SCIENCE DEGREE
TECHNICAL CERTIFICATE
CERTIFICATE OF PROFICIENCY

This program is designed to prepare students for jobs in the use and maintenance of common electrical and electronic devices and instruments. The technical certificate with industrial electronics and electrical maintenance emphasis is designed to train students in the maintenance of most industrial electronics and electrical systems. Credits earned in pursuit of the certificate may be applied to the degree program. The technical certificate with computer maintenance emphasis is designed to prepare students to troubleshoot, service, and maintain computers. The program will offer instruction on computer theory with an emphasis on microprocessor technology. Credits earned in pursuit of the certificate may also be applied to the degree program.

JOB OPPORTUNITIES
Engineering Technician
Data Processing Equipment Repair
Computer Service Technician
Industrial Automation Technician
Electronics Technician
Medical Electronics Specialist
Communication Electronics Technician

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4007

First Semester – 17 hours*

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Second Semester – 17 hours

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Third Semester – 17 hours

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<td>ELEC 2733</td>
<td>Advanced Electronic Circuits</td>
<td>2</td>
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<tr>
<td>4</td>
<td>ELEC 2754</td>
<td>Communication Systems</td>
<td>2</td>
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<td>3</td>
<td>MATH 1403</td>
<td>College Algebra</td>
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</table>

Fourth Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Lab science requirement</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>ELEC/Technology electives</td>
<td>2 &amp; 3</td>
<td></td>
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<tr>
<td>3</td>
<td>Social sciences requirement</td>
<td>1</td>
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</table>

67 Total Hours

*Notes:
1. General Education Core Requirements, see Graduation Requirements section of catalog. Select one English sequence, one social sciences course, and one lab science course.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.00 for these courses and a minimum of 2.00 overall to meet graduation requirements.
3. Electives six hours - Consult with advisor. May be ELEC 2843, ELEC 2933, ELEC 190V, ELEC 290V, ELEC 299V or any other approved elective from WELD, GIPM, CADD, IT or AUTO. Electives must be approved by the Electronics Technology department head.

* First semester students may need to take MATH 1203 Intermediate Algebra.

COMPUTER MAINTENANCE TECHNICAL CERTIFICATE
MAJOR CODE: 4008

<table>
<thead>
<tr>
<th>Hours</th>
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<tr>
<td>4</td>
<td>ELEC 1234</td>
<td>Fundamentals of Electricity</td>
</tr>
<tr>
<td>2</td>
<td>ELEC 1242</td>
<td>Introduction to Electronics Technology</td>
</tr>
<tr>
<td>3</td>
<td>ELEC 1353</td>
<td>Electrical Circuits and Components</td>
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<tr>
<td>4</td>
<td>ELEC 1394</td>
<td>Solid State</td>
</tr>
<tr>
<td>4</td>
<td>ELEC 1724</td>
<td>PC Systems Troubleshooting</td>
</tr>
<tr>
<td>4</td>
<td>ELEC 1864</td>
<td>Digital Fundamentals</td>
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</table>
### Associate of Applied Science (AAS) Degree

**Major Code: 4030**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
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<td>4</td>
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<td>ELEC 1242</td>
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<td>ELEC 1264</td>
<td>4</td>
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<td>ELEC 1353</td>
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<td>ELEC 1394</td>
<td>4</td>
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<td>ELEC 1783</td>
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</tr>
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<td>ELEC 1864</td>
<td>4</td>
</tr>
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<td>ELEC 2254</td>
<td>4</td>
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<td>ELEC 2513</td>
<td>3</td>
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<td>ELEC 2933</td>
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<td>SPCH 1203</td>
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**Total Hours: 38-40**

*Notes:
1. General Education Core Requirements, see Graduation Requirements of this catalog. Select one English sequence, one social science course, and one lab science course.
2. These courses are used to determine major courses in residency, see Graduation requirements. Student must maintain a 2.00 cumulative GPA in these courses.
3. Computer requirement; Select three hours from ITA 1003, 1051, 1101, 1201, or 1251.
4. Technical requirements. Select either option 1 or 2 listed below.

#### Technical Requirements (Option 1)
- The 40 credit hours must support one of the following concentrations:
  - Administrative Professional and Office Technology
  - Automotive Technology
  - Welding Technology

#### Technical Requirements (Option 2)
- The 38 credit hours must support the following:
  - Primary Concentration - consists of 24 credit hours from one area listed below.
  - Secondary Concentration(s) - consists of 14 credit hours from list below. Student will complete one nine to 14 hour area and up to five hours of related/support courses.

#### Concentrations may be selected from the following:
- Administrative Professional and Office Technology
- Automotive Technology
- Computer-Aided Drafting and Design
- Computer Maintenance
- Electronics

---

### General Technology
This degree will enable a student or members of a particular industry to design an individualized program of study to fulfill a unique career goal that cannot be met through the completion of any single technical certificate or specific associate degree program presently offered at the University. With the approval of the academic advisor, the student will select courses from one or more technical disciplines and develop a coherent program containing a major technical focus and support courses related to the career objectives.
Legal Assistance/Paralegal

This program is approved by the American Bar Association and designed for paralegal professionals who assist attorneys in the research, investigation, document preparation, and writing responsibilities of a law firm.

Students interested in the program need excellent writing and communication skills, the ability to accept responsibility and take direction, and an aptitude for organizing legal ideas and factual materials.

UAFS’s legal assistance program supports the general principles of ethical legal practice, professional responsibility, and the prohibition against the unauthorized practice of law that prohibits a paralegal from offering legal advice or actively providing legal representation except as specifically permitted by state or federal law. Information concerning requirements may be obtained from an advisor or the program director.

To be eligible for graduation, students must satisfy the University’s general education requirements and must have a “C” or better in all LEGL courses. General Education and elective credits will be accepted from transfer students in accordance with standing University policy on the transfer of credits. Transfer credit for Legal Specialty courses will be considered or accepted for fulfillment of the Paralegal AAS degree requirements only if they originate from an American Bar Association approved Paralegal program of study. A minimum of ten (10) credit hours in Legal Specialty coursework must be completed in residency at the University.

**JOB OPPORTUNITIES**
- Private Law Firm
- Legal Services/Legal Aid Offices
- Government
- Legal-Assistant Supervisor
- Law Librarian
- Service Companies
- Criminal Law Offices (Prosecutor and Defense)
- Law Departments of Corporations, Banks, Insurance Companies, and other Businesses

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 0525**

**First Semester – 16 hours**

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>ENGL 1203</td>
<td>Freshman English I</td>
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<tr>
<td>3</td>
<td>ITA 1003</td>
<td>Computer Applications for the Knowledge Worker</td>
<td></td>
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<tr>
<td>3</td>
<td>POLS 2753</td>
<td>American National Government</td>
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<tr>
<td>3</td>
<td>LEGL 1043</td>
<td>Introduction to Law</td>
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<tr>
<td>4</td>
<td>LEGL 1104</td>
<td>Legal Research</td>
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**Second Semester – 15 hours**

<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
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<tr>
<td>3</td>
<td>MATH 1403</td>
<td>College Algebra</td>
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<tr>
<td>3</td>
<td>ENGL 1213</td>
<td>Freshman English II</td>
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<td>3</td>
<td>LEGL 2723</td>
<td>Criminal Law</td>
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<tr>
<td>3</td>
<td>LEGL 2133</td>
<td>Torts</td>
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**Summer Semester – 4 hours**

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<tr>
<td>3</td>
<td>PSYC 1163</td>
<td>General Psychology</td>
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<td>1</td>
<td>APRO 1221</td>
<td>Digital Information Management</td>
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**Third Semester – 13 hours**

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<tr>
<td>3</td>
<td>LEGL 2323</td>
<td>Civil Litigation</td>
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<tr>
<td>3</td>
<td>LEGL 2143</td>
<td>Legal Writing</td>
<td>1</td>
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<td>2</td>
<td>LEGL 2382</td>
<td>Legal Ethics</td>
<td>1</td>
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<tr>
<td>3</td>
<td>LEGL 2553</td>
<td>Real Estate Law</td>
<td>1</td>
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<tr>
<td>2</td>
<td>Legal or computer elective</td>
<td>1 &amp; 2</td>
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</table>
Fourth Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>2</td>
<td>LEGL 2252</td>
<td>Family Law</td>
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<tr>
<td>3</td>
<td>LEGL 2643</td>
<td>Commercial Law</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>LEGL 2753</td>
<td>Wills, Trusts, and Probate</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>LEGL 2772</td>
<td>Business Organizations</td>
<td>1</td>
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<td>3</td>
<td>LEGL 2823</td>
<td>Trial Practice</td>
<td>1</td>
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<tr>
<td>3</td>
<td>General elective requirement</td>
<td>2</td>
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</table>

64/65 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation Requirements. Student must have a “C” or better in these courses to meet LEGL requirements.

2. Electives, select with advisor or program director. Legal or computer elective, two hours are required from LEGL 190V, 2162, 2622, 2713, 2762, or ITA 1003, or HLTH 1473. General elective requirement, three hours are required from humanities, art, music appreciation, science, world language, mathematics, or economics.

Welding

The welding curriculum leads to the associate of applied science degree in general technology. Students will develop skills to meet certain certification test standards for both structural and high-pressure vessel welding. Students will also be better prepared to assume positions that require an understanding of fabrication and layout. The technical certificate is designed to train for entry-level welding employment. Certificates of proficiency are available for skill-specific, entry-level training. Courses taken in the certificate program may be applied to the degree.

**JOB OPPORTUNITIES**

- Flux-Core Welder
- Welding Supervisor
- Arc Welder
- MIG Welder
- Structural Fabricator
- Pipe Welder
- Production Line Welder
- Maintenance Welder
- TIG Welder

GENERAL TECHNOLOGY

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

MAJOR CODE: 4030 CONC. CODE: C012

First Semester – 14 hours

<table>
<thead>
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<th>Hours</th>
<th>Course</th>
<th>Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>WELD 1234</td>
<td>Introduction to Welding and Print Reading</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>WELD 1454</td>
<td>Layout and Fabrication - Sheet Metal</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>MATH 1303</td>
<td>College Mathematics or higher MATH</td>
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</tr>
<tr>
<td>3</td>
<td>Computer requirement</td>
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Second Semester – 14 hours

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<th>Course</th>
<th>Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>WELD 1404</td>
<td>MIG Welding - Basic</td>
<td>2</td>
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<tr>
<td>4</td>
<td>Advanced WELD elective</td>
<td>2 &amp; 4</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>English composition requirement</td>
<td>1</td>
<td></td>
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<tr>
<td>3</td>
<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
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Summer Semester – 7 hours

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<tbody>
<tr>
<td>4</td>
<td>WELD 1384</td>
<td>TIG Welding - Basic or Advanced WELD elective</td>
<td>2 &amp; 4</td>
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<tr>
<td>3</td>
<td>English composition requirement</td>
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Third Semester – 15 hours

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<th>Hours</th>
<th>Course</th>
<th>Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>WELD 1284</td>
<td>Arc Welding - Basic</td>
<td>2</td>
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<tr>
<td>4</td>
<td>WELD 1474</td>
<td>Layout and Fabrication - Structural and Pipe</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Advanced WELD elective</td>
<td>2 &amp; 4</td>
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<td>3</td>
<td>Social sciences requirement</td>
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Fourth Semester – 12 hours

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<td>8</td>
<td>Advanced WELD electives</td>
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<td>4</td>
<td>Lab science requirement</td>
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62 Total Hours

*Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence, one social science course, and one lab science course.

2. These courses are used to determine major courses in residency, see Graduation Requirements.
Student must maintain a 2.00 cumulative GPA in these courses.

3. Computer requirement. Select three credit hours from ITA 1003, 1051, 1101, 1201, or 1251.

4. Select WELD electives from the following in consultation with advisor: WELD 2384, 2404, 2284, 2402, 2282.

TECHNICAL CERTIFICATE
MAJOR CODE: 4029
First Semester – 16 hours

<table>
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<tbody>
<tr>
<td>4 WELD 1234</td>
<td>Introduction to Welding and Print Reading</td>
</tr>
<tr>
<td>4 WELD 1404</td>
<td>MIG Welding - Basic</td>
</tr>
<tr>
<td>4 WELD 1454</td>
<td>Layout and Fabrication - Sheet Metal</td>
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<tr>
<td>4 Advanced WELD elective</td>
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Second Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4 WELD 1284</td>
<td>Arc Welding - Basic</td>
</tr>
<tr>
<td>4 WELD 1384</td>
<td>TIG Welding - Basic</td>
</tr>
<tr>
<td>4 WELD 1474</td>
<td>Layout and Fabrication - Structural and Pipe</td>
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<tr>
<td>4 Advanced WELD elective</td>
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</table>

32 Total Hours

*Notes:
1. Select WELD electives from the following in consultation with advisor: WELD 2384, 2404, 2284, 2402, or 2282.

ARC WELDING CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4047

Hours

| 4 WELD 1234 | Introduction to Welding and Print Reading |
| 4 WELD 1284 | Arc Welding - Basic |
| 4 WELD 2284 | Arc Welding - Advanced |

12 Total Hours

MIG WELDING CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4045

Hours

| 4 WELD 1234 | Introduction to Welding and Print Reading |

12 Total Hours

WELDING LAYOUT AND FABRICATION CERTIFICATE OF PROFICIENCY
MAJOR CODE: 4048

Hours

| 4 WELD 1234 | Introduction to Welding and Print Reading |
| 4 WELD 1454 | Layout and Fabrication - Sheet Metal |
| 4 WELD 1474 | Layout and Fabrication - Structural and Pipe |

12 Total Hours

Workforce Leadership
ASSOCIATE OF APPLIED SCIENCE DEGREE
TECHNICAL CERTIFICATE CERTIFICATE OF PROFICIENCY

This program is designed to provide managers and supervisors with the career-building leadership skills they need as they advance in industry and face the challenges of competing in global markets. Emphasis is placed on principles and tools of quality, computer technology, management, development of interpersonal and team-performance communication skills, and lean enterprise techniques.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4042
Freshman Year Fall Semester – 15 hours

<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
<td>4 WFL 1374</td>
<td>Human Relations &amp; Interpersonal Development</td>
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</table>
### Freshman Year Spring Semester – 17 hours

<table>
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<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>WFL 1174</td>
<td>Total Quality Essentials</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>WFL 2174</td>
<td>Introduction to Lean Enterprise Systems</td>
<td>2</td>
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<tr>
<td>3</td>
<td>WFL 2993</td>
<td>Workforce Leadership: Special Project</td>
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### Sophomore Year Fall Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>ENGL 1203</td>
<td>Freshman English I</td>
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<td>WFL elective</td>
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### Sophomore Year Spring Semester – 17 hours

<table>
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<th>Course Title</th>
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<td>2</td>
<td>TCHG 1182</td>
<td>Industrial Safety</td>
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### Second Semester Courses - 15 hours

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<th>Course Title</th>
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<tr>
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<td>TCHG 1182</td>
<td>Industrial Safety</td>
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<tr>
<td>3</td>
<td>WFL 2583</td>
<td>Advanced Team Building</td>
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<td>3</td>
<td>WFL 2853</td>
<td>Problem Solving &amp; Decision Making</td>
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<tr>
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<td>ENGL 1203</td>
<td>Freshman English I</td>
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<tr>
<td>1</td>
<td>WFL elective</td>
<td>(Selected with faculty adviser)</td>
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### 64 Total Hours

*Notes:
1. General Education Core Requirements, see Graduation Requirements section of this catalog, with the following stipulation: social sciences - elect one course from the following: PSYC 1163, SOCI 2753, ANTH 2803, ECON 2803, ECON 2813, GEOG 2753, HIST 2753, or POLS 2753.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a 2.00 cumulative GPA in these courses.
3. WFL electives, 19 hours. Select with an advisor: WFL 2303, 2313, 2402, 2403, 2413, 2501, 2603, 2611, 2621, 2631, 2641, 2651, 2661, 2671, or 290V.

### WFL IT Applications, 3 hours. Select 3 courses from the following: WFL 1601, 1611, 1621, or 1631.

### Technical Certificate

**MAJOR CODE: 4041**

**First Semester Courses - 15 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>4</td>
<td>WFL 1374</td>
<td>Human Relations and Interpersonal Development</td>
</tr>
<tr>
<td>4</td>
<td>WFL 1174</td>
<td>Total Quality Essentials</td>
</tr>
<tr>
<td>4</td>
<td>WFL 2174</td>
<td>Introduction to Lean Enterprise Systems</td>
</tr>
<tr>
<td>3</td>
<td>WFL 2993</td>
<td>Workforce Leadership: Special Topics</td>
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### Certificate of Proficiency

**MAJOR CODE: 4040**

<table>
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<th>Course Title</th>
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<td>WFL 1374</td>
<td>Human Relations and Interpersonal Development</td>
</tr>
<tr>
<td>4</td>
<td>WFL 1174</td>
<td>Total Quality Essentials</td>
</tr>
<tr>
<td>4</td>
<td>WFL 2174</td>
<td>Introduction to Lean Enterprise Systems</td>
</tr>
<tr>
<td>3</td>
<td>WFL 2993</td>
<td>Workforce Leadership: Special Topics</td>
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### 15 Total Hours
The College of Business strives to be increasingly recognized by our stakeholders for developing entrepreneurial leadership in our students through integrated, practice-grounded programs. We prepare our students to succeed in a changing and global workplace through an integrated, practice-oriented curriculum that cultivates entrepreneurial skills and attitudes. Our approach rests upon a foundation of proven competencies in business, leadership, and communications. Our scholarly activity focuses on instruction and application, and we are committed to service and regional economic development.

ADMISSION REQUIREMENTS
Students may declare a major within the College of Business at any time. However, to be officially admitted into the College of Business, students must meet these eligibility criteria:
1. Complete a minimum of 45 credit hours.
2. Earn a GPA of 2.50 or better overall (not including transfer credits) and a grade of “C” or better in all COB courses.

A student must be admitted to the College of Business before enrolling in any upper-level business courses.

Students previously admitted into the College of Business who have not taken a course at the University for a one-year period must follow the policies of the University with regard to reapplication and updating of catalog year and degree plan.

GRADUATION REQUIREMENTS
College of Business students who meet the prescribed degree requirements will be awarded a baccalaureate degree. College of Business students are required to complete a minimum of 44 semester hours of general education requirements, 42 semester hours of the business core, and 24 semester hours of specific major requirements, and 10 hours of other requirements. Students can complete a baccalaureate degree with a major in accounting, business administration, or marketing by satisfying the University requirements and the College of Business specific requirements:

1. Maintain a minimum GPA of 2.25 and a grade of at least a “C” for each course offered by the College of Business including core and major requirements, based on the last grade earned in each course.
2. Maintain an overall GPA of 2.25.
3. At least 50 percent of the minimum business courses required for the baccalaureate degree must be taken in residence at UAFS.
   a. Any UAFS student who has declared a major in business must get prior approval from the College
Accounting Major

College of Business students who meet the prescribed degree requirements will be awarded a baccalaureate degree with a major in accounting. Students work with their accounting faculty advisor concerning CPA exam requirements and the selection of upper-level major courses.

BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE

MAJOR CODE: 0575

Freshman Year Fall Semester – 16 hours

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Sophomore Year Fall Semester – 16 hours

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Sophomore Year Spring Semester – 16 hours

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<tr>
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### Junior Year Fall Semester – 15 hours

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### Junior Year Spring Semester – 15 hours

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### Senior Year Fall Semester – 15 hours

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### Senior Year Spring Semester – 12 hours

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<td>MGMT 4813</td>
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120 Total Hours
At least 45 hours must be upper level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
   Follow requirements with these stipulations: social sciences-select one course from HIST 1123 or 1133, and two additional courses.

2. These courses are used to determine major courses in residency, see Graduation Requirements. A cumulative GPA of 2.25 is required in these courses to meet graduation requirements for the College of Business.

3. Electives, 10 hours: Select courses that will satisfy degree requirements for a baccalaureate program. MATH 1403 is shown in the first semester as a general elective if it is needed as prerequisite for MATH 2403. MGMT 1201 is required for first-time, full-time freshmen. Consult with advisor for other electives.


5. Required business computing competency may be fulfilled by successful completion of MGMT 2103 or ITA 1003 or approved substitution. Will count as a general elective.

### Accounting/Business Administration Double Major

Educational requirements to sit for the CPA exam include a total of 150 semester hours of coursework. Accounting students that plan to sit for the CPA exam can meet this requirement with a double major in Accounting and Business Administration. In addition to the 120 hours required for the accounting major listed above, the students who complete the additional requirements will be awarded the baccalaureate degree with majors in accounting and business administration. Students are encouraged to make the decision for a double major early in their academic career and to complete their upper-level accounting courses during their final two years of study.

#### ADDITIONAL BUSINESS ADMINISTRATION REQUIREMENTS - 30 HOURS

Students must complete 24 hours of upper level courses from at least three functional areas within the College (ACCT, COBI, ECON, FIN, LAW, MGMT, or MKTG) and six hours of free electives.
Business Administration Major

College of Business students who meet the prescribed degree requirements will be awarded a baccalaureate degree with a major in business administration. Students work with their business administration faculty advisor in the selection of upper-level major courses.

**BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE**

**MAJOR CODE: 0578**

**Freshman Year Fall Semester – 16 hours**

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**Freshman Year Spring Semester – 15 hours**

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<tr>
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<td>English Composition Requirement</td>
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<td>Required business computing competency</td>
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**Sophomore Year Fall Semester – 16 hours**

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<tbody>
<tr>
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<td>ECON 2803 Principles of Macroeconomics</td>
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<td>ACCT 2803 Principles of Financial Accounting</td>
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**Sophomore Year Spring Semester – 16 hours**

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<tr>
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3. MGMT 2203 Introduction to International Business 2 & 4
4. Lab science requirement 1

**Junior Year Fall Semester – 15 hours**

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**Senior Year Spring Semester – 12 hours**

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<td>Major requirement</td>
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</table>

120 Total Hours

At least 45 hours must be upper level.

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: social sciences-select one course: HIST 1123 or 1133 and two additional courses.

2. These courses are used to determine major courses in residency, see Graduation Requirements. A cumulative GPA of 2.25 is required in these
courses to meet graduation requirements for the College of Business.

3. Electives, 10 hours: Select courses that will satisfy degree requirements for a baccalaureate program. MATH 1403 is shown in the first semester as a general elective if it is needed as prerequisite for MATH 2403. MGMT 1201 is required for first-time, full-time freshmen. Consult with advisor for other electives.


5. Major requirements, 24 hours. Must be upper-level courses within the College of Business and at least three business disciplines must be represented (ACCT, COBI, ECON, FIN, LAW, MGMT, or MKTG).

6. Required business computing competency may be fulfilled by successful completion of MGMT 2103 or ITA 1003 or approved substitution. Will count as a general elective.

Marketing Major

College of Business students who meet the prescribed degree requirements will be awarded a baccalaureate degree with a major in marketing. Students work with their marketing faculty advisor in the selection of upper-level major courses.

**BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE**

**MAJOR CODE: 0580**

**Freshman Year Fall Semester – 16 hours**

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<td>3 ECON 2803 Principles of Macroeconomics</td>
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**Junior Year Fall Semester – 15 hours**

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### Senior Year Fall Semester – 15 hours

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<td>Selling Strategies</td>
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**Business Administration Minor**

**Minor Code: A009**

The minor in business administration requires 18 hours of courses. Students must maintain a minimum GPA of 2.25 in the minor and a grade of at least a “C” for each course required in the minor. Students are required to meet all prerequisites for upper-level electives. Students are required to declare the minor using the form available in the Records Office. The minor form must be on file in the Records Office.

ECON 2803 Principles of Macroeconomics or ECON 2813 Principles of Microeconomics must be completed prior to entering the minor.

**Required 12 hours:**
- ACCT 2803 Principles of Financial Accounting
- MKTG 3013 Principles of Marketing Management
- MGMT 1203 Foundations of Business
- MGMT 3153 Organizational Behavior

**Select six hours:**
Upper-level electives from the following areas:
- ACCT, ECON, FIN, MGMT, or MKTG

### Senior Year Spring Semester – 12 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
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<th>Notes</th>
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<tr>
<td>3</td>
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<td>MKTG 4033</td>
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**Community Leadership**

**Certificate of Proficiency**

**Major Code: 0573**

The certificate of proficiency in community leadership is designed to provide a curriculum in which students can actively learn, practice, develop, expand, and improve leadership skills and competencies. It is available to all UAFS students.

**Course Requirements**

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<tr>
<th>Hours</th>
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<tr>
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<tr>
<td>3</td>
<td>MGMT 4613</td>
<td>Community Leadership</td>
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</table>

**Total Hours**
The College of Education is committed to excellence in teacher preparation through both classroom instruction and field experiences. Designed to serve public and private schools, as well as other educational agencies in Western Arkansas and Eastern Oklahoma, the College strives to enhance the capacity of the teaching profession to provide equal educational opportunities for all segments of the culture.

ADMISSION REQUIREMENTS

Students who seek to earn a degree within the College of Education or a secondary education degree within other colleges on campus must apply for and be admitted into the teacher education program. To be admitted, students must meet these eligibility criteria:

1. Completion of the following with a “C” or better: ENGL 1203 or 1233, and appropriate mathematics course. Completion of the following with a “B” or better: EDUC 2753, EDUC 3001/3002, ENGL 1213 or RHET 2863, and a course in speech.
2. A grade of “C” or better in all courses on the degree plan.
3. Passing scores (state cut-off scores or above) on the reading, writing, and mathematics components of PRAXIS I.
4. Submission of a satisfactory plan of study to an advisor.
5. Maintenance of a cumulative grade point average of 2.75 on a 4.0 scale.
6. A satisfactory interview evaluation.
7. Demonstrated professional attitude and interest related to UAFS’s stated dispositions.
8. Evidence of a satisfactory disciplinary record.
9. Completed application including signatures indicating that the student has read and understands the College of Education Policies and Procedures Handbook and College of Education Affirmation Statement.
10. Verification of the successful completion of Red Cross Adult/Child/Infant CPR/AED and Standard First Aid.

Note:
Requirements for admission may change over time. Students must meet admission requirements current at the time of their final application for admission to the teacher education program.

GRADUATION REQUIREMENTS

College of Education students who meet prescribed degree requirements will be awarded the bachelor of science degree by satisfying the University requirements and the College of Education specific requirements:

1. Satisfactory completion of all coursework for the baccalaureate degree.
2. A minimum 2.75 cumulative grade point average and a minimum 2.75 grade point average in the area of specialization.
3. Successful completion of all required PRAXIS I and II exams with required state cut-off scores or above.
4. Satisfactory evaluations by University supervisors and mentor teachers during the internship experience.
5. Development and presentation of an acceptable professional portfolio.
6. Completion of all required application elements for teacher licensure.

Successful completion of the degree program is not based solely on the number of credit courses, but requires demonstration of specified professional knowledge, skills, and behaviors. Once the student has begun the program, periodic evaluations will assess progress. Failure to progress satisfactorily might result in a student being removed from the program or denied graduation.

The programs of the College of Education consist of the following majors and academic concentrations within each major:

**BACHELOR OF SCIENCE (BS) DEGREE**
- Early Childhood Education P-4
- Middle Childhood Education with Emphasis in Language Arts/Social Studies, 4-8
- Middle Childhood Education with Emphasis in Math/Science, 4-8

The College of Education, in partnership with other colleges on campus, offers the following programs:
- Biology with Life Science/Earth Science teacher licensure 7-12
- Chemistry with Physical/Earth Science teacher licensure 7-12
- English with teacher licensure 7-12
- History with Social Studies teacher licensure 7-12
- Mathematics with teacher licensure 7-12
- Spanish with teacher licensure 7-12
- Music Education
  - Instrumental Music P-8 and 7-12
  - Vocal Music P-8 and 7-12

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**
- Concentration in Early Childhood Education

**CERTIFICATES/ENDORSEMENTS**
- Algebra I, Grade 8
- Coaching
- Grade 5 and 6 Licensure
- Special Education P-4 or 4-12 Licensure
- Teaching English as a Second Language

---

**Early Childhood Education P-4**

**BACHELOR OF SCIENCE (BS) DEGREE**

**MAJOR CODE: 3552**

**Freshman Year Fall Semester – 16 (17) hours**

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement 1 &amp; 4</td>
</tr>
<tr>
<td>3</td>
<td>MATH 1333 Numbers Sense and Data Analysis I 2 &amp; 4</td>
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<tr>
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<td>MATH 1343 Numbers Sense and Data Analysis II 2 &amp; 4</td>
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<td>CISM 0101 Introduction to Personal Computers (if required)</td>
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**Freshman Year Spring Semester – 17 hours**

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<th>Hours</th>
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<td>MATH 2233 Geometry and Measurement I 2 &amp; 4</td>
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<td>3</td>
<td>MATH 2243 Geometry and Measurement II 2 &amp; 4</td>
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<td>PHYE program requirement 2 &amp; 3</td>
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<td>Lab science requirement 1</td>
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**Sophomore Year Fall Semester – 18 hours**

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<tr>
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<td>2</td>
<td>EDUC 3002 Introduction to Educational Technology 2, 4 &amp; 6</td>
</tr>
<tr>
<td>3</td>
<td>MATH 1403 College Algebra 4</td>
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<td>SPCH 1203 Introduction to Speech Communication 4</td>
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**Sophomore Year Spring Semester – 17 hours**

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<tr>
<td>3</td>
<td>ECED 3023 Foundations of ECE 2 &amp; 4</td>
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<td>ECED 3033 Child Development 2 &amp; 4</td>
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<td>SPAN 1304 Beginning Spanish I 2</td>
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Admission to the College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

### Junior Year Fall Semester – 18 hours

<table>
<thead>
<tr>
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<th>ECED 3043 Developmentally Appropriate Practice</th>
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<td>3</td>
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<td>ECED 3053 Children and Families in a Diverse Society</td>
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<td>ECED 3153 Creative Arts in Early Childhood</td>
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<td>3</td>
<td></td>
<td>ECED 3003 Science in the ECE Classroom</td>
<td>2</td>
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<td>HIST 4153 History of Arkansas</td>
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### Junior Year Spring Semester – 14 hours

<table>
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<tr>
<th>Hours</th>
<th>*Notes</th>
<th>ECED 3113 Integrated Curriculum (3-5 yrs)</th>
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<tr>
<td>3</td>
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<td>ECED 3122 Practicum I (3-5 yrs)</td>
<td>2, 5 &amp; 6</td>
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<td>3</td>
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<td>ECED 3173 Guiding Children</td>
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<td></td>
<td>ECED 3183 Language and Literacy I (3-5 yrs)</td>
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<td>3</td>
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<td>ECED 3193 Children's Literature</td>
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### Senior Year Fall Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<th>ECED 3063 Methods of Teaching Mathematics in the EC Setting</th>
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<tbody>
<tr>
<td>3</td>
<td></td>
<td>ECED 3213 Integrated Curriculum II (6-9 yrs)</td>
<td>2 &amp; 5</td>
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<td>2</td>
<td></td>
<td>ECED 3222 Practicum II (6-9 yrs)</td>
<td>2, 5 &amp; 6</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>ECED 3263 Assessment in ECE</td>
<td>2 &amp; 5</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>ECED 3283 Language and Literacy II (6-9 yrs)</td>
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### Senior Year Spring Semester – 12 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<th>EDUC 4802 Seminar in Education</th>
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<tr>
<td>2</td>
<td></td>
<td>ECED 490A ECED Internship</td>
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</table>

127 - 128 Total Hours

At least 45 hours must be upper level.

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements in this degree plan with following stipulations: lab science-PHSC 2713/2711 and BIOL 1153/1151 or 1523/1521 are required, and select one from CHEM 1303/1301, GEOL 1253/1251, PHSC 2653/2651, or PHYS 2784; history/government-POLS 2753 is required and select one from HIST 2753 or 2763; social sciences-GEOG 2753 is required and select one from ANTH 2803, PSYC 1163, or SOCI 2753.

2. These courses are used to determine major courses in residency, Graduation Requirements this catalog. Student must have a minimum cumulative GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. Required PHYE activity courses: select two from 1011, 1101, 1261, or 1551, 1561, 1571, or 2571.

4. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education Admission requirements and for courses taken after admission to program.

5. Must be admitted to the College of Education Teacher Education Program.

6. Program requirement - course must be completed with a grade of “B” or better.

**Middle Childhood Education with Emphasis in Language Arts/Social Studies 4-8**

A student earning a BS degree with teacher licensure in middle childhood education with an emphasis in
language arts/social studies is currently authorized by the Arkansas Department of Education to teach language arts, social studies, mathematics, and science.

**BACHELOR OF SCIENCE (BS) DEGREE**  
**MAJOR CODE: 3578**

### Freshman Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement 1 &amp; 4</td>
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<tr>
<td>3</td>
<td>MATH 1403 College Algebra or higher MATH 4</td>
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<td>3</td>
<td>History/Government requirement 1</td>
</tr>
<tr>
<td>3</td>
<td>Fine Arts/Humanities/</td>
</tr>
<tr>
<td></td>
<td>Social Sciences requirement 1</td>
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### Freshman Year Spring Semester – 14 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement 1 &amp; 4</td>
</tr>
<tr>
<td>4</td>
<td>Lab science requirement 1</td>
</tr>
<tr>
<td>4</td>
<td>SPAN 1304 Beginning Spanish I 2</td>
</tr>
<tr>
<td>3</td>
<td>SPCH 1203 Introduction to Speech Communication 4</td>
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</tbody>
</table>

### Summer Term(s) – 13 hours

(Following courses need to be scheduled during one or more summer terms prior to the senior year.)

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>History/Government requirement 1</td>
</tr>
<tr>
<td>3</td>
<td>MATH 2333 Structures of Arithmetic 2</td>
</tr>
<tr>
<td>3</td>
<td>HIST 4153 History of Arkansas 2</td>
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<tr>
<td>4</td>
<td>PHSC 2653/2651 Earth Science/Lab 2</td>
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### Sophomore Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>EDUC 2753 Introduction to Education/Field Experience 2, 4 &amp; 6</td>
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<td>ENGL program requirement 2 &amp; 3</td>
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<tr>
<td>3</td>
<td>History/Government requirement 1</td>
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<tr>
<td>3</td>
<td>HIST 1123 Civilizations of the World to 1500 2</td>
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<td>PHYE program requirement 2 &amp; 3</td>
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### Sophomore Year Spring Semester – 15 hours

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<th>Hours</th>
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<tbody>
<tr>
<td>1</td>
<td>EDUC 3001 Electronic Portfolio Development 2, 4 &amp; 6</td>
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<tr>
<td>2</td>
<td>EDUC 3002 Introduction to Educational Technology 2, 4 &amp; 6</td>
</tr>
<tr>
<td>3</td>
<td>ENGL program requirement 2 &amp; 3</td>
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<tr>
<td>3</td>
<td>ENGL program requirement 2 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td>HIST 1133 Civilizations of the World since 1500 2</td>
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<tr>
<td>3</td>
<td>MATH 2343 Informal Geometry 2</td>
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</table>

Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

### Junior Year Fall Semester – 15 hours

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<tr>
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<td>ENGL program requirement 2 &amp; 3</td>
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<tr>
<td>3</td>
<td>STAT 2503 Probability and Statistics I 2</td>
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<tr>
<td>3</td>
<td>MLED 3563 Middle School Concepts 2 &amp; 5</td>
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<tr>
<td>3</td>
<td>MLED 4113 Middle-level Literacy and Literature 2 &amp; 5</td>
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### Junior Year Spring Semester – 15 hours

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<th>Hours</th>
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<tbody>
<tr>
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<td>ENGL 3403 Grammar and Language Awareness 2</td>
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<td>EDUC 3112 Literacy Development in the Content Area 2 &amp; 5</td>
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<td>EDUC 3221 Practicum I 2, 5 &amp; 6</td>
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<td>EDUC 3013 Human Development and Learning 2 &amp; 5</td>
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<tr>
<td>3</td>
<td>MLED 4143 Integrating Methods in Middle-level Math/Science Education 2 &amp; 5</td>
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### Senior Year Fall Semester – 14 hours

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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
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<td>MLED 4123 Integrating Methods in Middle Level Social Studies/Language Arts 2 &amp; 5</td>
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<td>EDUC 4222 Assessment 2 &amp; 5</td>
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<td>2</td>
<td>EDUC 3612 Classroom and Behavioral Management 2 &amp; 5</td>
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<td>EDUC 4211 Practicum II 2, 5 &amp; 6</td>
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<td>2</td>
<td>SPED 3022 Survey of Diverse Populations 2 &amp; 5</td>
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(888) 512-5466 • (479) 788-7120
Senior Year Spring Semester – 12 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>2</td>
<td>EDUC 4802</td>
<td>Seminar in Education</td>
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<td>10</td>
<td>MLED 490A</td>
<td>Teaching in the Middle School</td>
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</table>

130 Total Hours
At least 45 hours must be upper level

*Notes
1. General Education Core requirements, see Graduation Requirements section of catalog. Follow requirements as noted in this degree plan with these stipulations: lab science-PHSC 2713/2711 and BIOL 1153/1151 are required; humanities- ENGL 2803 is required; history/government-POLS 2753, HIST 2753 and 2763 are all required; social sciences- ECON 2803 and GEOG 2753 are required.
2. These courses are used to determine major courses in residency, see Graduation Requirements this catalog. Student must have a minimum cumulative GPA of 2.75 in these courses to meet graduation requirements, College of Education.
3. Program Requirements 17 hours. PHYE required activity courses: select two from 1011, 1101, 1021, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.
   Required English courses: ENGL 2783, 2793, 2763 or 2773, and 2813. RHET 2863 is required; if taken for composition requirement, select another ENGL course.
4. Requirements for Admission in teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.
5. Must be admitted to the College of Education Teacher Education Program.
6. Program requirement - course must be completed with a grade of “B” or better.

Middle Childhood Education with Emphasis in Math/Science 4-8

A student earning a BS degree with teacher licensure in middle childhood education with an emphasis in math/science 4-8 is currently authorized by the Arkansas Department of Education to teach mathematics, science, English, and social studies.

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3514

Freshman Year Fall Semester – 17 (18) hours

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<td>MATH 1715 Pre-Calculus Mathematics</td>
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<td>History/Government requirement</td>
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<td>3</td>
<td>Fine Arts/Humanities/Social Sciences requirement</td>
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Freshman Year Spring Semester – 17 (18) hours

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<td>Lab science requirement</td>
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<td>4/3</td>
<td>MATH 2804 Calculus I or MATH elect.</td>
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<td>SPAN 1304 Beginning Spanish I</td>
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<td>3</td>
<td>SPCH 1203 Introduction to Speech Communication</td>
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Summer Term(s) – 6 hours

(Following courses need to be scheduled during one or more summer terms prior to the senior year.)

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<tbody>
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Sophomore Year Fall Semester – 14 hours

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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>EDUC 2753 Introduction to Education/Field Experience</td>
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<td>4</td>
<td>CHEM 1303/1301 Chemical Principles/Lab</td>
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<tr>
<td>3</td>
<td>MATH 2333 Structures of Arithmetic</td>
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<td>MATH 2343 Informal Geometry</td>
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<td>PHYE program requirement</td>
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Sophomore Year Spring Semester – 17 hours

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<tbody>
<tr>
<td>1</td>
<td>EDUC 3001 Electronic Portfolio Development</td>
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<tr>
<td>2</td>
<td>EDUC 3002 Introduction to Educational Technology</td>
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4 BIOL 1433/1431 Basic Anatomy and Physiology/Lab or
BIOL 1533/1531 Anatomy and Physiology II/Lab
(if BIOL 1523/1521 used as science requirement) 2
4 PHSC 2653/2651 Earth Science/Lab 2
3 Fine Arts/Humanities/
Social Sciences requirement 1
3 HIST 1123 Civilizations of the World
   to 1500 or
HIST 1133 Civilizations of the World
   since 1500 2
Admission to College of Education, Teacher
Education Program: Students must be admitted
into the College of Education prior to enrollment in
particular courses.

<table>
<thead>
<tr>
<th>Junior Year Fall Semester – 15 hours</th>
<th>Hours</th>
<th>*Notes</th>
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</table>
| 3 Fine Arts/Humanities/
Social Sciences requirement |       |        |
| 3 STAT 2503 Probability and Statistics I or
STAT 3503 Applied Mathematical
Statistics I |       | 2      |
| 3 MLED 3563 Middle School Concepts |       | 2 & 5  |
| 3 MLED 4113 Middle Level Literacy
   and Literature |       | 2 & 5  |
| 3 HIST 4153 History of Arkansas |       | 2      |

Junior Year Spring Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
</table>
| 3 MATH 3803 Mathematics Pedagogy:
   Numerical Systems |       | 2      |
| 3 ENGL 3403 Grammar and Language
   Awareness |       | 2      |
| 2 EDUC 3112 Literacy Development in
   the Content Area |       | 2 & 5  |
| 1 EDUC 3221 Practicum I |       | 2, 5 & 6 |
| 3 EDUC 3013 Human Development
   and Learning |       | 2 & 5  |
| 3 MLED 4143 Integrating Methods in
   Middle-Level Math/Science
   Education |       | 2 & 5  |

Senior Year Fall Semester – 14 (15) hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4 BIOL/CHEM Upper-level elective</td>
<td></td>
</tr>
</tbody>
</table>
| 3 MLED 4123 Integrating Methods in
   Middle-Level Social
   Studies/Language Arts |       | 2 & 5  |
| 2 EDUC 4222 Assessment |       | 2 & 5  |

Senior Year Spring Semester – 12 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 EDUC 4802 Seminar in Education</td>
<td></td>
</tr>
</tbody>
</table>
| 10 MLED 490A Teaching in the
   Middle School |       | 2 & 5  |

127 - 130 Total Hours
At least 45 hours must be upper level

*Notes

1. General Education Core Requirements, see
   Graduation Requirements section of catalog.
   Follow requirements with these stipulations:
   mathematics - lab science-PHSC 2713/2711
   and BIOL 1153/1151 or 1523/1521 is required;
   history/ government- POLS 2753 is required and
   select one from HIST 2753 or 2763; humanities-
   may not use PHIL 2753.

2. These courses, excluding MATH 2804, are used to
determine major courses in residency, Graduation
Requirements this catalog. Student must have a
minimum cumulative GPA of 2.75 in these courses
to meet graduation requirements, College of
Education.

3. Program Requirements, five hours. Required three
hours of MATH elective approved by middle level
program director. If student is unprepared for
MATH 2804 the first semester, MATH 1715 will
satisfy the three hours of MATH elective. PHYE
required activity courses: select two from 1011,
1101, 1021, 1261, 1321, 1551, 1561, 1571, 1621,
or 2571.

4. Requirements for Admission in teacher Education
Program (TEP). Must be completed with required
grades for admission requirements. Consult with
faculty advisor regarding College of Education
admission requirements and for courses taken after
admission to program.

5. Must be admitted to the College of Education
Teacher Education Program.

6. Program requirement - course must be completed
with a grade of “B” or better.
ALGEBRA I ENDORSEMENT,
GRADE 8
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 3567

The Algebra I Licensure Endorsement, Grade 8 is for teachers holding either an initial or standard middle childhood teaching license. Once these individuals have completed the courses listed below and the Praxis II: Middle School Mathematics examination (test # 0069), they will receive the endorsement to teach algebra in grade 8. Middle childhood teachers who did not license in middle childhood mathematics or who received their middle childhood licensure via a non-traditional program will also be required to complete an approved one-week professional development workshop and follow-up sessions prior to completion of this endorsement.

Course Requirements
Hours
3 MATH 2333 Structures of Arithmetic
3 MATH 2343 Informal Geometry
4 MATH 2804 Calculus I
3 MATH 3803 Mathematics Pedagogy for Numerical Systems
3 STAT 2503 Probability and Statistics I

16 Total Hours

COACHING ENDORSEMENT
TECHNICAL CERTIFICATE
MAJOR CODE: 3582

The Coaching Endorsement Certificate (7-12) is for teachers holding either an Arkansas initial or standard teaching license. Once these individuals have completed the prescribed curriculum and the Praxis II Physical Education: Content Knowledge exam, they will receive the Coaching Endorsement Certificate to coach in grades 7-12.

Course Requirements
Hours
3 CHED 2013 Care and Prevention of Athletic Injuries
3 CHED 2023 Motor Development and Learning
3 CHED 3113 Theory of Coaching
3 CHED 3123 Kinesiology
3 CHED 4113 Organization and Administration of Athletics
3 CHED 4123 Exercise Physiology
3 HLTH 2853 First Aid
3 Practicum in coaching, choose three of the following:
CHED 3121 Practicum of Coaching Football
CHED 3131 Practicum of Coaching Basketball
CHED 3141 Practicum of Coaching Baseball/Softball
CHED 3151 Practicum of Coaching Volleyball
CHED 3161 Practicum of Coaching Track
CHED 3171 Practicum of Coaching Soccer

24 Total Hours

GRADE 5 AND 6 LICENSURE ENDORSEMENT
CERTIFICATE OF PROFICIENCY
MAJOR CODE: 3517 (P-4)
MAJOR CODE: 3518 (7-12)

The grades 5 and 6 licensure endorsement is for teachers holding either an initial or standard P-4 or 7-12 teaching license. Once these individuals have completed the three courses listed below and the appropriate Praxis examination, they will receive the endorsement to teach 5th and 6th grade. The courses are mandated by the Arkansas Department of Education. P-4 licensed individuals must take the Praxis II: Middle School Content Knowledge exam while 7-12 licensed individuals must take the Praxis II Content Knowledge exam in the teacher’s specific secondary licensure area if not previously completed.

Course Requirements
Hours
3 EDUC 3023 Adolescent Growth and Development
3 MLED 4133 Meeting the Needs of Diverse Learners in the Middle Childhood Setting
3 MLED 4153 Middle Childhood Teaching Strategies and Classroom Management Techniques

9 Total Hours
SPECIAL EDUCATION
P - 4 OR 4 - 12 LICENSURE ENDORSEMENT

CERTIFICATE OF PROFICIENCY

MAJOR CODE: 3583 (P-4)
MAJOR CODE: 3584 (7-12)

This is a post-graduate, added endorsement licensure program consisting of 21 semester hours at either the P-4 or the 4-12 grade level. The candidate for this plan of study must be accepted into UAFS teacher education program or hold either an initial or standard P-4 or 7-12 teaching license. Typically the courses will be scheduled for students to begin the program during a summer with completion in the fall of the following year.

Course Requirements

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>SPED 3203 Nature and Needs of Students with Mild Disabilities</td>
</tr>
<tr>
<td>3</td>
<td>SPED 3313 Language Development</td>
</tr>
<tr>
<td>3</td>
<td>SPED 3413 Classroom and Group Management</td>
</tr>
<tr>
<td>3</td>
<td>SPED 3423 Educational Diagnosis and Assessment</td>
</tr>
<tr>
<td>3</td>
<td>SPED 4213 Instructional Planning P-4 or SPED 4223 Instructional Planning 4-12</td>
</tr>
<tr>
<td>3</td>
<td>SPED 4343 Methods and Materials P-4 or SPED 4353 Methods and Materials 4-12</td>
</tr>
<tr>
<td>3</td>
<td>SPED 4903 Directed Internship P-4 or SPED 4913 Directed Internship 4-12</td>
</tr>
</tbody>
</table>

21 Total Hours

Prior to completion of the program, candidates for P-4 licensure must pass the following Praxis II exams: Special Education: Knowledge Based Core Principles and Special Education: Preschool/Early Childhood. Candidates for 4-12 licensure must pass the following Praxis II exams: Special Education: Knowledge Based Core Principles and Special Education: Application of Core Principles.

Teaching English as a Second Language (TESL) Endorsement

The certificate of proficiency in TESL is awarded by the College of Languages and Communication upon completion of the prescribed curriculum. The candidate for the TESL endorsement, grades P-12, must be accepted into the UAFS teacher education program or hold an initial or standard teaching license. Students who meet these criteria may be recommended to the Arkansas Department of Education upon completion of the requirements below.

Course Requirements

Required 12 hours of core courses

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>ENGL 4313/FORL 4313 Second Language Teaching Methods</td>
</tr>
<tr>
<td>3</td>
<td>ENGL 4323/FORL 4323 Second Language Acquisition</td>
</tr>
<tr>
<td>3</td>
<td>ENGL 4333/FORL 4333 Second Language Assessment</td>
</tr>
<tr>
<td>3</td>
<td>ENGL 4353/FORL 4343 Teaching People of Other Cultures</td>
</tr>
</tbody>
</table>

3 Choose three hours from the following courses:

- ENGL 130V/FORL 130V Language and Culture: United States
- ENGL 3663 English Grammar
- FORL 2313 Portuguese for Spanish Speakers
- FREN 2313 Intermediate French II
- GERM 2313 Intermediate German II
- SPAN 2813 Intermediate Spanish II
- Any upper-level World Language course

15 Total Hours

ASSOCIATE OF APPLIED SCIENCE DEGREE
CONCENTRATION IN EARLY CHILDHOOD EDUCATION

MAJOR CODE: 3553

This is a terminal degree program designed primarily for preschool workers and P-4 teaching assistants or para-professionals who are not interested in seeking entrance into a baccalaureate program. Although some of the courses will not transfer to a baccalaureate program, classes are specifically designed to address pre-school and early childhood education. A unique feature of this degree is the coursework leading to a child development associate certificate (CDA) that is required by some childcare facilities in connection with government restrictions. Faculty who teach these courses can supply further information. To summarize, students who graduate from this program will receive an associate of applied science degree and will qualify for the CDA credential assessment.
### Freshman Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>ENGL 1203</th>
<th>Freshman English I</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MATH 1303</td>
<td>College Mathematics or MATH 1403 as a prerequisite</td>
</tr>
<tr>
<td></td>
<td>MATH 1403</td>
<td>College Algebra, or MATH with MATH 1403 as a prerequisite</td>
</tr>
<tr>
<td></td>
<td>ITA 1003</td>
<td>Computer Applications for the Knowledge Worker</td>
</tr>
<tr>
<td></td>
<td>ECED 1401</td>
<td>Early Childhood Field Experience I</td>
</tr>
<tr>
<td></td>
<td>ECED 2023</td>
<td>Foundations of Early Childhood Education</td>
</tr>
<tr>
<td></td>
<td>ECED 2033</td>
<td>Child Development</td>
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</tbody>
</table>

### Freshman Year Spring Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>ENGL 1213</th>
<th>Freshman English II</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ECED 1304</td>
<td>Developmentally Appropriate Practice in ECE</td>
</tr>
<tr>
<td></td>
<td>ECED 1411</td>
<td>Early Childhood Field Experience II</td>
</tr>
<tr>
<td></td>
<td>ECED 2023</td>
<td>Foundations of Early Childhood Education</td>
</tr>
<tr>
<td></td>
<td>SPAN 1304</td>
<td>Beginning Spanish I</td>
</tr>
</tbody>
</table>

### Sophomore Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>PSYC 1163</th>
<th>General Psychology or SOCI 2753</th>
<th>Introduction to Sociology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECED 2003</td>
<td>Guidance and Behavioral Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECED 1421</td>
<td>Early Childhood Field Experience III</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDUC 2003</td>
<td>Essential Science and Math in ECE</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fine Arts requirement</td>
<td>1 &amp; 2</td>
<td></td>
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</table>

### Sophomore Year Spring Semester – 13 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>SOCI 2753</th>
<th>Introduction to Sociology or PSYC 1163</th>
<th>General Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ECED 1431</td>
<td>Early Childhood Field Experience IV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECED 2083</td>
<td>Essential ECED Literacy and Language</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECED 2093</td>
<td>Health, Safety, and Nutrition for Young Learners</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HLTH 2953</td>
<td>First Aid</td>
<td></td>
</tr>
</tbody>
</table>

60 Total Hours

*Notes
1. Program Requirements: select one fine arts course from HUMN 2563, MUSI 2763, or ART 2863.
2. These courses are used to determine major courses in residency, see Graduation requirements. Student must maintain 2.50 cumulative GPA in these courses.

**CHILD DEVELOPMENT ASSOCIATE (CDA) CERTIFICATE DEGREE REQUIREMENTS**

This program is designed to prepare individuals for the preschool or infant/toddler CDA credential assessment through the Council for Early Childhood Professional Recognition. Emphasis is placed on theories of childhood development; physical, emotional, and social growth of children; and creating learning environments for children from birth to age eight. Those who complete the program receive a continuing education certificate of proficiency and then qualify for the CDA credential assessment. Those individuals interested in this certificate should contact the CDA program director at (479) 788-7917.
The College of Health Sciences offers outstanding educational programs and is dedicated to preparing graduates to be leaders within their chosen discipline. Through a learning-centered approach to instruction, the College offers programs that integrate theory, innovative practice, and technology in classroom, laboratory, and clinical settings. All degree programs provide a foundation in general education so graduates are informed about current and future trends in healthcare and can respond to challenges in the workplace. The College of Health Sciences promotes educational opportunities for career advancement, employment mobility, and lifelong learning.

The College of Health Sciences offers the majors and degrees indicated below.

**BACHELOR'S DEGREES**
- Imaging Sciences (BS) with tracks in:
  - Diagnostic Medical Sonography
  - Management
- Nursing (BSN)

**ASSOCIATE OF APPLIED SCIENCE**
The associate of applied science (AAS) degree provides the student a degree in a chosen major and is intended for students who plan to enter the workforce after completion of program requirements. Select AAS degree programs may articulate with a bachelor's degree in the College of Health Sciences. The AAS degree is awarded in the following areas:
- Dental Hygiene
- Nursing Technology (ADN)
- Radiography
- Surgical Technology

**TECHNICAL CERTIFICATE**
The technical certificate program provides the student a concentration in a specific technical area and is intended for the student who plans to enter the workforce after completion of program requirements. Some technical certificates may lead to an associate and/or a bachelor's degree through UAFS. The technical certificate is awarded in:
- Practical Nursing (PN)

**ADMISSION TO HEALTH SCIENCES PROGRAMS**
Students intending to enroll in an associate of science or technical certificate in the College of Health Sciences (CHS) should address inquiries to a professional advisor in Student Advisement and Career Planning. Students interested in Bachelor of Science programs should address inquiries to the coordinator of academic support services of the CHS. Upon declaring a major in a CHS Bachelor of Science program, a CHS faculty advisor will be assigned to each student. Admission into these programs is highly competitive and selective. Meeting the minimum criteria for admission
or taking required courses from a designated degree plan does not guarantee admission into a program. Preadmission examinations are required for most programs, and students must register in advance for scheduled testing dates.

Many clinical facilities require a criminal background check and/or drug screen on CHS students and have the authority to deny clinical training in their facility, secondary to the outcome of either screening. Students unable to practice in any clinical agency because of an adverse or negative background check will be unable to complete the program objectives, thereby revoking admission into a program or halting continued progression in the student’s program of study.

The College of Health Sciences recognizes its responsibility to provide a healthy environment within which students may learn and prepare themselves to become members of the healthcare profession. The College is committed to protecting the safety, health, and welfare of faculty, staff, and students, and people who come into contact with them during scheduled learning experiences. A policy for the prevention and management of substance abuse has been adopted to assure attainment of the educational mission of the University and the College of Health Sciences. For more information, contact the College of Health Sciences at (479) 788-7841.

**Imaging Sciences**

**BACHELOR OF SCIENCE (BS) DEGREE**

Imaging sciences (BS) is a two-track completion program which will prepare highly competent imaging practitioners for professional careers in a dynamic healthcare environment. The two tracks offered in imaging sciences are 1) management and 2) diagnostic medical sonography. Both degrees build upon the AAS degree in radiography. This baccalaureate program provides the educational foundation for registered radiographers to expand their career opportunities, while providing the community with quality healthcare practitioners in imaging sciences. The BSIS program allows registered radiographers to receive academic credit for previous radiography education and experience. At the professional level, the baccalaureate degree in imaging sciences will integrate liberal arts and imaging sciences education to foster critical thinking, human diversity, written and oral communication, and leadership in a collaborative and interdisciplinary mode.

**Imaging Sciences-Diagnostic Medical Sonography**

**BACHELOR OF SCIENCE (BS) DEGREE**

**ADMISSION REQUIREMENTS**

I. Completion of a JRCERT-approved associate degree program in radiography OR receiving credit by articulation. Registered radiologic technologists who do not possess an associate degree may receive 40 imaging sciences credit hours by providing documentation of the following three requirements:

A. Graduation from a JRCERT-approved school of radiologic technology

B. A passing score on the American Registry of Radiologic Technologists (ARRT) certification examination

C. Successful academic performance (“C” or better) on 15 credit hours of the BSIS general education curriculum

II. A current valid and unencumbered radiography license if a resident of the state of Arkansas or resident of any state requiring a license.

III. Be in good standing with the ARRT.

IV. Submit documentation of immunization requirements: current tuberculin test, current tetanus, measles/rubella, Hepatitis B (complete series or waiver), Varicella or documentation of prior illness.

V. Submit current CPR for Healthcare Provider certification.

VI. Ability to meet physical requirements of clinical education.

VII. An overall GPA of 2.5 is required for admission into the program. A grade of “C” or better in previous radiography coursework is required. Students must complete an application to UAFS and must apply to and be accepted into the Diagnostic Medical Sonography (DMS) program. Contact the College of Health Sciences, Imaging Sciences, for an application and additional details.

Admission into the DMS program is selective. A maximum of eight (8) students will be admitted each fall.
Selection Criteria (selection criteria are converted to a point system for ranking purposes):
1. Cumulative GPA for all college-level work.
2. Two (2) letters of recommendation (one must be from the applicant's radiography program director or employment supervisor).
3. Personal interview.
4. Place of residence.
5. Selection preference is given to those who are near successful completion of the general education curriculum and the imaging sciences core courses.

DIAGNOSTIC MEDICAL SONOGRAPHY
BACHELOR OF SCIENCE (BS) DEGREE REQUIREMENTS

MAJOR CODE: 2066

English Composition – 6 hours
(Select one sequence)
6 ENGL 1203 Freshman English I
    1213 Freshman English II
6 ENGL 1233 Honors Composition
    RHET 2863 Advanced Composition

Mathematics - 3 hours
3 MATH 1403 College Algebra or MATH with College Algebra as a prerequisite

Speech - 3 hours
3 SPCH 1203 Introduction to Speech Communication

Lab Science – 8 hours
4 BIOL 1523/1521 Anatomy and Physiology I/Lab
4 BIOL 1533/1531 Anatomy and Physiology II/Lab

Fine Arts – 3 hours
3 ART 2863 Survey of Art History I
    2873 Survey of Art History II
3 HUMN 2563 Humanities through the Arts
3 MUSI 2763 Music Appreciation

Humanities - 3 hours
3 ENGL 2783 American Literature to 1865
    2793 American Literature 1865 to Present
3 ENGL 2803 World Literature to 1750
    2813 World Literature 1750 to Present
3 PHIL 2753 Introduction to Philosophy

History/Government – 3 hours
3 HIST 2753 United States History I
    2763 United States History II
3 POLS 2753 American National Government

Social Sciences – 9 hours
(Select three courses from different areas)
3 ANTH 2803 Cultural Anthropology
3 ECON 2803 Principles of Macroeconomics
2813 Principles of Microeconomics
3 GEOG 2753 World Regional Geography
3 HIST 1123 Civilizations of the World to 1500
3 HIST 1133 Civilizations of the World since 1500
3 HIST 2753 United States History I
    2763 United States History II
    (if not already used)
3 POLS 2753 American National Government
    (if not already used)
3 PSYC 1163 General Psychology
3 PSYC 2963 Developmental Psychology: A Life Span
3 SOCI 2753 Introduction to Sociology

Credit for ARRT in radiography 40 hours

78 Total Hours

SUPPORT CORE COURSES
The following courses may be taken at any time once accepted into the diagnostic medical sonography program or by consent of the executive director of Imaging Sciences.

Hours
3 IS 3103 Legal & Ethical Considerations in Healthcare
3 IS 3113 Patient Information Management
3 IS 4103 Perspectives in Human Diversity
3 HLTH 3103 Pathophysiology

DIAGNOSTIC MEDICAL SONOGRAPHY
The DMS professional courses are sequential. Admission into the DMS program is required for enrollment into ISS courses.

The ISS courses below are used to determine major courses in residency, see Graduation Requirements section of catalog.

Fall Semester – 8 hours
Hours
3 ISS 3103 Acoustical Physics & Instrumentation
<table>
<thead>
<tr>
<th>Semester</th>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>11</td>
<td>3 ISS 3113</td>
<td>Cross-Sectional Anatomy for Sonographers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ISS 3102</td>
<td>Clinical Lab Practice</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td></td>
<td><strong>Spring Semester – 11 hours</strong></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ISS 3212</td>
<td>Acoustical Physics &amp; Instrumentation II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 ISS 3203</td>
<td>Abdominal Sonography I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 ISS 3213</td>
<td>Clinical Practice I</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 ISS 3223</td>
<td>Vascular Sonography I</td>
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<tr>
<td></td>
<td></td>
<td><strong>Summer Term – 6 hours (10 weeks)</strong></td>
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<tr>
<td></td>
<td></td>
<td>Hours</td>
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<td></td>
<td></td>
<td>3 ISS 4303</td>
<td>Obstetrical and Gynecological Sonography I</td>
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<tr>
<td></td>
<td></td>
<td>3 ISS 4323</td>
<td>Clinical Practice I</td>
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<td><strong>Fall Semester – 12 hours</strong></td>
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<td></td>
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<td>Hours</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>3 ISS 4413</td>
<td>Abdominal Sonography II</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 ISS 4402</td>
<td>Special Applications and Pathological Considerations</td>
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<td></td>
<td>4 ISS 4434</td>
<td>Clinical Practice III</td>
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<td>3 ISS 4433</td>
<td>Vascular Sonography II</td>
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<td><strong>Spring Semester – 8 hours</strong></td>
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<td></td>
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</tr>
<tr>
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<td></td>
<td>3 ISS 4513</td>
<td>Obstetrical and Gynecological Sonography II</td>
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<td></td>
<td>1 ISS 4501</td>
<td>Professional Seminar</td>
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<tr>
<td></td>
<td></td>
<td>4 ISS 4544</td>
<td>Clinical Practice IV</td>
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<tr>
<td></td>
<td></td>
<td><strong>Total Hours</strong></td>
<td>135</td>
</tr>
</tbody>
</table>

**Imaging Sciences - Management**

**BACHELOR OF SCIENCE (BS) DEGREE REQUIREMENTS INCLUDE**

I. Completion of a JRCERT-approved associate degree program in radiography OR receiving credit by articulation. Registered radiologic technologists who do not possess an associate degree may receive 40 imaging sciences credit hours by providing documentation of the following three requirements:

A. Graduation from a JRCERT-approved school of radiologic technology.

B. A passing score on the American Registry of Radiologic Technologists (ARRT) certification examination.

C. Successful academic performance (“C” or better) on 15 credit hours of the BSIS general education curriculum.

II. A current valid and unencumbered radiography license if a resident of the state of Arkansas or resident of any state requiring a license.

III. Be in good standing with the ARRT.

IV. An overall GPA of 2.5 is required for admission into the program. A grade of “C” or better in previous radiography coursework is required.

Students must complete an application to UAFS and must apply to and be accepted into the imaging sciences program. Contact the College of Health Sciences, Imaging Sciences Department, for an application and additional details.

**IMAGING SCIENCES - MANAGEMENT**

**BACHELOR OF SCIENCE (BS) DEGREE REQUIREMENTS**

**MAJOR CODE: 2065**

**English Composition – 6 hours**
(Select one sequence)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ENGL 1203</td>
<td>Freshman English I</td>
</tr>
<tr>
<td>1213</td>
<td>Freshman English II</td>
</tr>
<tr>
<td>6 ENGL 1233</td>
<td>Honors Composition</td>
</tr>
<tr>
<td>RHET 2863</td>
<td>Advanced Composition</td>
</tr>
</tbody>
</table>

**Mathematics - 6 hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 MATH 1403</td>
<td>College Algebra or MATH with College Algebra as a prerequisite</td>
</tr>
<tr>
<td>3 STAT 2503</td>
<td>Probability and Statistics I</td>
</tr>
</tbody>
</table>

**Speech - 3 hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 SPCH 1203</td>
<td>Introduction to Speech Communication</td>
</tr>
</tbody>
</table>

**Lab Science – 8 hours**

(select two courses from the following)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 BIOL 1153/1151</td>
<td>Biological Science/Lab</td>
</tr>
<tr>
<td>4 BIOL 1523/1521</td>
<td>Anatomy and Physiology I/Lab</td>
</tr>
<tr>
<td>4 BIOL 1533/1531</td>
<td>Anatomy and Physiology II/Lab</td>
</tr>
<tr>
<td>4 BIOL 2303/2301</td>
<td>General Botany/Lab</td>
</tr>
<tr>
<td>4 BIOL 2503/2501</td>
<td>General Microbiology/Lab</td>
</tr>
<tr>
<td>4 CHEM 1303/1301</td>
<td>Chemical Principles/Lab</td>
</tr>
<tr>
<td>8 CHEM 1403/1401</td>
<td>College Chemistry I/Lab</td>
</tr>
<tr>
<td>1413/1411</td>
<td>College Chemistry II/Lab</td>
</tr>
</tbody>
</table>
4 GEOL 1253/1251 Physical Geology/Lab
4 PHSC 2653/2651 Earth Science/Lab
4 PHSC 2713/2711 Physical Science/Lab
4 PHYS 2803/2811 College Physics I/Lab
4 PHYS 2823/2831 College Physics II/Lab
4 PHYS 2903/2911 University Physics I/Lab
4 PHYS 2923/2931 University Physics II/Lab

Fine Arts - 3 hours
3 ART 2863 Survey of Art History I
2873 Survey of Art History II
3 HUMN 2563 Humanities through the Arts
3 MUSI 2763 Music Appreciation

Humanities - 3 hours
3 ENGL 2783 American Literature to 1865
2793 American Literature
1865 to Present
3 ENGL 2803 World Literature to 1750
2813 World Literature
1750 to Present
3 PHIL 2753 Introduction to Philosophy

History/Government – 3 hours
3 HIST 2753 United States History I
2763 United States History II
3 POLS 2753 American National Government

Social Sciences - 9 hours
(Select three courses from different areas)
3 ANTH 2803 Cultural Anthropology
3 ECON 2803 Principles of Macroeconomics
2813 Principles of Microeconomics
3 GEOG 2753 World Regional Geography
3 HIST 1123 Civilizations of the World to 1500
1133 Civilizations of the World since 1500
3 HIST 2753 United States History I
2763 United States History II
(if not already used)
3 POLS 2753 American National Government (if not already used)
3 PSYC 1163 General Psychology
3 PSYC 2963 Developmental Psychology: A Life Span
3 SOCI 2753 Introduction to Sociology

Credit for ARRT in radiography 40 hours

81 Total Hours

SUPPORT CORE COURSES
The following courses may be taken at any time once accepted into the BSIS-Management program or by consent of the executive director of Imaging Sciences.

Hours
3 IS 3103 Legal & Ethical Considerations in Healthcare
3 IS 3113 Patient Information Management
3 IS 4103 Perspectives in Human Diversity
3 HLTH 4103 Research in the Health Sciences
3 RHET 3603 Writing for the Workplace
3 RHET 4603 Technical Reports

IMAGING SCIENCES - MANAGEMENT
ISM courses in the BSIS-Management program are offered as open enrollment and one or more may be taken each semester depending upon the prerequisites or corequisites. Consult the schedule of classes for course offerings each semester. The following is a suggested plan for program completion.

The ISM courses below are used to determine major courses in residency, see Graduation Requirements section of catalog.

Summer Term - 9 hours (10 weeks)

Hours
3 ISM 4313 Healthcare Systems
3 ISM 4413 Administration & Supervision in Diagnostic Imaging
3 ISM 4303 Quality Management in Diagnostic Imaging

Fall Semester – 9 hours

Hours
3 ISM 4203 Leadership Principles and Theories
3 ISM 4213 Leadership Practicum
3 ISM 4403 Independent Study

Spring Semester - 9 hours

Hours
3 ISM 4423 Risk Management
3 ISM 4513 Applied Research
3 ISM 4503 Internship

126 Total Hours
Nursing (BSN)

BACHELOR OF SCIENCE IN NURSING (BSN) DEGREE

Graduates of the BSN program are prepared to provide nursing care for individuals, families, populations, and communities within a variety of healthcare settings and to use evidenced-based practice to guide nursing interventions which promote, maintain, and restore health. Admission to the program is competitive and selective, and graduates are prepared to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN) upon successful completion of the program. Laboratory and clinical experiences are primarily scheduled during the day and may include some evening and weekend hours.

The Arkansas State Board of Nursing (ASBN) requires criminal background checks on graduates of nursing schools and has the authority to deny application for licensure to any person who has been convicted of a crime. A student who has been convicted of a crime must contact the ASBN.

The Arkansas State Board of Nursing Nurse Practice Act can be viewed, in its entirety, at www.arsbn.arkansas.gov/lawsRules/Pages/nursePracticeAct.aspx. Many healthcare facilities also require a criminal background check and drug screen. They also have the authority to deny clinical training in their facility. Students unable to practice in any clinical agency because of an adverse or negative background check will be unable to complete the program objectives, halting continued progression in the student’s program of study.

Students admitted into the BSN Program must submit the following additional documentation prior to fall or spring entry:

1. Health care provider statement/medical release form.
2. Proof of immunizations.
4. Criminal background check. Clinical facilities require a criminal background check on CHS students and have the authority to deny clinical training in their facility. Students unable to practice in any clinical agency because of an adverse or negative background check will be unable to complete the program objectives, halting continued progression in the student’s program of study.
5. Drug screen (admission to the BSN Program is contingent on a negative drug screen).

Students must first complete an application to enter UAFS and then apply to the BSN program. Admission into the BSN Program is competitive. Students who meet the minimum criteria identified above are eligible to submit an application for admission. Students are admitted each fall and spring semester. Contact the College of Health Sciences coordinator of academic support services at (479) 788-7841 for additional admission, progression and graduation requirements.

ADMISSION REQUIREMENTS

1. Complete university admission requirements to include submission of official transcripts from all colleges/universities attended.
2. Have a minimum 2.50 cumulative GPA for all college course work (including transfer work and excluding developmental courses).
3. Complete required prerequisite courses for the program with a minimum grade of “C” or higher in each course prior to fall or spring entry; prerequisite courses are the first three semesters as listed on the degree plan for a total of 47 hours.
4. Students may not register for any course more than twice and be eligible for admission to the nursing program.

BACHELOR OF SCIENCE IN NURSING DEGREE REQUIREMENTS

MAJOR CODE: 2018

Freshman Year First Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement 1 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td>MATH 1403 College Algebra or higher course 3</td>
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</table>
### Freshman Year Second Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td>English composition requirement 1 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Fine Arts requirement 1 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Social Sciences requirement 1 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>PSYC 2963 Developmental Psychology: A Life Span</td>
</tr>
<tr>
<td>4</td>
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<td>BIOL 1523/21 Anatomy &amp; Physiology I/Lab</td>
</tr>
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</table>

(Required admission into the BSN program. Admission is selective.)

### Sophomore Year First Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
<th>Courses</th>
</tr>
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<tbody>
<tr>
<td>4</td>
<td></td>
<td>BIOL 1533/31 Anatomy &amp; Physiology II/Lab</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>BIOL 1463/61 Microbiology &amp; Immunology/Lab</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>History/Government requirement 1 &amp; 3</td>
</tr>
<tr>
<td>4</td>
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<td>SPAN 1304 Beginning Spanish I</td>
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### Sophomore Year Second Semester – 15 hours

<table>
<thead>
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<th>*Notes</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td>HLTH 3103 Pathophysiology</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>NURS 2002 Information Technology in Nursing</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>NURS 2103 Introduction to Professional Nursing</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>NURS 3164 Health Assessment</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Humanities requirement</td>
</tr>
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</table>

### Junior Year First Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>7</td>
<td></td>
<td>NURS 3227 Foundations of Nursing Care</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>NURS 3113 Nursing Skills</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>PHAR 3203 General Pharmacology</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>NUTR 2523 Nutrition</td>
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</table>

### Junior Year Second Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td>STAT 2503 Probability and Statistics I</td>
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<tr>
<td>6</td>
<td></td>
<td>NURS 3236 Nursing Care of Women and Children</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>NURS 3337 Nursing Care of the Adult I</td>
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### Senior Year First Semester – 17 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td>12</td>
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<td>NURS 434C Nursing Care of the Adult II</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>HLTH 4103 Research in the Health Sciences (first 8 weeks)</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>NURS 4102 Healthy Aging (second 8 weeks)</td>
</tr>
</tbody>
</table>

### Senior Year Second Semester – 17 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td></td>
<td>NURS 4355 Nursing Care of the Critically Ill Adult</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>NURS 4458 Psychiatric and Community Health Nursing</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>NURS 4364 Leadership in Professional Nursing</td>
</tr>
</tbody>
</table>

128 Total Hours

At least 45 hours must be upper level

Notes:

1. General Education Core Requirements, see Graduation Requirements of this catalog. Follow requirements with these stipulations: social sciences-select one course excluding PSYC 1163.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must be admitted into the program.

3. Courses required for admission to the BSN program. Students must meet admission requirements and be officially admitted into the BSN Program. Please contact the College of Health Sciences coordinator of academic support services (479) 788-7841 for admission requirements and the application process for the College of Health Sciences.

### RN to BSN Online Completion

**BACHELOR OF SCIENCE IN NURSING (BSN) DEGREE**

The RN-BSN online completion curriculum, designed for the registered nurse, facilitates educational mobility, personal growth, and lifelong learning, providing a foundation for graduate study.

The National League for Nursing Accrediting Commission (NLNAC) serves as the accrediting agency for the RN-BSN online completion track. On an annual basis, the School of Nursing provides the NLNAC with information regarding tuition, fees, and the length of the track. The NLNAC may be contacted at 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326, telephone (404) 975-5000.
ADMISSION REQUIREMENTS

Admission to the UAFS RN-BSN Online Completion track is selective. In order to be considered for admission to the track, students must:

1. Complete the admission requirements to enter UAFS.
2. Submit an official transcript showing successful completion of an NLNAC accredited associate degree or diploma nursing program to the UAFS Records Office. Students graduating from a nursing program that is not NLNAC accredited will be evaluated on an individual basis.
3. Have a cumulative GPA of 2.50 with a grade of “C” or better in all college courses that apply toward the RN-BSN degree.
4. Have a current, unencumbered license as a registered nurse. A valid, unencumbered license must be maintained throughout the completion of the RN-BSN program.
5. Have evidence of work experience or satisfactory completion of an RN Refresher course according to the following guidelines:
   a. 0-12 months after graduation – no work experience required.
   b. >12 months after graduation – at least 1000 hours of nursing employment during the last 12 to 24 months or successful completion of an RN Refresher course approved by the UAFS Executive Director of the BSN Program.

RNs who have met these guidelines are eligible to receive credit for core nursing courses (30 credits) by validation (without testing).

- Completion of all general education courses is recommended prior to acceptance into the nursing program.
- Admission into the UAFS RN-BSN Online Completion track is required prior to enrollment in nursing courses.

Prior to registering for classes, RN-BSN students will be required to submit proof of the following:

1. Current license as a registered nurse.
2. Professional liability insurance with minimum limits of $1,000,000/incident and $3,000,000 aggregate.
4. A completed Student Health Statement/Medical Release form.
5. Official transcripts must be submitted to the UAFS Records Office.
6. Proof of immunizations.
7. Clinical facilities require a criminal background check on CHS students and have the authority to deny clinical training in their facility. Students unable to practice in clinical agencies because of an adverse or negative background check will be unable to complete the program objectives, halting continued progression in the student’s program of study.
8. Drug screen. Admission to the RN-BSN Online Completion track is contingent on a negative drug screen.

Students must complete an application to enter UAFS and then must apply as to the Carolyn McKelvey Moore School of Nursing as an RN-BSN student. Students are admitted each fall and spring semester. Completion of all general education and nursing support courses is required prior to acceptance as an RN-BSN online completion student. Contact the College of Health Sciences coordinator of academic support services at (479) 788-7481 for additional admission, progression and graduation requirements.

RN TO BSN ONLINE COMPLETION
BACHELOR OF SCIENCE IN NURSING (BSN) DEGREE REQUIREMENTS

MAJOR CODE: 2017

English Composition – 6 hours
3 ENGL 1203 Freshman English I
3 ENGL 1213 Freshman English II

Mathematics - 6 hours
3 MATH 1403 College Algebra or MATH with College Algebra as a prerequisite
3 STAT 2503 Probability and Statistics I

Rhetoric - 3 hours
3 RHET 3603 Writing for the Workplace

Speech - 3 hours
3 SPCH 1203 Introduction to Speech Communication
### Sciences - 16 hours
- **4 BIOL 1523/1521** Anatomy and Physiology I/Lab
- **4 BIOL 1533/1531** Anatomy and Physiology II/Lab
- **4 BIOL 1463/1461** Microbiology and Immunology/Lab
  (select one course from the following)
- **4 CHEM 1303/1301** Chemical Principles/Lab or higher
- **4 PHSC 2713/2711** Physical Science/Lab
- **4 GEOL 1253/1251** Physical Geology/Lab
- **4 PHSC 2653/2651** Earth Science/Lab
- **4 PHYS 2803/2811** College Physics/Lab or higher

### Fine Arts - 3 hours
- **3 ART 2863** Survey of Art History I
- **2873** Survey of Art History II
- **3 HUMN 2563** Humanities through the Arts
- **3 MUSI 2763** Music Appreciation

### Humanities - 3 hours
- **3 ENGL 2783** American Literature to 1865
- **2793** American Literature 1865 to Present
- **3 ENGL 2803** World Literature to 1750
- **2813** World Literature 1750 to Present
- **3 PHIL 2753** Introduction to Philosophy

### History/Government - 3 hours
- **3 HIST 2753** United States History I
- **2763** United States History II
- **3 POLS 2753** American National Government

### Social Sciences - 12 hours
- **3 PSYC 2963** Developmental Psychology: A Life Span
  (Select three courses from the following)
- **3 PSYC 1163** General Psychology
  (prerequisite for PSYC 2963)
- **3 ANTH 2803** Cultural Anthropology
- **3 ECON 2803** Principles of Macroeconomics
- **2813** Microeconomics
- **3 GEOG 2753** World Regional Geography
- **3 HIST 1123** Civilizations of the World to 1500
- **1133** Civilizations of the World since 1500
- **3 HIST 2753** United States History I
- **2763** United States History II (if not already used)
- **3 POLS 2753** American National Government
  (if not already used)
- **3 SOCI 2753** Introduction to Sociology

### Nursing Credit for RN Licensure - 30 hours

### REQUIREMENTS AFTER ACCEPTANCE AS AN RN-BSN ONLINE COMPLETION STUDENT
For upper-level NURS courses and HLTH 4103 Research in the Health Sciences, students must be accepted as an RN-BSN online completion student or have approval of the executive director of the Carolyn McKelvey Moore School of Nursing.

### SUGGESTED PROGRAM COMPLETION PLAN FOR SPRING ADMISSION

#### Spring Semester - 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>NURS 3164 Health Assessment (first 8 weeks) 1</td>
</tr>
<tr>
<td>2</td>
<td>NURS 4102 Healthy Aging (second 8 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>HLTH 3103 Pathophysiology (16 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>HLTH 4103 Research Health Sciences (first 8 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>NURS 4203 Nursing Information Systems (second 8 weeks) 1</td>
</tr>
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</table>

#### Summer I – 7 hours

<table>
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<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>NURS 4234 Nursing Concentration (10 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>NURS 4133 Professional Perspectives 1</td>
</tr>
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#### Summer II – 3 hours

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>NURS 4303 Leadership &amp; Management in Professional Nursing 1</td>
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#### Fall Semester – 17 hours

<table>
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<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>6</td>
<td>NURS 4656 Community as Client (16 weeks) 1</td>
</tr>
<tr>
<td>5</td>
<td>NURS 4705 Health Care Systems Mgt. (16 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>NURS 4603 Health Prom. &amp; Teaching (first 8 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>NURS 4903 Dimensions in Professional Practice (second 8 weeks) 1</td>
</tr>
</tbody>
</table>

### SUGGESTED PROGRAM COMPLETION PLAN FOR FALL ADMISSION

#### Fall Semester – 15 hours

<table>
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<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>NURS 3164 Health Assessment (first 8 weeks) 1</td>
</tr>
<tr>
<td>2</td>
<td>NURS 4102 Healthy Aging (second 8 weeks) 1</td>
</tr>
<tr>
<td>3</td>
<td>HLTH 3103 Pathophysiology (16 weeks) 1</td>
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</table>
3 HLTH 4103 Research Health Sciences (first 8 weeks) 1
3 NURS 4203 Nursing Information Systems (second 8 weeks) 1

**Spring Semester – 17 hours**

<table>
<thead>
<tr>
<th>Hours</th>
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</tr>
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<tbody>
<tr>
<td>6 NURS 4656 Community as Client (16 weeks)</td>
<td>1</td>
</tr>
<tr>
<td>5 NURS 4705 Health Care Systems Mgt. (16 weeks)</td>
<td>1</td>
</tr>
<tr>
<td>3 NURS 4133 Professional Perspectives (second 8 weeks)</td>
<td>1</td>
</tr>
<tr>
<td>3 NURS 4603 Health Promotion and Teaching (first 8 weeks)</td>
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**Summer I – 4 hours**

<table>
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<tr>
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<th>*Notes</th>
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</thead>
<tbody>
<tr>
<td>4 NURS 4234 Nursing Concentration (10 weeks)</td>
<td>1</td>
</tr>
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**Summer II – 6 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 NURS 4303 Leadership and Management in Professional Nursing</td>
<td>1</td>
</tr>
<tr>
<td>3 NURS 4903 Dimensions in Professional Practice</td>
<td>1</td>
</tr>
</tbody>
</table>

127 Total Hours
At least 45 hours must be upper level

Notes
1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.

Dental Hygiene
**ASSOCIATE OF APPLIED SCIENCE DEGREE**

Graduates of the dental hygiene program serve as consumer advocates for oral healthcare. They are an integral part of the dental team, able to provide instruction and therapeutic services in the prevention of oral diseases. The curriculum combines general education courses, science courses and professional courses to total 88 hours. Students experience didactic, laboratory, and clinical education. Successful completion of the program prepares the graduate for the regional clinical board examination and to write the National Board Examination to become a registered dental hygienist.

Admission to the program is highly selective. Students should consult Student Advisement concerning admission, progression, and graduation requirements. A grade of “C” or better is required in ALL courses applicable to this program. Enrollment in courses beginning with the DHYG prefix requires admission to the dental hygiene program.

**ADMISSION REQUIREMENTS**

1. Complete admission requirements to enter UAFS.
2. Submission of official transcripts from any college or university attended.
3. Meet minimum skill levels in reading and math according to one of the following criteria: Provide recent (within four years) ACT or COMPASS scores indicating no reading required and placement into MATH 1403 College Algebra or higher or provide college transcript(s) indicating acceptable reading and math placement.
4. Have a minimum 2.5 cumulative GPA for all college course work (excluding developmental courses).
5. Complete and submit application for admission into the Dental Hygiene program by the application deadline.
6. Complete required prerequisite courses for the Dental Hygiene program prior to the application deadline.
7. Take the Revised Psychological Services Bureau (PSB) Health Occupations Aptitude Examination.
8. Submit Dental Office Observation Verification Form; a minimum of 50 hours is required, 10 hours with a dentist and 40 hours with two dental hygienists from two different dental offices (no more than 25 hours observing a single hygienist). Verification forms may be used for two years after the dates of observation.
9. Must be 18 years of age prior to the August starting date.
10. Students admitted into the Dental Hygiene program must submit the following additional documentation:
   a. The Student Health Statement/Medical Release Form must be completed prior to the beginning of the program.
b. Proof of immunizations, criminal background check, and drug screening through Certified Background.

c. Documentation of CPR certification: American Heart Association CPR for Health Care Providers.

**JOB OPPORTUNITIES**

- Private Dental Practices
- Dental Supply and Product Companies
- Department of Health/Public Health
- Correctional Facilities
- Insurance Companies

**DENTAL HYGIENE**

**ASSOCIATE OF APPLIED SCIENCE DEGREE**

**MAJOR CODE: 2060**

**Prerequisites - 17 hours**

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3 CHEM 1303</td>
<td>Chemical Principles 3</td>
</tr>
<tr>
<td>1 MATH 1403</td>
<td>College Algebra or higher</td>
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<tr>
<td>4 BIOL 1463/1461</td>
<td>Microbiology and Immunology/Lab</td>
</tr>
<tr>
<td>4 BIOL 1523/1521</td>
<td>Anatomy and Physiology I/Lab</td>
</tr>
<tr>
<td>3 SOCI 2753</td>
<td>Introduction to Sociology</td>
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**First Semester - 17 hours**

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<tr>
<td>3 DHYG 1103</td>
<td>Pre-Clinical Dental Hygiene Theory</td>
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<tr>
<td>2 DHYG 1202</td>
<td>Pre-Clinical Dental Hygiene</td>
</tr>
<tr>
<td>3 DHYG 1313</td>
<td>Radiology</td>
</tr>
<tr>
<td>2 DHYG 1412</td>
<td>Oral Embryology and Histology</td>
</tr>
<tr>
<td>2 DHYG 1432</td>
<td>Head and Neck Anatomy</td>
</tr>
<tr>
<td>1 DHYG 1111</td>
<td>Dental Anatomy and Occlusion</td>
</tr>
<tr>
<td>4 BIOL 1533/1531</td>
<td>Anatomy and Physiology II/Lab</td>
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**Second Semester – 14 hours**

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<tr>
<td>3 DHYG 1113</td>
<td>Clinic I Theory</td>
</tr>
<tr>
<td>3 DHYG 1213</td>
<td>Dental Hygiene Clinic I</td>
</tr>
<tr>
<td>3 DHYG 1443</td>
<td>Pharmacology</td>
</tr>
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<td>General and Oral Pathology</td>
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<td>2 DHYG 1212</td>
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**Third Semester (Summer I) – 6 hours**

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**Fourth Semester (Summer II) - 9 hours**

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<tr>
<td>3 PSYC 1163</td>
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<tr>
<td>3 ENGL 1213</td>
<td>Freshman English II</td>
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<tr>
<td>3 SPCH 1203</td>
<td>Introduction to Speech Communication</td>
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**Fifth Semester - 14 hours**

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<tr>
<td>2 DHYG 2122</td>
<td>Clinic II Theory</td>
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<tr>
<td>4 DHYG 2224</td>
<td>Dental Hygiene Clinic II</td>
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<tr>
<td>3 DHYG 2463</td>
<td>Dental Materials</td>
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<td>1 DHYG 2311</td>
<td>Periodontology II</td>
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<td>2 DHYG 2512</td>
<td>Local Anesthesia and Nitrous Oxide</td>
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<tr>
<td>2 DHYG 2372</td>
<td>Dental Nutrition</td>
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**Sixth Semester - 11 hours**

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<tr>
<td>2 DHYG 2132</td>
<td>Clinic Theory III</td>
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<td>4 DHYG 2234</td>
<td>Dental Hygiene Clinic III</td>
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<td>2 DHYG 2522</td>
<td>Ethics and Practice Management</td>
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<tr>
<td>3 DHYG 2533</td>
<td>Community Dentistry and Dental Health Education</td>
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88 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.

2. ITA requirement. Select ITA 1003, or ITA 1051 and two from ITA 1101, 1201, or 1251.

**Emergency Medical Technology (EMT) - Basic**

This is an introductory program of emergency medical service systems and the basic principles of emergency care. Through didactic and clinical instruction, the EMT-Basic student will be prepared to write the National Registry EMT-Basic written and practical examinations.
Students will be prepared to be proficient in practical skills used in medical and trauma-related emergencies, such as airway management, patient assessment, spinal immobilization, oxygen therapy, defibrillation with AED (automatic external defibrillator), and patient-assisted medication administration. Students must complete an application to enter the University of Arkansas Fort Smith in order to register for this program.

ADMISSION REQUIREMENTS
1. Meet admission requirements of the University.
2. Have a high school diploma or GED.
3. Be at least 18 years of age at time of National Registry / State testing.
4. Hold current American Heart Association (CPR for the Health Care Provider) or American Red Cross (BLS for the Professional Rescuer) CPR certification

JOB OPPORTUNITIES
Acute-Care Hospitals
Emergency Rooms
Emergency Medical Services
Industries

EMERGENCY MEDICAL TECHNOLOGY (EMT)
Hours
8 EMT 1408 Emergency Medical Technology-Basic

8 Total Hours

Nursing Technology (ADN)
ASSOCIATE OF APPLIED SCIENCE DEGREE
The associate degree nursing program is a competency-based program that prepares selected individuals to function as registered nurses in health care settings. This program combines study at the University with planned, guided client-care experiences in local hospitals and healthcare agencies. Laboratory and clinical experiences are primarily scheduled during the day with some evening and weekend hours. Upon successful completion of the program, the student is eligible to apply to sit for the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Students should consult with Student Advisement concerning admission, progression, and graduation requirements. A grade of “C” or better is required in ALL courses applicable to this program. Enrollment in courses with an ADN prefix requires admission to the associate degree nursing program.

The Arkansas State Board of Nursing (ASBN) requires criminal background checks on graduates of nursing schools and has the authority to deny application for licensure to any person who has been convicted of a crime. A student who has been convicted of a crime must contact the ASBN.

The Arkansas State Board of Nursing Nurse Practice Act can be viewed, in its entirety, at www.arsbn.arkansas.gov/lawsRules/Pages. Many healthcare facilities also require a criminal background check and drug screen. They also have the authority to deny clinical training in their facilities secondary to any negative/adverse results on the background check and/or drug screen. Denial from any healthcare facility will result in revocation of admission and will halt progression in any nursing program.

The Arkansas State Board of Nursing and the National League for Nursing Accrediting Commission (NLNAC) serves as the accrediting agency for the associate degree nursing program. On an annual basis, the School of Nursing provides the NLNAC with information regarding tuition, fees, and the length of the program. The NLNAC may be contacted at 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326, telephone (404) 975-5000.

ADMISSION REQUIREMENTS
To be considered for admission to the program, students must meet the following criteria:
1. Complete university admission requirements to include submission of official transcripts from all colleges/universities attended.
2. Meet minimum skill levels in reading and math according to the following criteria:
   a. Course work indicating completion of MATH 1403 or higher.
   b. ACT or COMPASS reading scores (taken within the last four years) or course work indicating no reading required.
3. Have a minimum 2.50 cumulative GPA for all college course work (including transfer work and excluding developmental courses).
4. Students may not register for any course more than twice and be eligible for admission into the nursing program.
5. Complete required prerequisite courses for the ADN Program prior to fall entry (beginning with students signing the 2011-2012 degree plan).
6. Earn a minimum composite percentile score at the 60th percentile on the NLN Pre-Admission Exam (PAX-RN) prior to the application deadline *For more information about testing, go to http://www.uafotsmith.edu/Future/NLNPAXExam.

Students admitted into the ADN Program must submit the following additional documentation prior to fall entry:
1. Health care Provider statement/medical release form.
2. Proof of immunizations.
4. Criminal background check (see CHS Background Check Policy).
5. Drug screen

Admission
Admission into the ADN Program is competitive. Students who meet the minimum criteria identified above are eligible to submit an application for admission.

Application Deadline
The application deadline is May 15 for fall entry into the program. Eligible students must submit an application for admission to the Coordinator of Academic Support Services for the College of Health Sciences prior to the application deadline.

Selection
Selection is based on the following weighted system:
• 25%* - quality points earned for courses on ADN degree plan (college credit earned through CLEP or AP for a course will not be used for ranking purposes).
• 75%* - score earned on the NLN PAX-RN.

*Selection for those students with no prior college course work is based solely on the NLN PAX-RN score.

Job Opportunities
Acute-Care Hospitals Outpatient Hospitals
Clinics Physicians’ Offices Psychiatric Hospitals
Home Health Agencies Rehabilitation Hospitals
Nursing Homes

Nursing Technology (ADN)
Associate of Applied Science Degree
Major Code: 2016
Prerequisites - 7 hours

<table>
<thead>
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<tr>
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<td>BIOL 1523/1521</td>
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<td>CHEM 1303</td>
<td>Chemical Principles or higher chemistry course</td>
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First Semester - 15 hours

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<td>ADN 1508</td>
<td>Nursing Fundamentals 1 &amp; 2</td>
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<td>MATH 1403</td>
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Second Semester – 14 hours

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<td>ADN 151A</td>
<td>Adult Medical/Surgical I 1 &amp; 2</td>
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<td>BIOL 1463/1461</td>
<td>Microbiology and Immunology/Lab or higher microbiology/lab course 1</td>
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Third Semester – 18 hours

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<td>ADN 2719</td>
<td>Maternal, Child &amp; Mental Health 1</td>
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<td>ENGL 1203</td>
<td>Freshman English I</td>
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<td>3</td>
<td></td>
<td>PSYC 1163</td>
<td>General Psychology</td>
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<td>3</td>
<td></td>
<td>SOCI 2753</td>
<td>Introduction to Sociology or ANTH 2803</td>
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Fourth Semester - 18 hours

<table>
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<td>ADN 2729</td>
<td>Advanced Adult Medical/Surgical II 1</td>
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<td>ADN 2773</td>
<td>Client Care Management 1</td>
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<td>Freshman English II</td>
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<td>3</td>
<td></td>
<td>PSYC 2963</td>
<td>Developmental Psychology: A Life Span</td>
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72 Total Hours
Notes:
1. These courses are used to determine major courses in residency, see Graduation requirements section of catalog.
2. LPN and paramedic students who are admitted to the ADN online option program will take ADN 154A Nursing Technology Transition instead of ADN 1508 and ADN 151A, with eight hours awarded for NURS 1508 after completion of ADN 154A. LPNs and paramedics must complete the following courses before enrollment in ADN 154A: MATH 1403 or higher MATH course, BIOL 1523/1521, BIOL 1533/1531, CHEM 1303 or higher chemistry course, BIOL 1463/1461 or higher microbiology/lab course. LPNs and paramedics must be admitted to the associate degree nursing program and successfully complete ADN 154A Nursing Technology Transition prior to enrolling in ADN 2719.

A grade of “C” or better is required in all courses in order to progress within the program.

Practical Nursing (PN)
TECHNICAL CERTIFICATE

This certificate program begins in August and is completed in twelve months. Admission to the program is highly competitive and selective. Classroom instruction at the University is coordinated with clinical experiences in the nursing care of clients at local hospitals and nursing homes. Upon successful completion of the program, the student is eligible to apply to sit for the National Council Licensure Examination for Practical Nurses (NCLEX-PN). The PN program is approved by the Arkansas State Board of Nursing (ASBN).

Students should consult with Student Advisement concerning admission, progression, and graduation requirements. A grade of “C” or better is required in ALL courses applicable to this program. Enrollment in courses beginning with an LPN prefix requires admission to the practical nursing program.

The ASBN requires criminal background checks on graduates of nursing schools and has the authority to deny application for licensure to any person who has been convicted of a crime. A student who has been convicted of a crime must contact the ASBN.

The Arkansas State Board of Nursing Nurse Practice Act can be viewed, in its entirety, at www.arsbn.arkansas.gov/lawsRules/Pages. Many healthcare facilities also require a criminal background check and drug screen. They also have the authority to deny clinical training in their facilities secondary to any negative/ adverse results on the background check and/or drug screen. Denial from any healthcare facility will result in revocation of admission and will halt progression in any nursing program.

ADMISSION REQUIREMENTS
1. Complete university admission requirements to include submission of official transcripts from all colleges/universities attended
2. Meet minimum skill levels in reading and math according to the following criteria:
   a. Course work indicating placement into MATH 1203 Intermediate Algebra or higher
   b. ACT or COMPASS reading scores (taken within the last four years) or course work indicating no reading required
3. Have a minimum 2.00 cumulative GPA for ALL college course work (including transfer work and excluding developmental courses)
4. Earn a minimum composite percentile score at the 60th percentile on the NLN Pre-Admission Exam (PAX-PN or PAX-RN) prior to the application deadline. For more information about testing, go to http://www.uafs.edu/testing/national-league-nursing-pax-exam.
5. Students may not register for any course more than twice and be eligible for admission to the nursing program.

Students admitted into the PN program must submit the following additional documentation:
1. Health care Provider statement/medical release form
2. CPR Certification: American Heart Association CPR for Healthcare Providers.
3. Proof of immunizations.
4. Criminal background check (see CHS Background Check Policy).
5. Drug screen.
Application

Admission into the PN Program is competitive. Students who meet the minimum criteria identified above are eligible to submit an application for admission.

1. The application deadline is June 1 for fall entry into the program.
2. Eligible students must submit an application for admission to the Coordinator of Academic Support Services for the College of Health Sciences prior to the application deadline.

Selection

Selection is based on the following system:

• Quality points earned for courses on PN degree plan (college credit earned through CLEP or AP for a course will not be used for ranking purposes).

• Score earned on the NLN PAX-PN or PAX-RN.*

*Selection for those students with no prior college course work is based solely on the NLN PAX-PN or PAX-RN score.

JOB OPPORTUNITIES

- Acute-Care Hospitals
- Outpatient Hospitals
- Clinics
- Physicians’ Offices
- Psychiatric Hospitals
- Home Health Agencies
- Rehabilitation Hospitals
- Nursing Homes

PRACTICAL NURSING TECHNICAL CERTIFICATE

MAJOR CODE: 2013

First Semester - 24 hours

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<th>Description</th>
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<tr>
<td>10 LPN</td>
<td>118A Fundamentals I (first 8 wks)</td>
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<td>4 BIOL</td>
<td>1433/1431 Basic Anatomy and Physiology/Lab</td>
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<tr>
<td>10 LPN</td>
<td>119A Fundamentals II (second 8 wks)</td>
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Second Semester - 23 hours

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<td>10 LPN</td>
<td>121A Medical/Surgical I (first 8 wks)</td>
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<tr>
<td>10 LPN</td>
<td>122A Medical/Surgical II (second 8 wks)</td>
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<td>3 HLTH</td>
<td>1473 Medical Terminology</td>
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Summer Term - 14 hours

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<td>14 LPN</td>
<td>123E Medical/Surgical III with Specialities</td>
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61 Total Hours

A grade of “C” or better is required in all courses applicable to this program.

Radiography

ASSOCIATE OF APPLIED SCIENCE DEGREE

This two year, 77 credit hour program prepares graduates to write the national certification examination in radiography. This program combines didactic and clinical instruction. Students are trained in the art and science of using radiation to provide images of tissues, bones, and blood vessels of the human body.

Admission to the program is highly selective. Students should consult Student Advisement concerning admission, progression, and graduation requirements. It is recommended that all general education courses be completed prior to entering the radiography program. A grade of “C” or better is required in ALL courses applicable to this program. Enrollment in courses beginning with the RADT prefix requires admission to the radiography program.

JOB OPPORTUNITIES

- Acute-Care Hospitals
- Clinics
- Industrial Radiography
- Mobile Radiography Services
- Outpatient Surgery Centers
- Physicians’ Offices
- Sales and Services

RADIOGRAPHY

ASSOCIATE OF APPLIED SCIENCE DEGREE

MAJOR CODE: 2040

Prerequisites - 13 hours

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<td>1203 Freshman English I</td>
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<td>3 MATH</td>
<td>1403 College Algebra or higher</td>
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First Semester (Fall I) - 14 hours

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<td>RADT 1104</td>
<td>Introduction to Radiography</td>
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<td>2</td>
<td>RADT 1112</td>
<td>Radiographic Procedures I</td>
<td>1</td>
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<td>4</td>
<td>RADT 1124</td>
<td>Clinical Education I</td>
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<td>4</td>
<td>BIOL 1533/1531</td>
<td>Anatomy and Physiology II/Lab</td>
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Second Semester (Spring I) - 13 hours

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<td>RADT 1202</td>
<td>Radiographic Exposure I</td>
<td>1</td>
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<td>2</td>
<td>RADT 1212</td>
<td>Radiographic Procedures II</td>
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<td>4</td>
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<td>Clinical Education II</td>
<td>1</td>
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<td>2</td>
<td>RADT 1232</td>
<td>Radiation Physics</td>
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Third Semester (Summer I) (10 Weeks) - 7 hours

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<td>RADT 1302</td>
<td>Radiographic Exposure I</td>
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<td>2</td>
<td>RADT 1312</td>
<td>Radiographic Procedures III</td>
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Fourth Semester (Fall II) - 14 hours

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<td>RADT 2412</td>
<td>Radiographic Procedures IV</td>
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<td>4</td>
<td>RADT 2424</td>
<td>Clinical Education IV</td>
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<td>2</td>
<td>RADT 2432</td>
<td>Principles of Radiation Biology/Protection</td>
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<td>3</td>
<td>PSYC 1163</td>
<td>General Psychology or SOCI 2753</td>
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<td>ENGL 1213</td>
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Fifth Semester (Spring II) - 11 hours

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<td>RADT 2502</td>
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<td>RADT 2512</td>
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Sixth Semester (Summer I) (10 Weeks) - 5 hours

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<td>RADT 2611</td>
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<td>RADT 2623</td>
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77 Total Hours

*Notes:
1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.
2. ITA requirement. Select ITA 1003, or ITA 1051 and two from ITA 1101, 1201, or 1251.
   A grade of “C” or better is required in all courses applicable to this program.

Surgical Technology

ASSOCIATE OF APPLIED SCIENCE DEGREE

The curriculum prepares students to function in the operating room by combining classroom instruction and campus laboratory instruction with actual surgical suite experience. Successful completion of the program prepares the graduate to write the National Certification Examination to become a certified surgical technologist (CST).

Admission to the program is highly selective. Consult Student Advisement concerning admission, progression, and graduation requirements. A grade of “C” or better is required in ALL courses applicable to this program. All prerequisite courses must be completed prior to enrollment in surgical technology in August. Enrollment in courses beginning with a SUR prefix requires admission to the surgical technology program.

ADMISSION REQUIREMENTS
1. Complete admission requirements to enter UAFS.
2. Meet minimum skill levels in reading and math according to one of the following criteria:
   a. Provide recent (taken within the last four years) ACT or COMPASS scores Indicating no reading required and placement into MATH 1203 Intermediate Algebra or higher.
   b. Provide college transcript(s) with acceptable reading and math placement.
3. Take the Revised Psychological Services Bureau (PSB) Health Occupations Aptitude Examination

4. Complete and submit application for admission into the Surgical Technology program by the application deadline.

5. Students admitted into the Surgical Technology program must submit the following additional documentation.
   a. The student health statement/medical release form must be completed prior to the beginning of the program.
   b. Proof of immunizations (immunization records must be on file in our office).
   c. Documentation of CPR certification: American Heart Association CPR for Health Care Providers.
   d. Criminal background check.
   e. Drug screen.

**JOB OPPORTUNITIES**

- Ambulatory Surgery Suites
- Surgical Units in Acute-Care Hospitals
- Private Surgical Technologist (employed by surgeons)
- Surgical Clinics (Ophthalmology, Oral Surgery)
- Sterile Processing Manager
- Traveling Surgical Technologist
- Supplies Manager

**SURGICAL TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE DEGREE**

**MAJOR CODE: 2046**

**First Semester - 15 hours**

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**Second Semester - 14 hours**

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**Third Semester (Summer) - 4 hours**

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**Fourth Semester - 16 hours**

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<tr>
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**Fifth Semester - 16 hours**

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65 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.

2. ITA requirement, three hours. May take ITA 1003, or ITA 1051 and two courses from ITA 1101, 1201, or 1251.

3. Course must be successfully completed before admission to the surgical technology program and enrollment in SUR courses.

A grade of “C” or above is required for ALL courses applicable to the AAS in Surgical Technology.
The College of Humanities and Social Sciences offers a comprehensive education in the liberal arts with specialization in a variety of disciplines. Degree programs are designed to help students integrate, synthesize, and apply knowledge in real-life situations and to help them develop leadership skills. Students may augment their education by selecting a minor area of study from within the College or from other colleges in the University. Through mastery of a primary discipline, students acquire a broad understanding of the world in which they live.

The College of Humanities and Social Sciences offers the degrees, majors, and minors indicated below.

**BACHELOR OF ARTS (BA) DEGREE**
- History
- Music
- Psychology

**BACHELOR OF SCIENCE (BS) DEGREE**
- Criminal Justice
- Graphic Design

The College of Humanities and Social Sciences, in partnership with the College of Education, offers the following program:
- History with Social Studies teacher licensure 7-12

**BACHELOR OF MUSIC EDUCATION (BME) DEGREE**
The College of Humanities and Social Sciences, in partnership with the College of Education, offers the following programs:
- Music Education
  - Instrumental Music P-8 and 7-12
  - Vocal Music P-8 and 7-12

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**
- Crime Scene Investigation
- Law Enforcement Administration
- Criminal Justice
- Philosophy
- Political Science
- Psychology
- Sociology
- Studio Art
- Theatre

**MINORS**
- Anthropology
- Criminal Justice
- Geography
- Historical Interpretation
- History
- Music

**TECHNICAL CERTIFICATE**
- Crime Scene Investigation
- Law Enforcement Administration

**CERTIFICATE OF PROFICIENCY**
- Crime Scene Investigation
- Law Enforcement Administration
Anthropology

ANTHROPOLGY MINOR
MINOR CODE: A022

The minor in anthropology requires 18 credit hours. Each course in the minor must be completed with a grade of “C” or better.

Required 12 hours:

- ANTH 2203 Introduction to Archaeology
- ANTH 2303 Introduction to Biological Anthropology
- ANTH 2803 Introduction to Cultural Anthropology
- ANTH 3823 Anthropological Perspectives

Select six hours from the following:

- ANTH 3213 World Prehistory
- ANTH 3313 Forensic Anthropology
- ANTH 3813 North American Indians
- ANTH 490V Special Topics (may be repeated up to 6 hours, provided topics differ)
- ANTH 493V Independent Study

Crime Scene Investigation

UAFS offers the crime scene investigation degrees to law enforcement officials who successfully complete the indicated courses from the state Criminal Justice Institute and successfully complete the indicated general education courses with a cumulative GPA of 2.00 or above.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE
MAJOR CODE: 4095

English Composition – 6 Hours

Hours
- 3 ENGL 1203 Freshman English I
- 3 ENGL 1213 Freshman English II

Mathematics – 3 Hours

Hours
- 3 MATH 1403 College Algebra or higher

Social Sciences (select one course) – 3 Hours

Hours
- 3 SOCI 2753 Introduction to Sociology
- 3 ANTH 2803 Cultural Anthropology
- 3 PSYC 1163 Introduction to Psychology
- 3 HIST 2753 United States History I
- 3 HIST 2763 United States History II
- 3 HIST 4153 History of Arkansas

General Electives (select from the following) – 10 Hours

Hours
- 4 BIOL 1153/1151 Biological Science/Lab
- 4 BIOL 1433/1431 Basic Anatomy and Physiology/Lab
- 3 SPCH 1203 Introduction to Speech Communication
- 3 LEGL 1043 Introduction to Law
- 4 SPAN 1304 Beginning Spanish I
- 3 POLS 2753 American National Government
- 3 *SOCI 2753 Introduction to Sociology
- 3 *ANTH 2803 Cultural Anthropology
- 3 *PSYC 1163 Introduction to Psychology
- 3 *HIST 2753 United States History I
- 2763 United States History II
- 3 *HIST 4153 History of Arkansas
- 3 STAT 2503 Probability and Statistics

* If not taken as a social sciences elective

Criminal Justice Institute Requirements – 38 hours

Hours
- 9 CJIC 1019 Crime Scene TCP
- 6 CJ 1216 Law Enforcement Training Academy
- 2 CJIC 1422 Recovery of Human Remains
- 3 CJIC 1433 Bloodstain Pattern Analysis
- 1 CJIC 1441 Management of Evidence and Recovery
- 1 CJIC 1451 Computer Crime
- 2 CJIC 1462 Crime Scene Digital Photography and Imaging
- 1 CJIC 1471 Fingerprint Comparison and Identification
- 1 CJIC 1481 Using Forensic Light Sources
- 1 CJIC 1491 Crime Scene Courtroom Testimony
- 1 CJIC 1301 Introduction to Computer*
- 1 CJIC 1311 Using Microsoft Word*
- 1 CJIC 1321 Using Microsoft Excel*
- 4 CJIC 2104 Advance CSTC
- 1 CJIC 1801 Survival Spanish for Law Enforcement
- 2 CJIC 2322 Crime Scene Interpretation and Reconstruction

(select one course from the following)
- 1 CJIC 2301 Advanced Management of Evidence and Recovery
- 1 CJIC 2311 Bloodstain Pattern Documentation

* May be substituted with computer courses offered by UAFS.

60 Total Hours
The Bachelor of Science degree in Criminal Justice is designed to give students and law enforcement practitioners an overview of the discipline during the first two years of study. The final years provide an opportunity for students to select from a variety of criminal justice course offerings and related interdisciplinary courses. This combination exposes students to a broad range of topics during their first two years, allowing them to select a specific sub-discipline of concentration in their final two years. The curricula and course work offered in this program were specifically developed in cooperation with major police agencies in the region and reflect a hands-on practical approach to Criminal Justice studies, while maintaining a rigorous academic experience. This balance equips students to function in a variety of criminal justice positions or as post-baccalaureate students in Criminal Justice, Criminology, Criminal Behavior, Police Management, Law, Public Policy, or Social Work.

**BACHELOR OF SCIENCE (BS) DEGREE**

**MAJOR CODE: 4097**

**Freshman Year Fall Semester – 16 Hours**

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**Freshman Year Spring Semester – 16 hours**

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**Sophomore Year Fall Semester – 15 hours**

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**Sophomore Year Spring Semester – 16 hours**

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<tr>
<td>4 CJ 2504</td>
<td>Criminalistics: An Introduction to Forensic Science</td>
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<td>3 CJ 2513</td>
<td>Juvenile Delinquency and Juvenile Justice</td>
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<td>3 CJ 2603</td>
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**Junior Year Fall Semester – 15 hours**

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**Junior Year Spring Semester – 15 hours**

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**Senior Year Fall Semester – 16 hours**

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**Senior Year Spring Semester – 16 hours**

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125 Total Hours

At least 45 hours must be upper level

**Notes**

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Elective courses. Consult with Advisor. Must select 27 upper-level hours in Criminal Justice; three hours of an upper-level humanities course, three hours of an upper-level history/government course, and nine hours of upper-level electives.
4. Must complete four hours of a world language.

**CRIMINAL JUSTICE MINOR**

**MINOR CODE: A017**

The minor in criminal justice requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of “C” or better. Students may declare a minor after the successful completion of SOCI 2753 Introduction to Sociology.

**Required 9 hours:**

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<tr>
<td>CJ 1013</td>
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<td>CJ 1253</td>
<td>Criminology</td>
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<td>CJ 2603</td>
<td>Courts and Criminal Procedure</td>
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**Select 9 hours:**

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<td>Organized Crime</td>
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<td>CJ 3213</td>
<td>Criminal Investigations</td>
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<tr>
<td>CJ 3363</td>
<td>Violent Offenders</td>
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<tr>
<td>CJ 3413</td>
<td>Psychology and Crime</td>
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<td>CJ 390V</td>
<td>Criminal Justice: Special Topics</td>
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<td>CJ 3913</td>
<td>Drugs and Crime</td>
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<tr>
<td>CJ 3923</td>
<td>Victimology</td>
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<td>CJ 4113</td>
<td>Professionalism and Ethics in Criminal Justice</td>
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<td>CJ 4833</td>
<td>Administrative Concepts in Law Enforcement</td>
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**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

**MAJOR CODE: 4096**

**Freshman Year Fall Semester – 16 Hours**

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**Freshman Year Spring Semester – 16 hours**

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(888) 512-5466 • (479) 788-7120
Sophomore Year Fall Semester – 15 hours
Hours *Notes
3 MATH 1403 College Algebra or higher
3 PSYC 1163 General Psychology
3 POLS 2753 American National Government
3 CJ 1253 Criminology 2
3 CJ 2403 Legal Aspects of Law Enforcement 2

Sophomore Year Spring Semester – 16 hours
Hours *Notes
3 POLS 2853 State and Local Government
3 SPCH 1203 Introduction to Speech Communication
4 CJ 2504 Criminalistics: An Introduction to Forensic Science 2
3 CJ 2513 Juvenile Delinquency and Juvenile Justice 2
3 CJ 2603 Courts and Criminal Procedure 2

63 Total Hours
*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a 2.0 GPA in these courses.

Select nine hours:
- GEOG 4903 Special Topics in Geography (may be repeated when topics differ for a total of 6 hours)
- GEOG 3103 Geography of Globalization
- GEOG 3113 Geography of International Migration
- Any upper-level GEOG courses

Graphic Design
The Graphic Design program prepares students to work in a wide variety of jobs -within the visual communication field. The program emphasizes creative and technical solutions to design problems encountered in the workplace, including logo, brochure, package, advertising and identity design, copywriting, photography direction, digital media, and illustration. Production, pre-press, and printing issues are also stressed. Upon completion of the program, the student will have a completed portfolio and be prepared to work for advertising agencies, design studios, television stations, corporate design firms, and other graphic-related industries.

JOB OPPORTUNITIES
- Graphic Designer
- Creative Director
- Art Director
- Freelance Illustrator
- Illustrator
- Web Designer
- Production Artist
- Freelance Artist

Bachelor of Science (BS) Degree
Major Code: 4063

Freshman Year Fall Semester – 15 Hours
Hours *Notes
3 ART 1213 2D Design 2
3 ART 1313 Drawing 2
3 ART 1223 Digital Imaging 2
3 English composition requirement 1
3 SPCH 1203 Introduction to Speech Communication

Freshman Year Spring Semester – 16 Hours
Hours *Notes
3 ART 1203 Color 2
3 ART 1403 3D Design 2
3 GRDS 1103 Introduction to Typography 2
1 GRDS 1001 Portfolio Admission 2
3 English composition requirement 1
3 Lower level Art History course 2

Geography

GEOGRAPHY MINOR
Minor Code: A024
The minor in geography requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of “C” or better. Completion of one of the following is required prior to declaring the minor: GEOG 2753 World Regional Geography, GEOG 2763 Physical Geography, or GEOG 2773 Human Geography.

Select a minimum of nine hours:
- GEOG 2753 World Regional Geography
- GEOG 2763 Physical Geography
- GEOG 2773 Human Geography
- CADD 1004 Introduction to Geographic Information Systems
### Sophomore Year Fall Semester – 15 Hours

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<td>3 GRDS 2243 Digital Illustration</td>
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<td>3 Lower-level Art History course</td>
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<td>3 Graphic Design lower-level elective</td>
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<td>3 Social sciences requirement</td>
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### Sophomore Year Spring Semester – 15 Hours

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<tbody>
<tr>
<td>3 GRDS 2253 Web Design I</td>
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<tr>
<td>3 GRDS 2103 Advanced Typography</td>
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<tr>
<td>3 ART 3863 History of Graphic Design</td>
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<td>3 GRDS 2343 Print &amp; Publication Design</td>
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<tr>
<td>3 MATH 1303 College Mathematics or MATH 1403 College Algebra or higher MATH</td>
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### Junior Year Fall Semester – 16 Hours

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<tbody>
<tr>
<td>3 ART 3313 Advanced Drawing</td>
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<td>3 Upper-level general education elective</td>
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<tr>
<td>3 GRDS 3403 Advertising Design I</td>
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<td>3 GRDS 3273 Motion Design</td>
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<td>4 Lab science requirement</td>
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### Junior Year Spring Semester – 16 Hours

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<tr>
<td>3 Graphic Design upper-level elective</td>
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<tr>
<td>3 GRDS 3323 Production Management/Prepress</td>
<td>2</td>
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<td>3 GRDS 3603 Packaging Design</td>
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<tr>
<td>3 History/Government requirement</td>
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<td>4 Lab science requirement</td>
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### Senior Year Fall Semester – 15 Hours

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<tr>
<td>3 GRDS 4313 Identity Design</td>
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<td>3 Humanities requirement</td>
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<td>3 Social Sciences requirement</td>
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<td>3 Graphic Design upper-level elective</td>
<td>2 &amp; 5</td>
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<td>3 GRDS 4323 Graphic Design Business Practices</td>
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### Senior Year Spring Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tr>
<td>4 GRDS 4914 Graphic Design Senior Thesis</td>
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<td>3 GRDS 4923 Graphic Design Senior Seminar</td>
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</tr>
<tr>
<td>3 Upper-level general education elective</td>
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<tr>
<td>3 Upper-level general education elective</td>
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1. General Education Core Requirements, see Graduation Requirements section of the catalog.
2. These courses will be used to determine major courses in residency, see Graduation Requirements section of catalog. A grade of “C” or better is required in Foundations, Studio Art, and GRDS courses. A cumulative GPA of 2.75 is required in all courses toward the major.
3. Graphic Design lower-level elective, three hours. Select one course from ART or GRDS 2000 level.
4. Upper-level general education elective, nine hours. Select three courses from ANTH, ENGL, HIST, PHIL, POLS, PSYC, RHET, and SOCI prefix (must meet course prerequisites). Consult with faculty advisor.
5. Graphic Design upper-level electives, six hours: Select two courses from ART 3000 or 4000 level, or GRDS 3000 or 4000 level.

---

**History**

The College offers a Bachelor of Arts in History with the option of a concentration in Historical Interpretation (see note 5 on degree plan). This degree prepares students for a variety of entry-level positions as well as pursuit of a graduate degree in History or other fields, such as law, political science, or public policy. In addition, the Bachelor of Science in History with Social Studies Teacher Licensure provides students with the educational preparation for teaching in the public schools.

**BACHELOR OF ARTS (BA) DEGREE**

**MAJOR CODE:** 2565  
**CONC. CODE:** C029 (GENERAL)  
**CONC. CODE:** C028 (HISTORICAL INTERPRETATION)

### Freshman Year Fall Semester – 16 hours

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<td>4 Lab science requirement</td>
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<tr>
<td>3 HIST 1123 Civilizations of the World to 1500 or</td>
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</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>------------</td>
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<tr>
<td>HIST 1133</td>
<td>Civilizations of the World since 1500</td>
</tr>
<tr>
<td>3 HIST 2753</td>
<td>US History I or</td>
</tr>
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<td>HIST 2763</td>
<td>US History II</td>
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### Freshman Year Spring Semester – 16 hours

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### Sophomore Year Fall Semester – 16 hours

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### Sophomore Year Spring Semester – 16 hours

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<td>4 &amp; 5</td>
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### Junior Year Fall Semester - 15 hours

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<td>3 World language requirement</td>
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<td>4 &amp; 5</td>
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### Junior Year Spring Semester – 15 hours

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<td>2 &amp; 3</td>
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<tr>
<td>3 History requirement</td>
<td>2 &amp; 3</td>
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<tr>
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### Senior Year Fall Semester – 15 hours

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<td>2,3,5</td>
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<tr>
<td>3 HIST 3803 Methods of Historical Research</td>
<td>2</td>
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<td>3 Minor requirement or additional degree requirement</td>
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### Senior Year Spring Semester - 15 hours

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<tr>
<td>3 Minor requirement or additional degree requirement</td>
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At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of the catalog. Follow requirements with the following stipulations: social sciences-select two courses from ANTH 2803, ECON 2803 or 2813, GEOG 2753, PSYC 1163, SOCI 2753.

2. These courses will be used to determine major courses in residency, see Graduation Requirements. Student must make a “C” or higher in each course to meet graduation requirements of history department.

3. History Requirements, 24 hours: Global History: six hours from the 3000, 3500, 3600, 4200, or
4300 series; European History: three hours from the 3100, 3200, or 3300 series; United States History: nine hours from the 3400 or 4100 series. Two additional three hour upper-level HIST electives (six hours) are required; consult with faculty advisor.

4. Additional degree requirements, 36 hours. Consult with faculty advisor. May choose a minor and a concentration in historical interpretation (see note #5) or a minor of at least 18 hours plus electives. Select courses to ensure completion of 45 upper level hours for graduation.

5. Historical Interpretation Concentration - 24 hours. Eighteen of the 36 additional degree requirements listed in note #4 in addition to the two upper-level history electives (6 hours) in note #3 for 24 hours total. Requirements: HIST 3903, 4503, 4524, 4554, 4564, 4573, 4953. HIST 4533 is not required for the historical interpretation concentration and is not used towards degree completion; however, it may be taken as an extra course.


7. HIST 4953 History Internship - Required for Historical Interpretation Concentration; an option as a history elective for general history concentration.

The department requires all history courses counted toward fulfillment of the degree requirements to be passed with a “C” or better. The department requires a minor for this degree.

HISTORY MINOR
MINOR CODE: A004

The minor in History requires 18 hours of courses. Each course must be completed with a grade of “C” or better.

Required nine hours:
HIST 1133 Civilizations of the World since 1500
HIST 2753 United States History I
HIST 4153 History of Arkansas

Select three hours of United States History:
HIST 3400 or 4100 series

Select six hours of World History:
HIST 3000, 3100, 3200, 3300, 3500, 3600, 4200, or 4300 series.

HISTORICAL INTERPRETATION MINOR
MINOR CODE: A014

The minor in Historical Interpretation requires 18-20 hours of courses. Each course must be completed with a grade of “C” or better.

Required 12 hours:
HIST 2753 United States History I
HIST 2763 United States History II
HIST 3903 Methods of Historic Site Interpretation

Select two courses:
HIST 4524 Basic Skills in Interpretation
HIST 4533 Travel Seminar
HIST 4554 Interpretation Planning
HIST 4564 Communicating through Exhibits
HIST 4573 Conservation of Heritage Resources

History with Social Studies
Teacher Licensure 7-12
BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3574

Freshman Year Fall Semester – 16 hours

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<td>MATH 1403 College Algebra or higher 1 &amp; 5</td>
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<td>3</td>
<td>HIST 2753/2763 US History I/II 2</td>
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<td>SPAN 1304 Beginning Spanish I</td>
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Freshman Year Spring Semester – 17 hours

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<td>HIST 2753/2763 US History I/II 2</td>
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<td>SPAN 1304 Beginning Spanish I 2 &amp; 3</td>
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Sophomore Year Fall Semester – 16 hours

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<tr>
<td>3</td>
<td>EDUC 2753 Introduction to Education/Field Experience 5 &amp; 7</td>
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<td>Lab science requirement 1</td>
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<td>POLS 2753 American National Government</td>
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<td>3</td>
<td>Fine Arts/Humanities/Social Sciences requirement 1</td>
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<td>Hours</td>
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<td>3 HIST 1133</td>
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<td>3 POLS 2853</td>
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Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

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<td>3 EDUC 3013</td>
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<td>2 EDUC 3112</td>
<td>Literacy Development in the Content Area</td>
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<td>1 EDUC 3221</td>
<td>Practicum I</td>
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<tr>
<td>3 HIST 4153</td>
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Junior Year Spring Semester – 17 hours

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<tr>
<td>2 EDUC 3612</td>
<td>Classroom and Behavioral Management</td>
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<tr>
<td>1 EDUC 4211</td>
<td>Practicum II</td>
<td>6 &amp; 7</td>
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<td>2 SPED 3022</td>
<td>Survey of Diverse Populations</td>
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<td>2 &amp; 3</td>
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<tr>
<td>3 HIST 3803</td>
<td>Methods of Historical Research</td>
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Senior Year Spring Semester – 12 hours

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<td>10 EDUC 490A</td>
<td>Teaching in the Secondary Schools</td>
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128 Total Hours
At least 45 of the hours must be upper-level

---

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
   Follow requirements with following stipulations:
   Lab science- BIOL 1153/1151 and GEOL 1253/1251 are required; social sciences- ECON 2803 and PSYC 1163 are required.

2. These courses are used to determine major courses in residency, see Graduation Requirements.
   Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. Social Studies and History Requirements, 30 hours. Social Studies: ANTH 2803, ECON 2813, GEG 2753, and SOCI 2753 are required. With advisor approval, select two courses from two different disciplines from upper level ANTH, ECON, POLS, PSYC, or SOCI U.S. History - select two courses from HIST 3413, 3423, 3433, 3443, 3453, 3463, 3473, 4113, 4123, or 4133; World History- select two courses from HIST 3053, 3063, 3103, 3203, 3213, 3303, 3503, 3513, 3603, 3613, 3623, 4203, 4213, 4303, 4313.

4. PHYE requirement - two hours (must select two courses): Select two courses from PHYE 1011, 1021, 1101, 1261, 1321, 1551, 1561, 1571, 1621, 2571, or 2853.

5. Requirements for Admission in Teacher Education Program (TEP): These must be completed with required grades for admission requirements.
   Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

6. Must be admitted to the College of Education, Teacher Education Program.
7. Program requirement - course must be completed with a grade of “B” or better.

The department requires all history courses counted toward fulfillment of the degree requirements to be passed with a “C” or better.

Law Enforcement Administration

UAFS offers the Law Enforcement Administration degree to law enforcement officials who successfully complete the indicated courses from the state Criminal Justice Institute and successfully complete the indicated general education courses with a cumulative GPA of 2.00 or above.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

MAJOR CODE: 4092

English Composition – 6 hours

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Mathematics – 3 hours

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Computer – 3 hours

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General Education – 15 hours

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<td>SOCI 2753</td>
<td>Introduction to Sociology</td>
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<td>3</td>
<td>POLS 2753</td>
<td>American National Government</td>
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<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
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<td>LEGL 1043</td>
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Criminal Justice Institute – 36 hours

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<td>CJI 1216</td>
<td>Law Enforcement Training Academy</td>
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<td>CJIL 1403</td>
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<td>CJIL 1423</td>
<td>Integrity in Law Enforcement</td>
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<td>3</td>
<td>CJIL 2313</td>
<td>Legal Aspects of Law Enforcement</td>
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<td>3</td>
<td>CJIL 2323</td>
<td>Varied Principles of Law Enforcement</td>
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<td>CJIL 2333</td>
<td>DWI Detection and Field Tests</td>
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<td>CJIL 2343</td>
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63 Total Hours

LAW ENFORCEMENT ADMINISTRATION TECHNICAL CERTIFICATE

MAJOR CODE: 4091

UAFS Requirements – 12 hours

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<td>MATH 1203</td>
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<td>SPCH 1203</td>
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<td>3</td>
<td>ITA 1003</td>
<td>Computer Applications for the Knowledge Worker</td>
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Criminal Justice Institute Requirements – 21 hours

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>9</td>
<td>CJIL 1019</td>
<td>Law Enforcement Supervision</td>
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<tr>
<td>6</td>
<td>CJI 1216</td>
<td>Law Enforcement Training Academy</td>
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<tr>
<td>3</td>
<td>CJIL 1403</td>
<td>Law Enforcement Administration and Management</td>
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<tr>
<td>3</td>
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<td>Integrity in Law Enforcement</td>
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33 Total Hours

LAW ENFORCEMENT ADMINISTRATION CERTIFICATE OF PROFICIENCY

MAJOR CODE: 4090

Certificate Requirements

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<td>9</td>
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<td>Law Enforcement Supervision</td>
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<tr>
<td>6</td>
<td>CJI 1216</td>
<td>Law Enforcement Training Academy</td>
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18 Total Hours
Music Programs

ADMISSION REQUIREMENTS FOR ALL MUSIC MAJORS

An audition demonstrating acceptable musical preparation is required prior to enrollment as a major in music. Students will be auditioned by an appropriate full-time music faculty member. Department requirements include recital attendance. Students who have little or no background in music theory will be required to pass MUSI 1183 Music Fundamentals with a minimum grade of “B” as a prerequisite to enrollment to MUSI 1223 Music Theory I.

Private instruction in the student’s major performance area is required of all music majors.

Music

The Bachelor of Arts in Music degree provides broad coverage of the field of music. Combined with a traditional liberal arts curriculum, this flexible degree program offers students the opportunity to tailor their studies to meet educational and career goals.

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2550

Freshman Year Fall Semester – 15 (16) hours

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<td>1 MUSI 1201 Sight Singing &amp; Ear Training I</td>
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<td>1 MUSR 14_1 Large Ensemble</td>
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<td>1 MUS_ 1252 Private Instruction</td>
<td>2</td>
<td>0 MUSI 1000 Recital Attendance</td>
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<tr>
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<td>(for non-piano majors)</td>
<td>(for non-piano majors)</td>
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Freshman Year Spring Semester – 16 (17) hours

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<td>(for non-piano majors)</td>
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Sophomore Year Fall Semester – 15 (16) hours

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<td>1 MUSC 2161 Class Piano</td>
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<td>(for non-piano majors)</td>
<td>(for non-piano majors)</td>
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Sophomore Year Spring Semester – 15 (16) hours

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<td>1 MUSI 2813 Music Theory IV</td>
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<td>2 MUS_ 1252 Private Instruction</td>
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<td>0 MUSI 1000 Recital Attendance</td>
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<td>0 MUSI 1000 Recital Attendance</td>
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Junior Year Fall Semester – 18 hours

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<td>3 SPCH 1203 Introduction to Speech Communication</td>
<td>Notes</td>
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<td>3 MUSI 3503 Music History I</td>
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<td>2 &amp; 3</td>
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<tr>
<td>3 Music concentration requirement</td>
<td>2 &amp; 3</td>
<td>3 Music concentration requirement</td>
<td>2 &amp; 3</td>
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<tr>
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<td>2 &amp; 3</td>
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Junior Year Spring Semester – 15 hours

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<tr>
<td>3 Fine Arts/Humanities/ Social Sciences requirement</td>
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</table>
### 3 MUSI 3513 Music History II 2 1 MUSC 2861 Fundamentals of Improvisation I
### 3 Music concentration requirement 2 & 3 1 MUSC 2871 Fundamentals of Improvisation II
### 3 Music concentration requirement 2 & 3 2 MUSI 3202 Commercial Music Arranging
### 3 Music concentration requirement 2 & 3 8 MUS_ 3252 Private Instruction (4 semesters)
### 3 Music concentration requirement 2 & 3 2 MUSR 3201 Jazz Lab Ensemble (2 semesters)
### 0 MUSI 3000 Recital Attendance 2 MUSI 4030 Senior Recital

#### Senior Year Fall Semester – 15 hours

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<tr>
<td>3 Music concentration requirement</td>
<td>2 &amp; 3</td>
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<tr>
<td>3 Music concentration requirement</td>
<td>2 &amp; 3</td>
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<tr>
<td>0 MUSI 3000 Recital Attendance</td>
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25 elective hours (21 must be upper-level and none may be music courses. A minor is required; follow respective minor requirements.)

#### Performance, Instrumental Concentration

**Conc. code: C016**

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3 MUSI 4443 Survey of American Music</td>
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<tr>
<td>1 MUSI 3841 Brass Instruments or 3851 Lower Woodwinds or 4861 Upper Woodwinds or 2821 Percussion Instruments</td>
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<tr>
<td>8 MUS_ 3252 Private Instruction (4 semesters)</td>
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</tr>
<tr>
<td>4 MUSI 3351 Instrumental Ensemble (4 semesters)</td>
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<tr>
<td>0 MUSI 4030 Senior Recital</td>
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</table>

26 elective hours (20/21 must be upper-level and only one or two hours may be music courses. A minor is required; follow respective minor requirements.)

Lower-level large ensemble must be MUSR 1441 Symphonic Band (four semesters)

#### Performance, Vocal Concentration

**Conc. code: C017**

<table>
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<th>Hours</th>
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<tbody>
<tr>
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<td>1 MUSI 2181 Diction for Singers I</td>
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<tr>
<td>1 MUSI 3181 Diction for Singers II</td>
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<tr>
<td>2 MUSI 3372 Vocal Pedagogy</td>
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</tr>
<tr>
<td>2 MUSI 3862 Vocal Performance Literature</td>
<td></td>
</tr>
<tr>
<td>8 MUSV 3252 Private Instruction (four semesters)</td>
<td></td>
</tr>
<tr>
<td>2 MUSR 1451/3451 Vocal Jazz or other small ensemble (two semesters)</td>
<td></td>
</tr>
<tr>
<td>0 MUSI 4030 Senior Recital</td>
<td></td>
</tr>
</tbody>
</table>

23 elective hours (20 must be upper-level and none may be music courses. A minor is required; follow respective minor requirements.)

#### Performance, Piano Concentration

**Conc. code: C018**

<table>
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<tbody>
<tr>
<td>3 MUSI 4443 Survey of American Music</td>
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<tr>
<td>2 MUSI 3352 Piano Pedagogy</td>
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</tr>
<tr>
<td>2 MUSI 3852 Piano Performance Literature</td>
<td></td>
</tr>
<tr>
<td>8 MUSP 3252 Private Instruction (4 semesters)</td>
<td></td>
</tr>
</tbody>
</table>

### Jazz Studies Concentration

**Conc. code: C015**

| 3 MUSI 3663 Jazz History and Style |
Individualized Program Concentration

Conc. code: C019

- MUSR 3471 Accompanying and Chamber Music (two semesters)
- MUSI 4030 Senior Recital
- 25 elective hours (21 must be upper-level and two hours may be music courses. A minor is required; follow respective minor requirements.)

MUSIC MINOR

MINOR CODE: A018

The minor in music requires 23 hours of coursework. An audition demonstrating acceptable musical preparation is required prior to declaring a minor in music. Students will be auditioned by an appropriate full-time music faculty member.

Basic Music classes (11 hours):
- MUSI 1201 Sight Singing and Ear Training I
- MUSI 1223 Music Theory I
- MUSI 1211 Sight Singing and Ear Training II
- MUSI 1233 Music Theory II
- MUSI 2763 Music Appreciation

Applied Music:
- 3 hours of private instruction, MUS_ 1251.
- 3 hours of upper-level private instruction, MUS_ 3251.

Select six hours:
- MUSI 3503 Music History I
- MUSI 3513 Music History II
- MUSI 3663 Jazz History and Styles
- MUSI 4443 Survey of American Music
- MUSI 1201 Sight Singing and Ear Training I
- MUSI 1223 Music Theory I
- MUSI 1211 Sight Singing and Ear Training II
- MUSI 1233 Music Theory II
- MUSI 2763 Music Appreciation

Students will be auditioned by an appropriate full-time music faculty member.

Music Education

Instrumental Music P-8 and 7-12

BACHELOR OF MUSIC EDUCATION (BME) DEGREE

MAJOR CODE: 3570 CONC. CODE: C008

Freshman Year Fall Semester – 17 (18) hours

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<tr>
<td>3</td>
<td>Mathematics requirement 1 &amp; 4</td>
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<td>3</td>
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<td>2</td>
<td>MUS_ 1252 Private Instruction 2</td>
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<tr>
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<td>MUSI 1000 Recital Attendance 2</td>
</tr>
<tr>
<td>1</td>
<td>MUSC 1161 Class Piano 7 (for non-piano majors)</td>
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</tbody>
</table>

Freshman Year Spring Semester – 15 (16) hours

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
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<td>MUS_ 1252 Private Instruction 2</td>
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Summer Term(s) – 6 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

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Sophomore Year Fall Semester – 18 (19) hours

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Sophomore Year Spring Semester – 16 (17) hours

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Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

Junior Year Fall Semester – 17 hours

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Junior Year Spring Semester – 16 hours

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Senior Year Fall Semester – 15 hours

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Senior Year Spring Semester – 12 hours

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132 Total Hours
At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: lab sciences-select BIOL 1153/1151 or 1523/1521 and select another without the prefix BIOL; fine arts-may not choose MUSI 2763; history/government-POLS 2753 is required and select either HIST 2753 or 2763.

2. These courses are used to determine major courses in residency. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. PHYE activity 2 hours. Select two activity courses: PHYE 1011, 1021, 1101, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.

4. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

5. Offered on a rotating schedule and may be taken out of sequence.
6. Must be admitted to the College of Education Teacher Education Program.
7. The department requires students to meet a piano proficiency. Students with little or no piano abilities will be required to pass (with a minimum grade of “C”) up to four hours of class piano (MUSC 1161, 1171, 2161, and 2171).
8. Program requirement - course must be completed with a grade of “B” or better.

## Music Education

### Vocal Music P-8 and 7-12

**BACHELOR OF MUSIC EDUCATION (BME) DEGREE**  
**MAJOR CODE: 3570  CONC. CODE: C007**

#### Freshman Year Fall Semester – 17 (18) hours

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<td>MUSI 1201 Sight Singing &amp; Ear Training I</td>
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<td>MUSI 1223 Music Theory I</td>
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<tr>
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<td>1461 Women's Chorus</td>
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<td>2</td>
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#### Freshman Year Spring Semester – 15 (16) hours

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### Summer Term(s) – 6 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

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#### Sophomore Year Fall Semester – 17 (18) hours

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<td>EDUC 2753 Introduction to Education/Field Experience</td>
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<td>FORL 1322 Beg. Conversational Spanish I</td>
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<td>MUSI 2781 Sight Singing &amp; Ear Training III</td>
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#### Sophomore Year Spring Semester – 17 (18) hours

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<td>MUSI 2841 Instrumental Concepts for Vocalists</td>
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<td>MUSI 2791 Sight Singing &amp; Ear Training IV</td>
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Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.
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<th>Junior Year Fall Semester - 17 hours</th>
<th>Senior Year Spring Semester – 12 hours</th>
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<tr>
<td>3 EDUC 3013</td>
<td>Human Development and Learning</td>
<td>2 EDUC 4802 Seminar in Education</td>
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<td>2 MUSI 3102</td>
<td>Orchestration and Arranging</td>
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<td>3 MUSI 3503</td>
<td>Music History I</td>
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<td>2 MUSI 3822</td>
<td>Principles of Conducting</td>
<td>0 MUSI 4030 Senior Recital</td>
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<td>2 MUSI 3252</td>
<td>Private Voice Instruction</td>
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<td>Elementary Music Methods</td>
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**Junior Year Spring Semester – 14 hours**

| Hours          |                                      |                                        |
|----------------|                                      |                                        |
| 3 History/Government requirement |                | 2                                      |
| 1 EDUC 3221   | Practicum I                          | 1                                      |
| 3 MUSI 3513   | Music History II                     |                                        |
| 2 MUSI 3842   | Conducting II: Vocal                 |                                        |
| 2 MUSI 4532   | Form and Analysis                    |                                        |
| 1 MUSR 3421   | Chorale or                           |                                        |
| 3461 Women’s Chorus |                                    |                                        |
| 2 MUSI 3252   | Private Voice Instruction            |                                        |
| 0 MUSI 3000   | Recital Attendance                   |                                        |

**Senior Year Fall Semester – 17 hours**

| Hours          |                                      |                                        |
| 4 Lab science requirement |                | 2                                      |
| 2 EDUC 3612   | Classroom and Behavioral Management  | 1                                      |
| 1 EDUC 4211   | Practicum II                         |                                        |
| 2 SPED 3022   | Survey of Diverse Populations        |                                        |
| 3 MUSI 4843   | Secondary Vocal Methods and Materials |                                        |
| 2 MUSI 3372   | Vocal Pedagogy                       |                                        |
| 1 MUSR 3421   | Chorale or                           |                                        |
| 3461 Women’s Chorus |                                    |                                        |
| 2 MUSI 3252   | Private Voice Instruction            |                                        |
| 0 MUSI 3000   | Recital Attendance                   |                                        |

**Senior Year Spring Semester – 12 hours**

| Hours          |                                      |                                        |
|----------------|                                      |                                        |
| 2            |                                      |                                        |
| 10           |                                      |                                        |
| 0            |                                      |                                        |

132 Total Hours

At least 45 hours must be upper-level courses.

*Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: Lab sciences-select BIOL 1153/1151 or 1523/1521 and select another without the prefix BIOL; fine arts-may not choose MUSI 2763; history/government-POLS 2753 is required and select either HIST 2753 or 2763.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. PHYE activity, two hours. Select two activity courses: PHYE 1011, 1021, 1101, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.

4. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

5. Must be admitted to the College of Education, Teacher Education Program.

6. The department requires students to meet a piano proficiency. Students with little or no piano abilities will be required to pass (with a minimum grade of “C”) up to four hours of class piano (MUSC 1161, 1171, 2161, and 2171).

7. Program requirement - course must be completed with a grade of “B” or better.
Philosophy

PHILOSOPHY MINOR
MINOR CODE:  A019
The minor in philosophy requires 18 hours of coursework. Each course must be completed with a grade of C or better.

Required nine hours:
PHIL 2753 Introduction to Philosophy
PHIL 3103 Reasoning across the Disciplines
PHIL 3203 Ethics across the Disciplines

Select nine hours:
Any PHIL 3000 or 4000 series courses.

Political Science

POLITICAL SCIENCE MINOR
MINOR CODE:  A020
The minor in political science requires 18 hours of coursework.

Required nine hours:
POLS 2753 American National Government
POLS 2853 State and Local Government
POLS 3113 Public Policy

Select nine hours:
Any POLS 3000 or 4000 series courses.

Psychology

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE:  2552
Freshman Year Fall Semester – 16 hours
Hours
3 English composition requirement 1
3 MATH 1403 or higher course
4 World language requirement 5
3 SPCH 1203 Introduction to Speech Communication
3 PSYC 1163 General Psychology 2

Freshman Year Spring Semester – 17 hours
Hours
3 English composition requirement 1
4 World language requirement 5
4 Lab science requirement 1
3 Fine Arts/Humanities/Social Sciences requirement 1
3 Additional degree requirement 4

Sophomore Year Fall Semester – 16 hours
Hours
3 STAT 2503 Probability and Statistics I 2
3 PSYC 2963 Developmental Psychology: A Life Span 2
3 World language requirement 5
4 Lab science requirement 1
3 History/Government requirement 1

Sophomore Year Spring Semester – 15 hours
Hours
3 PSYC 2613 Research Methods in Psychology 2
3 PHIL 2753 Introduction to Philosophy
3 Fine Arts/Humanities/Social Sciences requirement 1
3 Fine Arts/Humanities/Social Sciences requirement 1
3 Additional degree requirement 4

Junior Year Fall Semester – 15 hours
Hours
3 PHIL 3203 Ethics Across the Disciplines
3 PSYC 3613 Experimental Psychology 2
3 PSYC 3503 Behavioral Statistics 2
3 Fine Arts/Humanities/Social Sciences requirement 1
3 Additional degree requirement 4

Junior Year Spring Semester – 15 hours
Hours
3 PSYC 3133 Social Psychology 2
3 PSYC 4133 Physiological Psychology 2
3 PSYC 3183 Cognitive Psychology 2
3 Additional degree requirement 4
3 Additional degree requirement 4

Senior Year Fall Semester – 15 hours
Hours
3 PSYC 4223 Psychology of Personality 2
3 PSYC 4303 Sensation and Perception 2
3 PSYC 4153 Conditioning and Learning 2
3 Additional degree requirement 4
3 Additional degree requirement 4
Senior Year Spring Semester – 15 hours

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<tr>
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124 Total Hours
At least 45 hours must be upper-level

*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with following stipulations: humanities-PHIL 2753 is a degree requirement, select one additional course; lab science-select BIOL 1153/1151 and either CHEM 1303/1301 or PHSC 2713/2711; social sciences-select two courses other than PSYC 1163.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Must earn a grade of “C” or better in ALL psychology courses to meet degree requirements.

3. Psychology requirements, three hours. Consult with faculty advisor. Select from PSYC 3123, 3173, 3653, 3703, 3763, 4613, 4803, 4813, 493V.

4. Additional degree requirements, 27 hours: Consult with faculty advisor. A minor is required; follow the respective minor requirements. Remaining hours may be additional PSYC courses or other electives. Select courses to ensure completion of 45 upper level hours required for graduation.

5. World language requirement, 11 hours. Must complete through Intermediate I of a world language.

PSYCHOLOGY MINOR
MINOR CODE: A006
The minor in psychology requires 18 hours of coursework.

Required nine hours:
PSYC 1163 General Psychology
STAT 2503 Probability and Statistics
PSYC 2613 Research Methods in Psychology

Select nine hours:
Any PSYC 3000 or 4000 series courses.

Sociology

SOCIOLOGY MINOR
MINOR CODE: A021
The minor in sociology requires 18 hours of coursework. Each course taken in the minor must be completed with a grade of “C” or better.

Required nine hours:
SOCI 2753 Introduction to Sociology
SOCI 2853 Social Problems
SOCI 2863 Introduction to Social Research Methods

Select nine hours:
SOCI 3113 Race and Ethnic Relations
SOCI 3193 Social Stratification
SOCI 3263 Sociology of the Family
SOCI 3283 Death and Dying
SOCI 3413 Sociological Theory
SOCI 4103 Sociology of Organizations
SOCI/HIST 4123 African American History to 1865
SOCI/HIST 4133 African American History since 1865
SOCI 4203 Sociology: Special Topics
SOCI 4803 Senior Seminar

Studio Art

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2560
A portfolio is required for admission into the B.A. in Studio Art program. This portfolio will contain examples of work from the required foundations curriculum and will demonstrate proficiency in all classes. Contact the Chair of the Art Department for specifics concerning this requirement.

Freshman Year Fall Semester – 16 hours

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4. Lab science requirement 1
3. Art foundations 2
3. Art foundations 2

Freshman Year Spring Semester – 16 hours

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**Senior Year Spring Semester – 15 hours**

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124 Total Hours

At least 45 hours must be upper level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Follow requirements with following stipulations: fine arts may not use ART 2863 or 2873; social sciences - PSYC 1163 is required and select one other course.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Art Foundations courses are: ART 1203 Color; ART 1213 2-D Design; ART 1303 Figure Drawing; ART 1313 Drawing; and ART 1403 3-D Design. A grade of C or better is required in all Foundations, Studio Art Classes, and any GRDS course selected (see note #3) that count toward the B.A. in Studio Art. A cumulative 2.75 GPA is required in these courses to meet graduation requirements. Students must pass ART 1101 to be admitted into the Studio Art program.

3. Art Requirements 27 hours. Lower-level studio courses: select six hours from ART 2773, 2793, or GRDS 2213. Upper-level Art History: ART 3523 and 4203 are required. Upper-level studio courses: select 15 hours from ART 3303, 3313, 3323, 3753, 3763, 3773, 3783, 3793, 3813, 391V, any other upper-level studio art course, or GRDS 3223.

4. World language requirement 11 hours. Must complete through Intermediate I of a world language.

5. Additional degree requirements: A minor must be completed for this degree. Consult with faculty advisor. Select courses to ensure completion of 45 upper-level hours required for graduation.
STUDIO ART MINOR
MINOR CODE: AO10
The minor in Studio Art requires 21 hours of coursework.

Required 15 hours:
ART 2863 Art History I or
ART 2873 Art History II
Three hours of an upper-level Art History course
Select nine hours of Art Foundation courses:
ART 1203 Color
ART 1213 2-D Design
ART 1303 Figure Drawing
ART 1313 Drawing
ART 1403 3-D Design
ART 2773 Introduction to Painting
ART 2793 Introduction to Printmaking
Select six hours:
ART 3303 Anatomy of the Figure
ART 3313 Advanced Drawing
ART 3763 Relief Printing
ART 3773 Figure Painting
ART 3783 Intaglio
ART 3793 Lithography
Any other upper-level ART studio course
GRDS 3223 Digital Photography

Theatre
BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2562
CONC. CODE: C026 ACTING/DIRECTING
CONC. CODE: C027 DESIGN
Freshman Year Fall Semester – 16 hours
Hours *Notes
3 English composition requirement 1
3 SPCH 1203 Introduction to Speech Communication 1
3 Mathematics requirement 1
3 THEA 1203 Introduction to Theatre 2
1 THEA 1711 Studio Dance I 2
3 Additional degree requirement 5

Freshman Year Spring Semester – 16 hours
Hours *Notes
3 English composition requirement 1
3 Fine Arts/Humanities/
Social Sciences requirement 1
3 THEA 1303 Acting I 2
3 THEA 1503 Stagecraft 2
1 THEA practicum 2 & 3

Sophomore Year Fall Semester – 17 hours
Hours *Notes
4 Lab science requirement 1
4 World language requirement 4
3 THEA 2313 Voice and Movement 2
3 THEA 2513 Fundamentals of Design 2
3 Additional degree requirement 5

Sophomore Year Spring Semester – 16 hours
Hours *Notes
3 Fine Arts/Humanities/
Social Sciences requirement 1
4 Lab science requirement 1
4 World language requirement 4
3 THEA 2603 Directing I 2
1 THEA 1721 Studio Dance II 2
1 THEA practicum 2 & 3

Junior Year Fall Semester – 16 hours
Hours *Notes
3 PHIL 3103 Reasoning Across the Disciplines or
PHIL 3203 Ethics Across the Disciplines
3 THEA requirement 2 & 3
3 THEA requirement 2 & 3
1 THEA practicum 2 & 3
3 Additional degree requirement 5
3 Additional degree requirement 5

Junior Year Spring Semester – 15 hours
Hours *Notes
3 Fine Arts/Humanities/
Social Sciences requirement 1
3 THEA requirement 2 & 3
3 THEA requirement 2 & 3
3 Additional degree requirement 5
3 Additional degree requirement 5

Senior year Fall Semester – 15 hours
Hours *Notes
3 History/Government requirement 1
3 THEA requirement 2 & 3
3 THEA requirement 2 & 3
1 THEA practicum 2 & 3
2 Additional degree requirement 5
3 Additional degree requirement 5

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Senior Year Spring Semester – 15 hours

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126 Total Hours
At least 45 hours must be upper level

*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Theatre requirements 28 hours. Practicum: THEA 1431 and THEA 1451 are required and must be taken twice each. Required: THEA 4213 and 4223 and ENGL 3243 or 4213. Select an area of specialization for 15 hours: Acting/Designing requires THEA 3313, 3323, 4333, 4613, and three hours of an upper-level theatre elective; Design requires THEA 3533, 3543, 4553, 4623, and 3 hours of an upper-level theatre elective.
4. World language requirement 8 hours Must complete through Beginning II of a world language.
5. Additional degree requirements 32 hours Consult with faculty advisor. Select courses to ensure completion of 45 upper-level hours required for graduation; a minimum of 18 hours must be upper level. A minor is required; follow respective minor requirements. Select additional electives as needed.

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**THEATRE MINOR**

**MINOR CODE: A011**

The minor in Theatre requires 20 hours of coursework.

**Required 14 hours:**

- THEA 1203 Introduction to Theatre
- THEA 1303 Acting I
- THEA 1431 Theatre Practicum (Performance)
- THEA 1451 Theatre Practicum (Technical)
- THEA 1503 Stagecraft
- THEA 4213 Theatre History I or 4223 Theatre History II

**Select six hours:**

- THEA upper-level hours selected in agreement with the theatre faculty.
The College of Languages and Communication is dedicated to the ideals of effective communication through the study of language, literature, speech, rhetoric, and writing. By emphasizing critical thinking and problem-solving skills, students obtaining a degree from the College of Languages and Communication will develop a broad understanding of the world in which they live and will demonstrate effective interpersonal, interpretive, and presentational communication skills. Students in the College of Languages and Communication can complete a bachelor of arts degree or a bachelor of science degree with teacher licensure.

The College of Languages and Communication offers the majors, degrees and minors indicated below.

**BACHELOR OF ARTS (BA) DEGREE**
- English
- Media Communication
- Rhetoric and Writing
- Spanish

**BACHELOR OF SCIENCE (BS) DEGREE**
The College of Languages and Communication, in cooperation with the College of Education, offers the following programs.
- English with teacher licensure 7-12
- Spanish with teacher licensure 7-12

**ASSOCIATE OF ARTS (AA) DEGREE**

**ASSOCIATE OF GENERAL STUDIES (AGS) DEGREE**

**CERTIFICATE OF PROFICIENCY**
- Teaching English as a Second Language

**MINORS**
- Creative Writing
- English
- Media Communication
- Rhetoric and Writing
- Spanish
- Speech
Creative Writing

CREATIVE WRITING MINOR
MINOR CODE: A015

The minor in creative writing requires 18 hours of courses.

Required nine hours:
- ENGL 2853 Imaginative Writing
- Select two of the following (each workshop may be repeated once for elective credit):
  - ENGL 3113 Fiction Workshop
  - ENGL 3123 Poetry Workshop
  - ENGL 3133 Scriptwriting Workshop

Select nine hours:
- ENGL 3113 Fiction Workshop
- ENGL 3123 Poetry Workshop
- ENGL 3133 Scriptwriting Workshop
- ENGL 3401 Publications Staff
(by repeated for up to 3 hours)
- ENGL 3143 Special Topics in Creative Writing
(by repeated once for credit provided topics vary)
- RHET 3703 Nonfiction Writing
- RHET 4703 Advanced Nonfiction Writing
- RHET 4713 Topics in Nonfiction Writing

English

ENGLISH PROGRAM MISSION

The purpose of the English and rhetoric courses is to help students learn and apply writing strategies, communication skills, text-based critiques, and critical-thinking skills that enhance their academic, professional, and personal endeavors. The English and rhetoric program develops communication and critical-thinking skills by asking students to analyze, synthesize, and evaluate a variety of texts, as well as collaborate on projects that reinforce these skills. The English and rhetoric faculty members believe that these skills allow students to become stronger, more disciplined writers and thinkers.

BACHELOR OF ARTS (BA) DEGREE
MAJOR CODE: 2545

Freshman Year Fall Semester – 16 hours

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Freshman Year Spring Semester – 16 hours

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### English with Teacher Licensure 7-12

**BACHELOR OF SCIENCE (BS) DEGREE**

**MAJOR CODE: 3576**

#### Freshman Year Fall Semester – 15 hours

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### Senior Year Fall Semester – 15 hours

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124 Total Hours

At least 45 hours must be upper-level.

*Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Follow requirements with these stipulations: humanities-select one course from ENGL 2803 or 2813 or PHIL 2753.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Students must earn a grade of C or better in all courses counted toward the major.

3. Core English courses, nine hours. Select three courses from ENGL 3013, 3023, 3033, or 3043.

4. English Requirements, 18 hours. Period and Genre: select three courses from ENGL 3223, 3233, 3243, 3343, 4123, 4223, 4243, 4773, or 4793; Cultural Studies: select three courses from ENGL 3443, 3453, 4103, 4903, or 4913.

5. Additional Degree Requirements 27 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select courses to ensure completion of 45 upper-level hours required for graduation.

Admission to college of education, teacher education program: Students must be admitted into the College of Education prior to enrollment in particular courses.

**Junior Year Fall Semester – 15 hours**

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3 ENGL 3403 Grammar and Language Awareness</td>
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<td>2 &amp; 4</td>
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<tr>
<td>3 Upper-level elective</td>
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**Junior Year Spring Semester – 16 hours**

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<tr>
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<td>2 &amp; 4</td>
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<tr>
<td>3 ENGL 3203 Young Adult Literature or ENGL 3303 Writing and the Teaching of Writing</td>
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<tr>
<td>3 EDUC 3013 Human Development and Learning</td>
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<tr>
<td>1 EDUC 3221 Practicum I</td>
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**Senior Year Fall Semester – 17 hours**

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<tr>
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<td>3 ENGL 3203 Young Adult Literature or ENGL 3303 Writing and the Teaching of Writing</td>
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<tr>
<td>2 EDUC 4222 Assessment</td>
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<td>2 SPED 3022 Survey of Diverse Populations</td>
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<tr>
<td>2 EDUC 3612 Classroom and Behavioral Management</td>
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<tr>
<td>1 EDUC 4211 Practicum II</td>
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<td>1 PHYE program requirement</td>
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**Senior Year Spring Semester – 12 hours**

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<td>2 EDUC 4802 Seminar in Education</td>
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<tr>
<td>10 EDUC 490A Teaching in the Secondary Schools</td>
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123 Total Hours
At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog.

Follow the requirements with these stipulations: humanities – select one course from ENGL 2803 or 2813 or PHIL 2753; history/government – POLS 2753 is required and select one course HIST 2753 or 2763.

2. These courses are used to determine major courses in residency. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. Core English courses, nine hours. Select three courses from ENGL 3013, 3023, 3033, or 3043.

4. English Requirements 12 hours. Period and Genre: select two courses from ENGL 3223, 3233, 3243, 3343, 4123, 4223, 4243, 4773, or 4793. Cultural Studies: select one course from ENGL 3453, 4903, or 4913. Major Author Studies: select one course from ENGL 4103, 4203, or 4213.

5. Program Requirements two hours. PHYE required activity courses: Select two from 1011, 1101, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.

6. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

7. Must be admitted to the College of Education Teacher Education Program.

8. Program requirement - course must be completed with a grade of “B” or better.

**ENGLISH MINOR**

**MINOR CODE: A003**

The minor in English requires 18 hours of coursework. Students must earn a grade of “C” or higher in all courses counted toward minor.

**Required six hours:**

ENGL 2033 Cultural Studies
RHET 3203 Textual Research Methods

**Select six hours:**

ENGL 3013 Seminar: British Literature I
ENGL 3023 Seminar: British Literature II
ENGL 3033 Seminar: American Literature I
ENGL 3043 Seminar: American Literature II

**Select six hours:**

ENGL courses 3000 or 4000 level.
## Media Communication

**BACHELOR OF ARTS (BA) DEGREE**

**MAJOR CODE: 2567**

### Freshman Year Fall Semester – 16 hours

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### Freshman Year Spring Semester – 16 hours

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### Sophomore Year—Fall Semester – 16 hours

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<tr>
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<td>RHET 3103 Editing for Usage, Style, and Clarity</td>
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<td>COMM 2203 Introduction to Mass Communication</td>
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### Sophomore Year Spring Semester – 16 hours

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### Junior Year Fall Semester – 15 hours

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### Junior Year Spring Semester – 15 hours

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### Senior Year Fall Semester – 15 hours

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### Senior Year Spring Semester – 15 hours

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124 Total Hours

At least 45 hours must be upper-level

**Notes**

1. General Education Core Requirements, see Graduation Requirements section of catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Students must earn a grade of C or better in all courses counted toward the major.
3. If RHET 2863 was taken for composition requirement, select an upper-level RHET course.
4. Media Communication electives, 15 hours from RHET 4123, 4523, COMM 4633, 4643, 3143, or 4223. With permission from department head, COMM 3801, 493V, and 495V may be used.
5. Additional degree requirements, 36 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select to ensure completion of 45 upper-level hours required for graduation.
MEDIA COMMUNICATION MINOR

MINOR CODE: A023

The minor in media communication requires 18 hours of coursework. The minor is not available to Rhetoric and Writing majors.

Required nine hours:
- RHET 2863 Advanced Composition
- COMM 2203 Introduction to Mass Communication
- COMM 2303 Survey of New Media

Select nine hours:
- COMM 3143 Special Topics in Media Communication
- COMM 3801 Publications Staff
- COMM 4223 Broadcasting for New Media
- COMM 4633 Writing for the Web
- COMM 4643 Writing for the Media
- RHET 3103 Editing for Usage, Style, and Clarity
- RHET 4123 Editing as a Profession
- RHET 4523 Arguing Public Issues

Rhetoric and Writing

BACHELOR OF ARTS (BA) DEGREE

MAJOR CODE: 2555

Freshman Year Fall Semester – 16 hours

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Freshman Year Spring Semester – 16 hours

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Sophomore Year Fall Semester – 16 hours

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Sophomore Year Spring Semester – 16 hours

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<td>RHET 3203 Textual Research Methods</td>
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Junior Year Fall Semester – 15 hours

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Junior Year Spring Semester – 15 hours

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Senior Year Fall Semester – 15 hours

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Senior Year Spring Semester – 15 hours

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At least 45 hours must be upper-level

*Notes

124 Total Hours

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(888) 512-5466 • (479) 788-7120
1. General Education Core Requirements, see Graduation Requirements section of catalog.

2. These courses are used to determine major courses in residency, see Graduation Requirements. Students must earn a grade of “C” or better in all courses counted toward the major.

3. If RHET 2863 was taken for composition requirement, select an upper-level RHET course.

4. Rhetoric/Writing Electives, 15 hours from one of two tracks: Writing and Editing for Publication (choose from RHET 3703, 4303, 4123, 4143, 4633, or 4643) and Professional and Technical Writing (choose from RHET 3603, 4603, 4503, 4523, 4633, or 4643). With permission of the department head, RHET 3801, 493V, 495V may be used in either track.

5. Additional degree requirements, 36 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select to ensure completion of 45 upper-level hours required for graduation.


**RHETORIC/WRITING MINOR**

**MINOR CODE: A007**

The minor in rhetoric/writing requires 18 hours of coursework. Each course in the minor must be completed with a grade of “C” or better.

**Required nine hours:**
- RHET 2863 Advanced Composition
- RHET 3103 Editing for Usage, Style and Clarity
- RHET 3503 Writing Arguments

**Select nine hours:**
- RHET 3203 Textual Research Methods
- RHET 3603 Writing for the Workplace
- RHET 3703 Nonfiction Writing
- RHET 3801 Publications Staff (may be repeated for up to three hours)
- RHET 4123 Editing as a Profession
- RHET 4143 Writing for Publication
- RHET 4303 The Art of the Essay
- RHET 4503 Arguing Public Issues
- RHET 4523 Writing for Corporations and Nonprofits
- RHET 4603 Scientific and Technical Writing

**Spanish**

**BACHELOR OF ARTS (BA) DEGREE**

**MAJOR CODE: 2557**

**Freshman Year Fall Semester – 16 hours**

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**Freshman Year Spring Semester – 17 hours**

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**Sophomore Year Fall Semester – 16 hours**

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**Sophomore Year Spring Semester – 15 hours**

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**Sophomore Year Summer Semester – 3 hours**

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### Junior Year Fall Semester – 15 hours

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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td></td>
<td>SPAN 3013</td>
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<td>SPAN 3053</td>
<td>Cultural Readings</td>
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### Junior Year Spring Semester – 15 hours

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### Senior Year Fall Semester – 15 hours

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<tr>
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<td>Advanced Conversation I</td>
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<td>Spanish requirement</td>
<td>2 &amp; 3</td>
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### Senior Year Spring Semester – 12 hours

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<th>Hours</th>
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<tbody>
<tr>
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<td>Spanish requirement</td>
<td>2 &amp; 3</td>
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---

Total Hours 124
At least 45 hours must be upper-level

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1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency.
3. Spanish Requirements, 21 hours. Consult with faculty advisor. Literature and Special Topics: select 12 hours from SPAN 3233, 3623, 4043, 405V, 4143, or 464V. Culture, Civilization and Linguistics: select 9 hours from SPAN 4123, 4133, 3003 or 4603.
4. Additional degree requirements, 36 hours. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed. Select courses to ensure completion of 45 upper-level hours required for graduation.
5. Travel study is intended to prepare students to pass the Oral-Proficiency Interview (OPI). Consult with advisor to arrange an alternative immersion program.

All Spanish majors are required to pass the Oral Proficiency Interview at the Advanced-Low level prior to graduation.

**Option 1**

- The OPI is conducted telephonically by a certified ACTFL rater, then double-rated.

**Option 2**

- The OPI is conducted by a certified tester on the UAFS faculty. The recorded sample is then forwarded to the ACTFL testing office to be double-rated and made official.

With successful completion of either option, an Advanced Level Check Certificate is issued to those candidates who meet the Advanced-Low level of oral proficiency.

---

### Spanish with Teacher Licensure 7-12

**BACHELOR OF SCIENCE (BS) DEGREE**

**MAJOR CODE: 3580**

**Freshman Year Fall Semester – 15 hours**

<table>
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<td>MATH 1403</td>
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<td>SPCH 1203</td>
<td>Introduction to Speech Communication</td>
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<td>SPAN 2803</td>
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**Freshman Year Spring Semester – 16 hours**

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<td>English composition requirement</td>
<td>1 &amp; 5</td>
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<td>Lab science requirement</td>
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<td>3</td>
<td></td>
<td>Fine Arts/ Humanities/ Social Sciences requirement</td>
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<td>SPAN 2813</td>
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**Sophomore Year Fall Semester – 17 hours**

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<td>SPAN 3013</td>
<td>Grammar and Composition I</td>
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<td>EDUC 2753</td>
<td>Introduction to Education/ Field Experience</td>
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### Junior Year Fall Semester – 15 hours

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<tbody>
<tr>
<td>3 SPAN 3003</td>
<td>Phonetics &amp; Pronunciation</td>
<td>2</td>
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<td>3 SPAN 4133</td>
<td>Spanish Civilization</td>
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<td>3 SPAN 3023</td>
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<td>3 EDUC 3013</td>
<td>Human Development and Learning</td>
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<td>2 EDUC 3112</td>
<td>Literacy Development in the Content Area</td>
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<td>1 EDUC 3221</td>
<td>Practicum I</td>
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### Junior Year Spring Semester – 14 hours

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<tr>
<td>3 SPAN 4123</td>
<td>Latin American Civilization</td>
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<td>3 Spanish elective</td>
<td>2 &amp; 3</td>
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<td>2 &amp; 3</td>
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<tr>
<td>2 EDUC 3612</td>
<td>Classroom and Behavior Management</td>
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<td>2 SPED 3022</td>
<td>Survey of Diverse Populations</td>
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<td>1 EDUC 4211</td>
<td>Practicum II</td>
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### Junior Year Summer Term – 6 hours

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<tr>
<td>3 SPAN 3553</td>
<td>Travel to Spain or Latin America</td>
<td>2 &amp; 7</td>
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<tr>
<td>3 SPAN 3053</td>
<td>Cultural Readings</td>
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### Senior Year Fall Semester – 15 hours

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<tbody>
<tr>
<td>3 FORL 4313</td>
<td>Second Language Teaching Methods</td>
<td>2</td>
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<tr>
<td>3 SPAN 4603</td>
<td>Spanish Linguistics</td>
<td>2</td>
</tr>
<tr>
<td>2 EDUC 4222</td>
<td>Assessment</td>
<td>6</td>
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<tr>
<td>3 Spanish Elective</td>
<td>2 &amp; 3</td>
<td></td>
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<tr>
<td>3 Spanish Elective</td>
<td>2 &amp; 3</td>
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<td>1 Physical education activity</td>
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### Senior Year Spring Semester – 12 hours

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<tbody>
<tr>
<td>2 EDUC 4802</td>
<td>Seminar in Education</td>
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<tr>
<td>10 EDUC 490A</td>
<td>Teaching in the Secondary School</td>
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</tr>
</tbody>
</table>

124 Total Hours

At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: science-BIOL 1153/1151 is required and select one other course without the BIOL prefix; history/government-POLS 2753 is required and select HIST 2753 or HIST 2763.

2. These courses are used to determine major courses in residency. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. Spanish electives, 12 hours. Select four courses from SPAN 4043, 4143, 464V, or HIST 3503.

4. Physical education activity, two hours. Select two PHYE courses from the following: 1011, 1101, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.

5. Requirements for admission to the Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

6. Must be admitted to the College of Education teacher education program.

7. Travel study is intended to prepare students to pass the Oral-Proficiency Interview (OPI). Consult with advisor to arrange an alternative immersion program.
8. Program requirement - course must be completed with a grade of “B” or better.

All Spanish with teacher licensure majors are required to pass the Oral Proficiency Interview (OPI) at the Advanced-Low level prior to their internship semester.

**Option 1**

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**Option 2**

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With successful completion of either option, an Advanced Level Check Certificate is issued to those candidates who meet the Advanced-Low level of oral proficiency.

**SPANISH MINOR**

**MINOR CODE: A008**

The minor in Spanish requires 18 hours of coursework.

**Required nine hours:**
- SPAN 2813 Intermediate Spanish II
- SPAN 3013 Grammar and Composition I
- SPAN 3063 Grammar and Composition II

**Select nine hours:**
- SPAN 3023 Advanced Conversation I
- SPAN 3553 Travel to Spain or Latin America
- SPAN 4123 Latin American Civilization
- SPAN 4133 Spanish Civilization
- SPAN 3053 Cultural Readings
- SPAN 3233 Spanish Literature I
- SPAN 4143 Spanish Literature II
- SPAN 3623 Latin American Literature I
- SPAN 4043 Latin American Literature II

**Speech**

**SPEECH MINOR**

**MINOR CODE: A016**

The minor in speech requires 18 hours of coursework.

**Required nine hours:**
- SPCH 2203 Foundations of Communication
- SPCH 2213 Interpersonal/Small Group Communication
- SPCH 2223 Advanced Public Speaking

**Select nine hours:**
- SPCH 3203 Critical Listening
- SPCH 3213 Nonverbal Communication
- SPCH 4203 Culture and Communication
- SPCH 3223 Argumentation and Debate
- SPCH 4223 Rhetorical Criticism - Oratory

**Teaching English as a Second Language (TESL)**

**CERTIFICATE OF PROFICIENCY**

**MAJOR CODE: 2543**

The certificate of proficiency in TESL requires 15 hours of coursework. A minimum 2.00 grade point average is required for all courses used to meet the requirements of the certificate and no student will be allowed to receive the certificate with a grade of “D” in more than one course. At least 50% of the course requirements for the certificate must be completed in residency.

**Course Requirements**

**Required 12 hours of core courses**
- 3 ENGL 4313/FORL 4313 Second Language Teaching Methods
- 3 ENGL 4323/FORL 4323 Second Language Acquisition
- 3 ENGL 4333/FORL 4333 Second Language Assessment
- 3 ENGL 4353/FORL 4343 Teaching People of Other Cultures

**3 Select three hours from the following courses:**
- ENGL 130V/FORL 130V Language and Culture: United States
- ENGL 3663 English Grammar
FORL  2313  Portuguese for Spanish Speakers
FREN  2313  Intermediate French II
GERM  2313  Intermediate German II
SPAN  2813  Intermediate Spanish II
Any upper-level World Language course

15 Total Hours

Associate of Arts (AA) Degree

The associate of arts (AA) degree provides the student with the opportunity to obtain the first two years of college credits towards meeting most of the general education requirements and some of the prerequisites for the baccalaureate degree.

DEGREE REQUIREMENTS
MAJOR CODE: 0050

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<td>Speech requirement</td>
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<tr>
<td>3</td>
<td>Mathematics requirement</td>
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<tr>
<td>8</td>
<td>Lab science requirement</td>
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<td>Humanities requirement</td>
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<td>History/Government requirement</td>
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<td>0-3</td>
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60 Total Hours

*Notes
1. Follow the General Education Core Requirements, see Graduation Requirements section of catalog.
2. Institutional requirement/advisor elective, 0-3 hours. May only take ITA 1003 for this elective.
3. Directed electives, 22-25. (Courses taken to satisfy other State General Education Core Requirements cannot fulfill the directed electives requirement.) Select 22-25 hours of 1000-2000 level electives from the following areas: ANTH, ART, BIOL (except BIOL 1433/1431 and BIOL 1452), CHEM, CJ 1013, ECON, ENGL (except ENGL 0163 and ENGL 1201), FORL, FREN, GEOG, GEOI, GERM, HIST, HUMN, MATH (except MATH 0233, MATH 0234, MATH 1133, and MATH 1203), PHIL, PHSC, PHYS, POLS, PYSC, RHET, SOCI, SPAN, SPCH, STAT, THEA.

Associate of General Studies (AGS) Degree

The associate of general studies (AGS) degree allows maximum exploration of courses by the student. It is not intended for students who plan to pursue a baccalaureate degree. Although all courses for the AGS degree are college-level, the combination of courses selected may not normally constitute a major area suitable for a baccalaureate degree and may not transfer to other institutions.

DEGREE REQUIREMENTS
MAJOR CODE: 0005

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60 Total Hours

*Notes
1. General Education Core Requirements, see Graduation Requirements section of catalog.
2. General Education Core Electives. Select courses from ENGL 1213, fine arts, humanities, lab sciences, and social sciences.
3. Electives. Must select college-level courses of 1000 or 2000 level.
The College of Science, Technology, Engineering & Mathematics (STEM) provides students with the knowledge and skills to discover relevant questions and their solutions for problems beyond the classroom. Using experiential and empirical pedagogical approaches, STEM provides an environment that encourages inquisitiveness, problem solving, and innovation. Furthermore, the College delivers advanced specialized training to future leaders in mathematics, the sciences, engineering, and technology, developing thinking skills to prepare students for professional fields and graduate study. We use the latest technology and innovative teaching strategies to provide learning experiences that enable a diverse population of students to demonstrate the skills, knowledge, and attitudes required for lifelong learning.

STEM offers the following degrees and minors:

**BACHELOR OF SCIENCE (BS) DEGREE**
- Biology
- Chemistry and Chemistry with concentration in Biochemistry
- Information Technology
  - Database Management
  - Networking
  - Programming
  - Web Developer
- Mathematics

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**
- Information Technology

**MINORS**
- Biology
- Chemistry
- Geology
- IT Database Technology
- IT Web Development
- Mathematics
- Physics
Biology

BACHELOR OF SCIENCE (BS) DEGREE
MAJOR CODE: 3006

Freshman Year Fall Semester – 16 hours

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<th>Description</th>
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<td>BIOL</td>
<td>2003</td>
<td>Introduction to Cell Biology</td>
<td>6</td>
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<td>CHEM</td>
<td>1403/1401</td>
<td>College Chemistry I/Lab</td>
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<td>3</td>
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<td>STAT</td>
<td>2503</td>
<td>Probability and Statistics</td>
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<td>Fine Arts/Humanities/ Social Sciences requirement</td>
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Freshman Year Spring Semester – 17 hours

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<td>College Chemistry II/Lab</td>
<td>2 &amp; 6</td>
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<td>BIOL</td>
<td>2303/2301</td>
<td>General Botany/Lab</td>
<td>2 &amp; 6</td>
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<td>SPCH</td>
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Sophomore Year Fall Semester – 15 hours

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<td>2703/2701</td>
<td>General Zoology/Lab</td>
<td>2 &amp; 6</td>
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<td>CHEM</td>
<td>2703/2701</td>
<td>Organic Chemistry I/Lab</td>
<td>2 &amp; 6</td>
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<td>Physics Sequence</td>
<td>2, 3 &amp; 6</td>
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Sophomore Year Spring Semester – 15 hours

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Junior Year Fall Semester – 15 hours

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Junior Year Spring Semester – 15 hours

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Senior Year Fall Semester – 16 hours

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Senior Year Spring Semester – 15 hours

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124 Total Hours
At least 45 hours must be upper-level

*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Physics Sequence eight hours. Select one sequence: PHYS 2803/2811 and PHYS 2823/2831 or PHYS 2903/2911 and PHYS 2923/2931.
4. Natural Science electives 20 hours. Consult with advisor. At least 12 hours must be at the upper level. Various combinations of BIOL, CHEM, PHSC, GEOL, and PHYS courses may be used.
5. Additional Degree Requirements 12 hours. Consult with advisor. Select courses to ensure completion of 45 upper-level hours required for graduation. At least three hours must be an upper-level general education course.
6. A grade of “C” or better is required in all natural science and math courses taken towards degree completion.
**Biology with Life Science/Earth Science Teacher Licensure 7-12**  
**BACHELOR OF SCIENCE (BS) DEGREE**  
**MAJOR CODE: 3565**

### Freshman Year Fall Semester – 15 hours

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<td>CHEM 1403/1401 College Chemistry/Lab I</td>
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<td>PHSC 2653/2651 Earth Science/Lab or GEOL 1253/1251 Physical Geology/Lab</td>
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### Freshman Year Spring Semester – 18 hours

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<td>4</td>
<td>BIOL 2303/2301 General Botany/Lab</td>
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<td>CHEM 1413/1411 College Chemistry II/Lab</td>
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<td>STAT 2503 Probability and Statistics</td>
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### Summer Term(s) – 12 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

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<tr>
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<td>PHSC 2503 Fundamentals of Astronomy</td>
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### Sophomore Year Fall Semester – 15 hours

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<tr>
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<td>BIOL 2503/2501 General Microbiology/Lab</td>
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<td>CHEM 2703/2701 Organic Chemistry I/Lab</td>
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<td>SPAN 1304 Beginning Spanish I</td>
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<td>EDUC 2753 Introduction to Education/Field Experience</td>
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### Sophomore Year Spring Semester – 16 hours

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<tbody>
<tr>
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<td>BIOL 2703/2701 General Zoology/Lab</td>
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<td>4</td>
<td>PHSC Earth Science upper-level course</td>
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<td>SPCH 1203 Introduction to Speech Communication</td>
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Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

### Junior Year Fall Semester – 15 hours

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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4</td>
<td>BIOL 3803/3801 Genetics/Lab</td>
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<td>PHYS 2803/2811 College Physics I/Lab</td>
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<tr>
<td>3</td>
<td>EDUC 3013 Human Development and Learning</td>
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<td>EDUC 3112 Literacy Development in the Content Area</td>
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<td>EDUC 3221 Practicum I</td>
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### Junior Year Spring Semester – 15 hours

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<tr>
<td>4</td>
<td>BIOL 3403/3401 Ecology/Lab</td>
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<td>BIOL 4403 Evolutionary Biology</td>
<td>2 &amp; 6</td>
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<td>PHYS 2823/2831 College Physics II/Lab</td>
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<td>HIST 3053 History of Modern Science</td>
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### Senior Year Fall Semester – 17 hours

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<tr>
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<td>BIOL 4803/4801 Cell and Molecular Biology/Lab</td>
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<td>BIOL 4103 Teaching Science Methods</td>
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<td>2</td>
<td>EDUC 3612 Classroom and Behavior Management</td>
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<td>1</td>
<td>EDUC 4211 Practicum II</td>
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<td>2</td>
<td>EDUC 4222 Assessment</td>
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<td>SPED 3022 Survey of Diverse Populations</td>
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Senior Year Spring Semester – 12 hours

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<tr>
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<td>EDUC 4802</td>
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<td>10</td>
<td>EDUC 490A</td>
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_________

135 Total Hours

At least 45 hours must be upper-level

*Notes

1. General Education Core requirements, see Graduation Requirements section of catalog. Follow requirements with these stipulations: history/government-POLS 2753 is required; social sciences – select one from HIST 2753 or 2763 and one other course.

2. These courses are used to determine major courses in residency. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. Physical Education Activity - 2 hours. Select two PHYE activity courses from 1011, 1101, 1021, 1261, 1321, 1551, 1561, 1571, 1621, 1841, 2571, or 2841.

4. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

5. Must be admitted to the College of Education Teacher Education Program. EDUC 3013, 3112, 3222 and EDUC 3612, 4211, 4222 must be taken concurrently as indicated.

6. A grade of “C” or better is required in all natural science and math courses taken towards degree completion.

7. Program requirement - course must be completed with a grade of “B” or better.

BIOLOGY MINOR

MINOR CODE: A001

The minor in biology requires 23-24 hours of coursework.

Required 12 hours:

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<tr>
<td>BIOL 1153/1151</td>
<td>Biological Science/Lab</td>
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<tr>
<td>BIOL 2503/2501</td>
<td>General Microbiology/Lab</td>
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<td>BIOL 2703/2701</td>
<td>General Zoology/Lab</td>
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Select 11-12 hours:

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<td>Conservation and Environmental Science</td>
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<td>BIOL 3403/3401</td>
<td>Ecology/Lab</td>
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<td>BIOL 3704</td>
<td>Invertebrate Zoology</td>
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<td>BIOL 3803/3801</td>
<td>Genetics/Lab</td>
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<td>BIOL 420V</td>
<td>Special Topics in Biology</td>
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<td>BIOL 4604</td>
<td>General Physiology</td>
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<td>BIOL 4904</td>
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Chemistry

BACHELOR OF SCIENCE (BS) DEGREE

MAJOR CODE: 3011 CONC. CODE: C031

Freshman Year Fall Semester – 14 hours

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Freshman Year Spring Semester – 17 hours

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<td>Introduction to Cell Biology</td>
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Sophomore Year Fall Semester – 14 hours

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Sophomore Year Spring Semester – 17 hours

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<td>Applied Mathematical Statistics I</td>
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### Junior Year Fall Semester – 15 hours

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<td>Analytical Chemistry</td>
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<td>CHEM 4504</td>
<td>Physical Chemistry I or Inorganic Chemistry</td>
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### Junior Year Spring Semester – 15 hours

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<td>Chemical Literature and Seminar</td>
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<td>CHEM 4514</td>
<td>Physical Chemistry II or Instrumental Analysis</td>
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### Senior Year Fall Semester – 14 hours

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<td>4</td>
<td>CHEM 4504</td>
<td>Physical Chemistry I or Inorganic Chemistry</td>
<td>2 &amp; 3</td>
</tr>
<tr>
<td>3</td>
<td>Additional degree requirement</td>
<td>5</td>
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### Senior Year Spring Semester – 14 hours

<table>
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<th>Course Code</th>
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<tbody>
<tr>
<td>4</td>
<td>CHEM 2703</td>
<td>Organic Chemistry I or University Physics I/Lab</td>
<td>2 &amp; 4</td>
</tr>
<tr>
<td>3</td>
<td>World language requirement</td>
<td>6</td>
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<td>Additional degree requirement</td>
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### Sophomore Year Fall Semester – 15 hours

<table>
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<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>CHEM 2713</td>
<td>Organic Chemistry II or University Physics I/Lab</td>
<td>2 &amp; 4</td>
</tr>
<tr>
<td>3</td>
<td>STAT 3503</td>
<td>Applied Mathematical Statistics I</td>
<td>2</td>
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### Sophomore Year Spring Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>4</td>
<td>CHEM 3403</td>
<td>Biochemistry I or University Physics I/Lab</td>
<td>2 &amp; 5</td>
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### Junior Year Fall Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>BIOL 3801</td>
<td>Genetics/Lab</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>CHEM 4203</td>
<td>Biophysical Chemistry or University Physics I/Lab</td>
<td>2 &amp; 5</td>
</tr>
<tr>
<td>4</td>
<td>Additional degree requirement</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

---

At least 45 hours must be upper-level.

*Notes:
1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Courses offered in alternating years. Consult with faculty advisor.
4. World language - four hours. Select any world language
5. Additional Degree Requirements, 22 hours. Consult with faculty advisor. Ten hours of electives must be upper-level to ensure completion of 45 upper-level hours required for graduation.

---

### Chemistry with Concentration in Biochemistry

**BACHELOR OF SCIENCE (BS) DEGREE**  
**MAJOR CODE: 3011  CONC. CODE: CO30**

### Freshman Year Fall Semester – 14 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement</td>
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<td>4</td>
<td>MATH 2804</td>
<td>Calculus I</td>
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<tr>
<td>4</td>
<td>CHEM 1403/1401</td>
<td>College Chemistry I/Lab</td>
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### Freshman Year Spring Semester – 17 hours

<table>
<thead>
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<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement</td>
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<td></td>
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<tr>
<td>3</td>
<td>BIOL 2003</td>
<td>Introduction to Cell Biology</td>
<td>2</td>
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<tr>
<td>4</td>
<td>CHEM 1413/1411</td>
<td>College Chemistry II/Lab</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>MATH 2854</td>
<td>Calculus II</td>
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<td>3</td>
<td>Fine Arts/Humanities/ Social Sciences requirement</td>
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### Sophomore Year Fall Semester – 15 hours

<table>
<thead>
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<td>4</td>
<td>CHEM 2703</td>
<td>Organic Chemistry I or University Physics I/Lab</td>
<td>2 &amp; 4</td>
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<tr>
<td>4</td>
<td>PHYS 2803/2811</td>
<td>College Physics I/Lab or University Physics I/Lab</td>
<td>2 &amp; 4</td>
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<tr>
<td>4</td>
<td>World language requirement</td>
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<td></td>
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<tr>
<td>3</td>
<td>Fine Arts/Humanities/ Social Sciences requirement</td>
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### Sophomore Year Spring Semester – 15 hours

<table>
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<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
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<td>CHEM 2713</td>
<td>Organic Chemistry II or University Physics I/Lab</td>
<td>2 &amp; 4</td>
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<td>3</td>
<td>STAT 3503</td>
<td>Applied Mathematical Statistics I</td>
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<td>Additional degree requirement</td>
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### Junior Year Fall Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>BIOL 3801</td>
<td>Genetics/Lab</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>CHEM 3403</td>
<td>Biochemistry I or University Physics I/Lab</td>
<td>2 &amp; 5</td>
</tr>
<tr>
<td>4</td>
<td>CHEM 4203</td>
<td>Biophysical Chemistry or University Physics I/Lab</td>
<td>2 &amp; 5</td>
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</table>
## Chemistry with Physical/Earth Science Teacher Licensure 7-12

### BACHELOR OF SCIENCE (BS) DEGREE

#### MAJOR CODE: 3572

<table>
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<tr>
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<th>Hours</th>
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<tr>
<td><strong>Freshman Year Fall Semester – 14 hours</strong></td>
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<tr>
<td>3 English composition requirement</td>
<td>1 &amp; 4</td>
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<tr>
<td>4 CHEM 1403/1401 College Chemistry I/Lab</td>
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<tr>
<td>4 MATH 2804 Calculus I</td>
<td>4</td>
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<tr>
<td>3 SPCH 1203 Introduction to Speech Communication</td>
<td>4</td>
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<tr>
<td><strong>Freshman Year Spring Semester –16 hours</strong></td>
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<tr>
<td>3 English composition requirement</td>
<td>1 &amp; 4</td>
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<tr>
<td>4 CHEM 1413/1411 College Chemistry II/Lab</td>
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<td></td>
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<tr>
<td>4 MATH 2854 Calculus II</td>
<td>2</td>
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<tr>
<td>4 BIOL 1153/1151 Biological Science/Lab</td>
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<tr>
<td>1 PHYE activity course</td>
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#### Summer Term(s) – 12 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>3 History/Government requirement</td>
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<tr>
<td>3 Fine Arts/Humanities/ Social Sciences requirement</td>
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</tr>
<tr>
<td>3 Fine Arts/Humanities/ Social Sciences requirement</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>3 PHSC 2503 Fundamentals of Astronomy</td>
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#### Sophomore Year Fall Semester – 15 hours

<table>
<thead>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>4 CHEM 2703/2701 Organic Chemistry I/Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4 PHYS 2903/2911 University Physics I/Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>1 CHEM 4401 Instructional Methods I</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3 EDUC 2753 Introduction to Education/ Field Experience</td>
<td>4 &amp; 6</td>
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<tr>
<td>3 History/Government requirement</td>
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</table>

#### Sophomore Year Spring Semester – 15 hours

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>4 CHEM 2713/2711 Organic Chemistry II/Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4 PHYS 2923/2931 University Physics II/Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>1 CHEM 4421 Instructional Methods II</td>
<td>2</td>
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<tr>
<td>2 EDUC 3002 Introduction to Educational Technology</td>
<td>4 &amp; 6</td>
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<tr>
<td>4 SPAN 1304 Beginning Spanish I</td>
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### Junior Year Spring Semester – 16 hours

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<tr>
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<th>Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>4 CHEM 3423/3421 Biochemistry II/Lab</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3 HIST 3053 History of Modern Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 SPCH 1203 Introduction to Speech Communication</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Fine Arts/Humanities/ Social Sciences requirement</td>
<td>1</td>
<td></td>
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<tr>
<td>3 Additional degree requirement</td>
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### Senior Year Fall Semester – 14 hours

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<thead>
<tr>
<th></th>
<th>Hours</th>
<th>Notes</th>
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<tbody>
<tr>
<td>4 BIOL 4803/4801 Cell and Molecular Biology/Lab</td>
<td>2</td>
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<tr>
<td>4 CHEM 3604 Analytical Chemistry</td>
<td>2</td>
<td></td>
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<tr>
<td>3 CHEM 4203 Biophysical Chemistry or additional degree requirement</td>
<td>2, 3 &amp; 5</td>
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<td>3 History/Government Requirement</td>
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### Senior Year Spring Semester – 14 hours

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<th>Hours</th>
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<tbody>
<tr>
<td>4 BIOL 4604 General Physiology</td>
<td>2</td>
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<tr>
<td>2 CHEM 3202 Chemical Literature and Seminar</td>
<td>2</td>
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<tr>
<td>1 CHEM 3991 Foundations of Chemistry Research</td>
<td>2</td>
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<tr>
<td>3 CHEM 4903 Special Topics: Chemistry</td>
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<td>4 Additional degree requirement</td>
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</table>

120 Total Hours

At least 45 hours must be upper-level

*Notes*

1. General Education Core Requirements, see Graduation Requirements section of the catalog.

2. These courses are used to determine major courses in residency, see Graduation Requirements.

3. Additional Degree Requirements, 18 hours. Consult with faculty advisor. Six hours of electives must be upper-level to ensure completion of 45 upper-level hours required for graduation.

4. Consult with faculty advisor. Sequence of PHYS 2903/2911 and 2929/2931 is encouraged but some professional programs may accept sequence of PHYS 2803/2811 and 2823/2831.

5. CHEM 4504 is offered every other year. Consult with faculty advisor.

6. World language - four hours. Select any world language.
Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

**Junior Year Fall Semester – 16 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>4 CHEM 3604 Analytical Chemistry</th>
<th>2</th>
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<tbody>
<tr>
<td>Hours</td>
<td>4 CHEM 4504 Physical Chemistry I</td>
<td>2</td>
</tr>
<tr>
<td>Hours</td>
<td>1 CHEM 4411 Laboratory Methods I</td>
<td>2</td>
</tr>
<tr>
<td>Hours</td>
<td>4 GEOL 1253/1251 Physical Geology/Lab</td>
<td>2</td>
</tr>
<tr>
<td>Hours</td>
<td>3 HIST 3053 History of Modern Science</td>
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**Junior Year Spring Semester – 15 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>2 EDUC 3112 Literacy Development in the Content Area</th>
<th>5</th>
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<tbody>
<tr>
<td>Hours</td>
<td>1 EDUC 3221 Practicum I</td>
<td>5 &amp; 6</td>
</tr>
<tr>
<td>Hours</td>
<td>4 CHEM 4514 Physical Chemistry II</td>
<td>2</td>
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<tr>
<td>Hours</td>
<td>1 CHEM 4431 Laboratory Methods II</td>
<td>2</td>
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<tr>
<td>Hours</td>
<td>4 GEOL 3263/3261 Historical Geology/Lab</td>
<td>2</td>
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<tr>
<td>Hours</td>
<td>3 EDUC 3013 Human Development and Learning</td>
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**Senior Year Fall Semester – 15 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>2 EDUC 3612 Classroom and Behavioral Management</th>
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<tbody>
<tr>
<td>Hours</td>
<td>1 EDUC 4211 Practicum II</td>
<td>5 &amp; 6</td>
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<tr>
<td>Hours</td>
<td>2 EDUC 4222 Assessment</td>
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</tr>
<tr>
<td>Hours</td>
<td>2 SPED 3022 Survey of Diverse Populations</td>
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<tr>
<td>Hours</td>
<td>4 CHEM 3403/3401 Biochemistry I/Lab</td>
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<tr>
<td>Hours</td>
<td>1 PHYE activity course</td>
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<tr>
<td>Hours</td>
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**Senior Year Spring Semester – 12 hours**

<table>
<thead>
<tr>
<th>Hours</th>
<th>2 EDUC 4802 Seminar in Education</th>
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<tbody>
<tr>
<td>Hours</td>
<td>10 EDUC 490A Teaching in the Secondary Schools</td>
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130 Total Hours
At least 45 hours must be upper-level

*Notes
1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: history/government-POLS 2753 is required and select one from HIST 2753 or 2763; social sciences-select one course from list.
2. These courses are used to determine major courses in residency. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.
3. PHYE activity courses; two hours. Select two PHYE activity courses from 1011, 1101, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.
4. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.
5. Must be admitted to the College of Education Teacher Education Program. EDUC 3013, 3112, 3221 and EDUC 3612, 4211, 4222 must be taken concurrently as indicated.
6. Program requirement - course must be completed with a grade of “B” or better.

**CHEMISTRY MINOR**
**MINOR CODE: A002**

The minor in chemistry requires 24 hours of coursework.

**Required 12 hours:**

<table>
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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>CHEM 1403/1401</td>
<td>College Chemistry I/Lab</td>
</tr>
<tr>
<td>CHEM 1413/1411</td>
<td>College Chemistry II/Lab</td>
</tr>
<tr>
<td>CHEM 2703/2701</td>
<td>Organic Chemistry I/Lab</td>
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</table>

**Select 12 hours (students must choose nine hours of theory and no more than three hours of lab):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CHEM 3000 or 4000 series courses.</td>
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</table>

**Bachelor of Science in Engineering Degree**

Degrees offered in coordination with the University of Arkansas, Fayetteville

- Electrical Engineering (BSEE)
- Mechanical Engineering (BSME)

The College of Science, Technology, Engineering & Mathematics (STEM) offers undergraduate engineering programs in collaboration with the University of Arkansas, Fayetteville campus.

These programs lead to the Bachelor of Science in Mechanical Engineering and the Bachelor of Science
in Electrical Engineering. UAFS faculty deliver the freshman and sophomore courses charging UAFS tuition and fees. The junior- and senior-level courses are delivered by University of Arkansas, Fayetteville faculty on the UAFS campus, charging the University of Arkansas, Fayetteville tuition and fees (some classes may be delivered by compressed video). Admission to University of Arkansas, Fayetteville is required prior to enrolling in the junior- and senior-level classes. The bachelor's degree is granted by University of Arkansas, Fayetteville.

Engineering graduates must have a background of sound mathematics, scientific, and economic principles and must be acquainted with industrial principles and practices in their chosen fields before they can assume responsibility in the profession. Many engineering graduates become managers and leaders in the public and private sectors because of the problem-solving skills that were developed as part of an engineering education.

The freshman curriculum stresses a basic foundation in mathematics, physics, and chemistry, which will be required in later years. The sophomore, junior, and senior years emphasize industrial applications of classroom and laboratory work. By the selection of electives, a student can concentrate in depth in a particular subject, have the flexibility to study several subjects, and minor in an area of interest. Provision is made for electives in the humanities and social sciences as a means of providing a well-rounded education.

Engineering students follow essentially the same schedule of courses during the freshman year regardless of the intended field of specialization. Certain courses normally taken in the first year comprise the pre-professional curriculum.

Electrical Engineering

BACHELOR OF SCIENCE IN
ELECTRICAL ENGINEERING DEGREE (BSEE)
MAJOR CODE: 3032

Freshman Year Fall Semester – 18 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>1 ENGN 1111</td>
<td>Introduction to Engineering I</td>
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<tr>
<td>2 ENGN 1022</td>
<td>Engineering Analysis</td>
</tr>
<tr>
<td>3 ENGL 1203</td>
<td>Freshman English I</td>
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<tr>
<td>4 MATH 2804</td>
<td>Calculus I</td>
</tr>
<tr>
<td>4 CHEM 1403/1401</td>
<td>College Chemistry I/Lab</td>
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<tr>
<td>4 ITC 1374</td>
<td>Programming for Engineers</td>
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Freshman Year Spring Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>1 ENGN 1121</td>
<td>Introduction to Engineering II</td>
</tr>
<tr>
<td>3 ENGL 1213</td>
<td>Freshman English II</td>
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<tr>
<td>4 ITC 2334</td>
<td>Advanced Programming</td>
</tr>
<tr>
<td>4 MATH 2854</td>
<td>Calculus II</td>
</tr>
<tr>
<td>4 PHYS 2903/2911</td>
<td>University Physics I/Lab</td>
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Sophomore Year Fall Semester – 18 Hours

<table>
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<th>Hours</th>
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<tbody>
<tr>
<td>4 MATH 2904</td>
<td>Calculus III</td>
</tr>
<tr>
<td>4 ELEG 2103/2101</td>
<td>Electric Circuits I/Lab</td>
</tr>
<tr>
<td>3 ELEG 2903</td>
<td>Digital Systems I</td>
</tr>
<tr>
<td>3 History/Government requirement</td>
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Sophomore Year Spring Semester – 18 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 MATH 2914</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>4 ELEG 2113/2111</td>
<td>Electric Circuits II/Lab</td>
</tr>
<tr>
<td>3 ELEG 2913</td>
<td>Digital Systems II</td>
</tr>
<tr>
<td>4 CHEM 1413/1411</td>
<td>College Chemistry II/Lab or BIOL 1153/1151 Biological Science/Lab</td>
</tr>
<tr>
<td>3 Fine Arts/Humanities/ Social Sciences requirement</td>
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</table>

Admission to UA Fayetteville (both the institution and the College of Engineering) is required prior to enrolling in the junior-and senior-level classes.

Junior Year Fall Semester – 19 Hours

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 ELEG 3124</td>
<td>Systems and Signals Analysis with Lab</td>
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<tr>
<td>4 ELEG 3214</td>
<td>Electronics with Lab</td>
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<tr>
<td>4 ELEG 3924</td>
<td>Microprocessor System Design/Lab</td>
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<tr>
<td>4 ELEG 3704</td>
<td>Applied Electromagnetics with Lab</td>
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Junior Year Spring Semester – 14 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 ELEG 3224</td>
<td>Electronics II with Lab</td>
</tr>
<tr>
<td>4 ELEG 3304</td>
<td>Energy Systems with Lab</td>
</tr>
<tr>
<td>3 ELEG 3143</td>
<td>Probability &amp; Stochastic Processes</td>
</tr>
<tr>
<td>3 Math/Science/Technical elective</td>
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Senior Year Fall Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>1 ELEG 4061 Electrical Engineering Design I</td>
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<tr>
<td>3 Electrical Engineering Technical elective 3</td>
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<tr>
<td>3 Electrical Engineering Technical elective 3</td>
<td></td>
</tr>
<tr>
<td>3 Engineering Science elective 3</td>
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<tr>
<td>3 Fine Arts/Humanities/ Social Sciences requirement 2</td>
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<td>3 Fine Arts/Humanities/ Social Sciences requirement 2</td>
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Senior Year Spring Semester – 15 Hours

<table>
<thead>
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<tbody>
<tr>
<td>3 ELEG 4073 Electrical Engineering Design II</td>
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</tr>
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<td>3 Electrical Engineering technical upper-level elective 3</td>
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<tr>
<td>6 Technical upper-level elective 3</td>
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<td>3 Fine Arts/Humanities/ Social Sciences requirement 2</td>
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</tbody>
</table>

134 Total Hours
At least 45 hours must be upper-level.

*Notes
1. General Education Core Requirements, see Graduation Requirements in this catalog. A speech course is NOT required.
2. Fine Arts, Humanities, Social Sciences, 12 hours. Students must consult with UA Fayetteville faculty advisor.

Freshman Year Spring Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>1 ENGN 1121 Introduction to Engineering II</td>
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</tr>
<tr>
<td>3 ENGL 1213 Freshman English II</td>
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</tr>
<tr>
<td>4 MATH 2854 Calculus II</td>
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</tr>
<tr>
<td>4 PHYS 2903/2911 University Physics I/Lab</td>
<td></td>
</tr>
<tr>
<td>4 CHEM 1413/1411 College Chemistry II/Lab or BIOL 1153/1151 Biological Science/Lab</td>
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Sophomore Year Fall Semester – 17 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 MATH 2904 Calculus III</td>
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<tr>
<td>4 PHYS 2923/2931 University Physics II/Lab</td>
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<tr>
<td>3 ENGN 2753 Engineering Statics</td>
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</tr>
<tr>
<td>3 MEEG 2303 Introduction to Materials</td>
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<tr>
<td>3 History/Government requirement 1</td>
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Sophomore Year Spring Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 MATH 2914 Differential Equations</td>
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<tr>
<td>3 ENGN 2763 Engineering Dynamics</td>
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<tr>
<td>3 ENGN 2803 Engineering Thermodynamics</td>
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<tr>
<td>3 MEEG 2703 Numerical Methods I</td>
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</tr>
<tr>
<td>3 MEEG 2103 Introduction to Machine Analysis</td>
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Admission to UA Fayetteville (both the institution and the College of Engineering) is required prior to enrolling in the junior and senior level classes.

Junior Year Fall Semester – 17 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3 MEEG 3013 Mechanics of Materials</td>
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<tr>
<td>3 MEEG 3503 Mechanics of Fluids</td>
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<tr>
<td>2 MEEG 3202 Mechanical Engineering Lab I</td>
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<tr>
<td>3 ELEG 3903 Electric Circuits and Machines</td>
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<tr>
<td>3 MEEG 3113 Machine Dynamics and Control</td>
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<tr>
<td>3 ECON 2803 Principles of Macroeconomics</td>
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Junior Year Spring Semester – 18 Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 MEEG 4413 Heat Transfer</td>
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<tr>
<td>3 ELEG 3913 Engineering Electronics</td>
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<tr>
<td>4 MEEG 4104 Machine Element Design</td>
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<tr>
<td>2 MEEG 3212 Mechanical Engineering Lab II</td>
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<td>3 Fine Arts/Humanities/ Social Sciences requirement 2</td>
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<td>3 Technology or science elective 3</td>
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Mechanical Engineering

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING DEGREE (BSME)

MAJOR CODE: 3042

Freshman Year Fall Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>1 ENGN 1111 Introduction to Engineering I</td>
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<td>2 ENGN 1022 Engineering Analysis</td>
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<tr>
<td>3 ENGL 1203 Freshman English I</td>
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<td>4 MATH 2804 Calculus I</td>
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<tr>
<td>4 CHEM 1403/1401 College Chemistry/Lab I</td>
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<td>2 CADD 1302 Graphics for Engineers</td>
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Senior Year Fall Semester – 14 Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>MEEG 4132</th>
<th>Professional Engineering Practice</th>
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<tr>
<td></td>
<td>MEEG 4202</td>
<td>Mechanical Engineering Lab III</td>
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<td>1</td>
<td>MEEG 4131</td>
<td>Creative Project I</td>
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<td>3</td>
<td>MEEG 4483</td>
<td>Thermal Systems Analysis &amp; Design</td>
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<tr>
<td>3</td>
<td>Mechanical engineering elective</td>
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<tr>
<td>3</td>
<td>Fine Arts/Humanities/</td>
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<td></td>
<td>Social Sciences requirement</td>
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Senior Year Spring Semester – 15 Hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>MEEG 4133</th>
<th>Creative Project Design II</th>
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<tbody>
<tr>
<td></td>
<td>Technology or science elective</td>
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<tr>
<td>3</td>
<td>Fine Arts/Humanities/</td>
<td></td>
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<tr>
<td></td>
<td>Social Sciences requirement</td>
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<td></td>
</tr>
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<td></td>
<td>Social Sciences requirement</td>
<td></td>
</tr>
</tbody>
</table>

**129 Total Hours**

At least 45 hours must be upper-level.

*Notes*

1. General Education Core Requirements, see Graduation Requirements in this catalog. A speech course is NOT required.

2. Fine Arts, Humanities, Social Sciences, 12 hours. Students must consult with UA Fayetteville faculty advisor.


**Geology**

**GEOLGY MINOR**

**MINOR CODE: A025**

The minor in geology requires 17 hours of coursework.

**Required eight hours:**

<table>
<thead>
<tr>
<th>GEOL 2313/2311</th>
<th>Minerals and Rocks/Lab</th>
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<tbody>
<tr>
<td>GEOL 1253/1251</td>
<td>Physical Geology/Lab</td>
</tr>
<tr>
<td>PHSC 2653/2651</td>
<td>Earth Science/Lab</td>
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**Select nine hours:**

| GEOL 3263 | Historical Geology     |
| GEOL 3403 | Structural Geology     |
| GEOL 3833 | Environmental Geology  |
| PHSC 3103 | Paleoclimatology       |

**Information Technology**

**BACHELOR OF SCIENCE (BS) DEGREE**

Database Management  Programming
Networking  Web Developer

**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

Information Technology

**INFORMATION TECHNOLOGY CAREERS**

**Database Developer/Administrator:**

Data is rapidly becoming the most important intellectual property of an enterprise. Database developers and administrators help companies manage valuable data by creating the structures, tools, forms, and reports necessary for the workplace.

**Networking:**

Network design and administration professionals are the enablers of the Internet, intranets, and extranets, as well as local area, wide area, and wireless private and public networks.

**Programming:**

Programmers help develop software solutions and mobile applications that are necessary to successfully solve a client’s problem. The program enables students to use a number of modern programming languages in a hands-on environment that focuses on the application of theories and concepts.

**Web Developer:**

Business-to-business and business-to-consumer applications are redefining the competitive landscape. Web developers play a critical role helping firms realize digital ideas through sites that offer catalog information, advertising, electronic procurement transactions, and other types of customer support.

The University of Arkansas - Fort Smith is collaborating with the ADTEC University Center in the Arkansas Delta Region to offer the BS in Information Technology degrees. These degrees are accessible through compressed video, the Web, and on-site class meetings through Arkansas Northeastern College, Arkansas State University - Newport, East Arkansas Community College, Mid-South
InformatIon TechnoLogy
DATABASE MANAgement
BAChelor of SCience (BS) DEgReE
MAJOR CODE: 1043

Freshman Year Fall Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tr>
<td>3</td>
<td>English composition requirement</td>
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<tr>
<td>3 MATH 1403</td>
<td>College Algebra or higher</td>
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<tr>
<td>3 ITC 1353</td>
<td>Logic and Design for IT</td>
</tr>
<tr>
<td>4 ITC 1614</td>
<td>Network Fundamentals</td>
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Freshman Year Spring Semester – 17 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement</td>
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<tr>
<td>4 Lab science requirement</td>
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</tr>
<tr>
<td>3 ITC 1123</td>
<td>IT Project Tools</td>
</tr>
<tr>
<td>3 ITC 1143</td>
<td>Website Design</td>
</tr>
<tr>
<td>4 ITC 2324</td>
<td>Introductory Programming</td>
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Sophomore Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 SPCH 1203</td>
<td>Introduction to Speech Communication</td>
</tr>
<tr>
<td>3 Fine Arts/Humanities/Social Sciences requirement</td>
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<tr>
<td>4 ITC 2334</td>
<td>Advanced Programming</td>
</tr>
<tr>
<td>3 ITC 2513</td>
<td>Data Modeling</td>
</tr>
<tr>
<td>3 ITC 2753</td>
<td>e-Commerce Technology</td>
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Sophomore Year Spring Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>4 Lab science requirement</td>
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<tr>
<td>3 Fine Arts/Humanities/Social Sciences requirement</td>
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</tr>
<tr>
<td>4 ITC 2524</td>
<td>Database &amp; Queries</td>
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<tr>
<td>4 ITC 2624</td>
<td>Network Client Support</td>
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Junior Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4 ITF 3634</td>
<td>Enterprise Java Programming</td>
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<tr>
<td>3 STAT 2503</td>
<td>Probability and Statistics</td>
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Junior Year Spring Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 ITD 3213</td>
<td>Database Administration I</td>
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<tr>
<td>3 ITD 3313</td>
<td>Database Application Development</td>
</tr>
<tr>
<td>4 ITF 3444</td>
<td>Computer Architecture and Operations</td>
</tr>
<tr>
<td>3 RHET 3603</td>
<td>Writing for the Workplace</td>
</tr>
<tr>
<td>3 MATH 2403</td>
<td>Survey of Calculus</td>
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Senior Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3 Fine Arts/Humanities/Social Sciences requirement</td>
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<tr>
<td>3 History/Government requirement</td>
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<tr>
<td>3 ITD 4223</td>
<td>Database Administration II</td>
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<td>4 ITF 4104</td>
<td>Systems Analysis and Design</td>
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Senior Year Spring Semester – 16 hours

<table>
<thead>
<tr>
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<td>4 Lab science requirement</td>
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<tr>
<td>3 Fine Arts/Humanities/Social Sciences requirement</td>
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</tr>
<tr>
<td>4 ITF 4333</td>
<td>Database Performance Tuning</td>
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<td>4 ITF 4114</td>
<td>Capstone</td>
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<td>3 ITF 4123</td>
<td>Information Technology Security</td>
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<td>3 IT upper-level requirement</td>
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128 Total Hours
At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements in the catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. IT upper-level requirements six hours. Consult with advisor.

InformatIon TechnoLogy, neTworkIng
BAChelor of SCience (BS) DEgReE
MAJOR CODE: 1041

Freshman Year Fall Semester – 16 Hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3 ITD 3113</td>
<td>Advanced SQL</td>
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<td>3 ITD 3123</td>
<td>Stored Procedures</td>
</tr>
<tr>
<td>3 ITD 3133</td>
<td>Data Warehousing</td>
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</tbody>
</table>

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167
### Information Technology, Programming Bachelor of Science (BS) Degree

**Major Code: 1040**

#### Freshman Year Fall Semester – 16 hours

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement</td>
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<td>3</td>
<td>MATH 1403 College Algebra or higher</td>
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<td>3</td>
<td>ITC 1353 Logic and Design for IT</td>
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<td>ITC 1403 Operating Systems</td>
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<td>4</td>
<td>ITC 1614 Network Fundamentals</td>
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<tr>
<td>3</td>
<td>English composition requirement</td>
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<td>4</td>
<td>Lab science requirement</td>
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<tr>
<td>3</td>
<td>ITC 1123 IT Project Tools</td>
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<td>ITC 1143 Website Design</td>
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<td>ITC 2324 Introductory Programming</td>
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#### Sophomore Year Fall Semester – 16 hours

<table>
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<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>SPCH 1203 Introduction to Speech Communication</td>
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<td>Fine Arts/Humanities/ Social Sciences requirement</td>
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<td>ITC 2334 Advanced Programming</td>
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<td>ITC 2513 Data Modeling</td>
</tr>
<tr>
<td>3</td>
<td>ITC 2753 e-Commerce Technology</td>
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#### Sophomore Year Spring Semester – 15 hours

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<tr>
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<th>*Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>Lab science requirement</td>
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<tr>
<td>3</td>
<td>Fine Arts/Humanities/ Social Sciences requirement</td>
</tr>
<tr>
<td>4</td>
<td>ITC 2524 Database &amp; Queries</td>
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<tr>
<td>4</td>
<td>ITC 2624 Network Client Support</td>
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#### Junior Year Fall Semester – 17 hours

<table>
<thead>
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<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>Fine Arts/Humanities/ Social Sciences requirement</td>
</tr>
<tr>
<td>4</td>
<td>ITF 3634 Enterprise Java Programming</td>
</tr>
<tr>
<td>3</td>
<td>ITN 3113 Windows System Administration</td>
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<td>4</td>
<td>ITN 3214 Internetworking I</td>
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<td>3</td>
<td>STAT 2503 Probability and Statistics</td>
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#### Junior Year Spring Semester – 17 hours

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<tr>
<td>4</td>
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<td>3</td>
<td>ITN 3133 Linux System Administration</td>
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<td>RHET 3603 Writing for the Workplace</td>
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<td>3</td>
<td>MATH 2403 Survey of Calculus</td>
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#### Senior Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>3</td>
<td>Fine Arts/Humanities/ Social Sciences requirement</td>
</tr>
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<td>3</td>
<td>History/Government requirement</td>
</tr>
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<td>4</td>
<td>ITN 3234 Internetworking III</td>
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<td>3</td>
<td>ITN 4353 Network Analysis and Design</td>
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<tr>
<td>3</td>
<td>IT upper-level requirement</td>
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</table>

#### Senior Year Spring Semester – 14 hours

<table>
<thead>
<tr>
<th>Hours</th>
<th>*Notes</th>
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<tbody>
<tr>
<td>4</td>
<td>ITF 4114 Capstone</td>
</tr>
<tr>
<td>3</td>
<td>ITF 4123 Information Technology Security</td>
</tr>
<tr>
<td>4</td>
<td>ITN 4344 Network Security and Firewalls</td>
</tr>
<tr>
<td>3</td>
<td>IT upper-level requirement</td>
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</table>

128 Total Hours

At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements in the catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. IT upper-level requirements six hours. Consult with advisor.
1. General Education Core Requirements, see Graduation Requirements in the catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. IT upper-level requirements, six hours. Consult with advisor.

### INFORMATION TECHNOLOGY, WEB DEVELOPER
**BACHELOR OF SCIENCE (BS) DEGREE**
**MAJOR CODE: 1042**

#### Freshman Year Fall Semester – 16 hours
<table>
<thead>
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<tr>
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<tr>
<td>3</td>
<td>Fine Arts/Humanities/ Social Sciences requirement</td>
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<tr>
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<td>3</td>
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#### Freshman Year Spring Semester – 17 hours
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<tbody>
<tr>
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<tr>
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<td>ITC 3113 Advanced SQL</td>
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<td>ITF 3634 Enterprise Java Programming</td>
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<td>3</td>
<td>ITP 3413 Data Structures</td>
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<tr>
<td>3</td>
<td>ITP 3243 COBOL</td>
</tr>
<tr>
<td>3</td>
<td>STAT 2503 Probability and Statistics</td>
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#### Sophomore Year Fall Semester – 16 hours
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<tr>
<th>Hours</th>
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<tr>
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#### Sophomore Year Spring Semester – 15 hours
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<td>ITC 2524 Database &amp; Queries</td>
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#### Junior Year Fall Semester – 16 hours
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<tr>
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#### Junior Year Spring Semester – 16 hours
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<tr>
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#### Senior Year Fall Semester – 16 hours
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<td>Fine Arts/Humanities/ Social Sciences requirement</td>
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<td>ITP 4213 Web Services</td>
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<td>ITP 4123 Information Technology Security</td>
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<td>RHET 3603 Writing for the Workplace</td>
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<td>3</td>
<td>MATH 2403 Survey of Calculus</td>
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</table>

128 Total Hours
At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements in the catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. IT upper-level requirements, six hours. Consult with advisor.
### Junior Year Fall Semester – 16 hours

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<tbody>
<tr>
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<td>ITW 3123 Web Graphics 2</td>
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<td>STAT 2503 Probability and Statistics</td>
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### Junior Year Spring Semester – 16 hours

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### Senior Year Fall Semester – 15 hours

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<tr>
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<td>ITW 4263 Server-Side Web Applications 2</td>
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<td>MATH 2403 Survey of Calculus</td>
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### Senior Year Spring Semester – 17 hours

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<tbody>
<tr>
<td>3</td>
<td>Fine Arts/Humanities/Social Sciences requirement 1</td>
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<td>ITF 4123 Information Technology Security 2</td>
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<td>ITP 4213 Web Services 2</td>
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</table>

128 Total Hours
At least 45 must be upper-level

*Notes
1. General Education Core Requirements, see Graduation Requirements in the catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. IT upper-level requirements six hours. Consult with advisor.

### INFORMATION TECHNOLOGY

#### ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

#### MAJOR CODE: 1045

### Freshman Year Fall Semester – 16 hours

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<td>MATH 1403 College Algebra or higher</td>
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<td>ITC 1353 Logic and Design for IT 2</td>
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<td>ITC 1403 Operating Systems 2</td>
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<td>ITC 1614 Network Fundamentals 2</td>
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### Freshman Year Spring Semester – 17 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>English composition requirement 1</td>
</tr>
<tr>
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<td>Lab science requirement 1</td>
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<td>ITC 1123 IT Project Tools 2</td>
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<td>3</td>
<td>ITC 1143 Website Design 2</td>
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<td>4</td>
<td>ITC 2324 Introductory Programming 2</td>
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### Sophomore Year Fall Semester – 16 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>SPCH 1203 Introduction to Speech Communication</td>
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<tr>
<td>3</td>
<td>Social Sciences requirement 1</td>
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<td>4</td>
<td>ITC 2334 Advanced Programming 2</td>
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<td>3</td>
<td>ITC 2513 Data Modeling 2</td>
</tr>
<tr>
<td>3</td>
<td>ITC 2753 e-Commerce Technology 2</td>
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### Sophomore Year Spring Semester – 15 hours

<table>
<thead>
<tr>
<th>Hours</th>
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<tbody>
<tr>
<td>3</td>
<td>Fine Arts or Humanities requirement 1</td>
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<tr>
<td>4</td>
<td>ITC 2524 Database &amp; Queries 2</td>
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<tr>
<td>4</td>
<td>ITC 2624 Network Client Support 2</td>
</tr>
<tr>
<td>4</td>
<td>ITC 2114 Capstone 2</td>
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</table>

64 Total Hours

*Notes
1. General Education Core Requirements, see Graduation Requirements in this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
   Student must maintain a 2.00 cumulative GPA in these courses.

#### IT - DATABASE TECHNOLOGY MINOR

#### MINOR CODE: A013

The minor in IT - Database Technology requires 16 hours of coursework.
Required 16 hours:
ITC  2513  Data Modeling
ITC  2524  Database and Queries
ITD  3113  Advanced SQL
ITD  3133  Data Warehousing
ITD  3213  Database Administration I

**IT - WEB DEVELOPMENT MINOR**
**MINOR CODE: A012**
The minor in IT - Web Development requires 16 hours of coursework.

Required 16 hours:
ITC  2324  Introductory Programming
ITC  1143  Web Site Design
ITW  3123  Web Graphics
ITW  3253  Client-Side Scripting - JavaScript
ITW  4263  Server - Side Web Applications

**Mathematics**
**BACHELOR OF SCIENCE (BS) DEGREE**
**MAJOR CODE: 3063**

**Freshman Year Fall Semester – 16 hours**
Hours *Notes
3  English composition requirement 1
4  MATH  2804  Calculus I
3  SPCH  1203  Introduction to Speech Communication
3  Fine Arts/Humanities/
   Social Sciences requirement 1
3  History/Government requirement 1

**Freshman Year Spring Semester – 15 hours**
Hours *Notes
3  English composition requirement 1
3  MATH  1903  Introductory Discrete Mathematics
2  MATH  2702  Mathematics Technology
2  MATH  2854  Calculus II
3  Fine Arts/Humanities/
   Social Sciences requirement 1

**Sophomore Year Fall Semester – 16 hours**
Hours *Notes
3  ECON  2813  Principles of Microeconomics
4  MATH  2904  Calculus III
3  MATH  3103  Foundations of Mathematics 2
3  Fine Arts/Humanities/
   Social Sciences requirement 1
3  Additional degree requirement 4

**Sophomore Year Spring Semester – 14 hours**
Hours *Notes
3  MATH  3203  Applied Linear Algebra 2
4  PHYS  2903/2911 University Physics I/Lab
3  Mathematics elective 2 & 3
4  General education elective 5

**Junior Year Fall Semester – 16 hours**
Hours *Notes
4  PHYS  2923/2931 University Physics II/Lab
3  STAT  3503  Applied Mathematical Statistics I 2
3  Mathematics elective 2 & 3
3  Additional degree requirement 4
3  Additional degree requirement 4

**Junior Year Spring Semester – 14 hours**
Hours *Notes
1  MATH  3901  Mathematics Seminar 2
3  MATH  4403  Abstract Algebra 2
4  General education elective 5
3  Additional degree requirement 4
3  Additional degree requirement 4

**Senior Year Fall Semester – 15 hours**
Hours *Notes
3  HIST  4203  History of Mathematics
3  Mathematics elective 2 & 3
3  Additional degree requirement 4
3  Additional degree requirement 4
3  Additional degree requirement 4

**Senior Year Spring Semester – 14 hours**
Hours *Notes
2  MATH  4992  Senior Project in Mathematics 2
3  Mathematics elective 2 & 3
3  Additional degree requirement 4
3  Additional degree requirement 4
3  Additional degree requirement 4

---
120 Total Hours
At least 45 hours must be upper-level
**Notes**

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: Social Sciences- ECON 2813 is required and select one additional course from the list.

2. These courses are used to determine major courses in residency, see Graduation Requirements in this catalog.

3. Mathematics elective, 12 hours: Select either MATH 4303 or MATH 3403 and nine hours of MATH electives. Consult with faculty advisor.

4. Additional Degree Requirements, 33 hours. At least 18 hours of a minor and electives as needed to total 120 hours. Consult with faculty advisor. Must select courses to ensure completion of 45 upper level hours required for graduation.

5. General Education elective, eight hours, choose from the following areas: FREN, GERM, SPAN, FORL, RHET (if not used to fill English composition requirement), PHIL (if not used to fill humanities requirement), ITA (three hours maximum), ITC, ITD, ITF, ITN, ITP, ITW, ECON, POLS, or a lab science in BIOL, CHEM, GEOL, or PHSC (if not used to fill lab science requirement). Consult with faculty advisor.

Mathematics with Teacher Licensure 7-12

**BACHELOR OF SCIENCE (BS) DEGREE**

**MAJOR CODE: 3568**

**Freshman Year Fall Semester – 15 hours**

<table>
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<tr>
<td>3</td>
<td>English composition requirement 1 &amp; 4</td>
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<td>MATH 2804 Calculus I 2 &amp; 4</td>
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<td>SPCH 1203 Introduction to Speech Communication 4</td>
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<td>SPAN 1304 Beginning Spanish I 4</td>
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**Freshman Year Spring Semester – 16 hours**

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<td>MATH 2702 Mathematics Technology 2 &amp; 4</td>
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<td>MATH 2854 Calculus II 2</td>
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<tr>
<td>1</td>
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<td>EDUC 3221 Practicum I 5 &amp; 7</td>
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<td>MATH 3813 Mathematics Pedagogy: Spatial Relations or MATH 3823 Mathematics Pedagogy: Upper Secondary 2</td>
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<td>PHYS 2903/2911 University Physics I/Lab 2</td>
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**Sophomore Year Fall Semester – 16 hours**

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<td>MATH 3803 Mathematics Pedagogy: Numerical Systems 2</td>
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Admission to College of Education Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

**Junior Year Fall Semester – 14 hours**

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<td>PHYS 2923/2931 University Physics II/Lab 2</td>
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**Junior Year Spring Semester – 16 hours**

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<tbody>
<tr>
<td>2</td>
<td>EDUC 4222 Assessment 5</td>
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Senior Year Fall Semester – 16 hours

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<td>SPED 3022</td>
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<td>MATH 4992</td>
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<td>Mathematics Pedagogy: Spatial Relations or</td>
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<td>Mathematics Pedagogy: Upper Secondary</td>
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Senior Year Spring Semester – 12 hours

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120 Total Hours

At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with these stipulations: history/government-POLS 2753 is required and select one from HIST 2753 or 2763; social sciences- ECON 2813 is required and select one course from list.

2. These courses are used to determine major courses in residency. Student must have a minimum GPA of 2.75 in these courses to meet graduation requirements, College of Education.

3. PHYE activity courses, two hours. Select two PHYE activity courses from 1011, 1101, 1021, 1261, 1321, 1551, 1561, 1571, 1621, or 2571.

4. Requirements for Admission in Teacher Education Program (TEP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding College of Education admission requirements and for courses taken after admission to program.

5. Must be admitted to the College of Education Teacher Education Program.

6. Additional Degree Requirements, six hours. Consult with faculty advisor.

7. Program requirement - course must be completed with a grade of “B” or better.

MATHEMATICS MINOR
MINOR CODE: A005

The minor in mathematics requires 18 hours of coursework.

Required seven hours:
- MATH 2854 Calculus II
- STAT 3503 Applied Mathematical Statistics I

Select 11 hours:
- MATH 2904 Calculus III
- MATH 2914 Differential Equations
- MATH 3103 Foundations of Mathematics
- MATH 3205 Pure Mathematics
- MATH 3303 Discrete Mathematics
- MATH 3403 College Geometry
- MATH 3603 Mathematical Modeling I
- MATH 4103 Linear Algebra
- HIST/MATH 4203 History of Mathematics
- MATH 4303 Real Analysis I
- MATH 4403 Abstract Algebra
- MATH 4433 Group Theory
- MATH 4443 Combinatorics
- MATH 4703 Numerical Analysis
- MATH 4803 Complex Analysis
- MATH 4913 Partial Differential Equations
- STAT 4503 Applied Mathematical Statistics II

Physics

PHYSICS MINOR
MINOR CODE: A026

The minor in physics requires 15-17 hours of coursework.

Required nine hours:
- PHYS 2933 University Physics III
- PHYS 3103 Modern Physics
- PHYS 3203 Math Methods in Science I

Select six - eight hours:
- PHYS 3303 Math Methods in Science II
- PHYS 3403 Classical Mechanics
- PHYS 3503 Classical Thermodynamics
- PHYS 3803 Electricity and Magnetism

Non-chemistry majors may use:
- CHEM 4504 Physical Chemistry I
  and
- CHEM 4514 Physical Chemistry II
UAFS, in its role as a comprehensive regional university, acts in partnership with other universities to meet the needs of students and the region for additional degree programs through the University Center. For engineering programs, students may complete the freshman and sophomore courses through UAFS and the junior- and senior-level courses through the sponsoring university. All courses are taught on the UAFS campus. Registration, financial aid arrangements, and textbooks are processed through UAFS for the engineering programs. The university offering the junior and senior level courses will award the baccalaureate degree. Please contact the institutional representative below for additional information on each program.

**Degree Programs Through the University Center**

Currently, three baccalaureate degrees are available through the University Center. The degrees are as follows:

**Bachelor of Science in Education with a Human Resource Development Concentration**

Institutional Representative
Dr. John R. Jones
(479) 788-7908

**Bachelor of Science in Electrical Engineering**

**Bachelor of Science in Mechanical Engineering**

Institutional Representative
Dr. Michael Reynolds
(479) 788-7719

**Tuition and Fees for the University Center**

Tuition and fees are determined by each participating university and are subject to change without notice. University Center students are also charged UAFS fees.

Students completing their program through the University Center and who need financial assistance may apply through UAFS's Financial Aid Office on the second floor Smith-Pendergraft Campus Center. UAFS's policies for tuition refunds apply to University Center courses.
# COURSE PREFIX INDEX

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Course Symbols

UAFS courses are identified by a four-digit number. The first digit indicates the course level; “0” indicates courses which do not apply toward graduation; “1” indicates first-year or freshman-level courses; “2” indicates second-year or sophomore-level courses; “3” indicates third-year or junior-level courses; “4” indicates fourth-year or senior-level courses; and “C” indicates credit courses in continuing education. The second and third digits indicate course sequencing. The final digit indicates the number of semester hours of credit: 1 = 1, 2 = 2, etc. For courses offering more than nine hours of credit, a letter will replace the final digit: A = 10, B = 11, C = 12, etc.

To the right of the course number and title are a number and the symbol “CR.” This indicates the number of semester hours of credit for the course. The numbers and symbols next to the number of credits such as (3 LEC.) Indicate the number of hours per week spent in various types of instructional activities. The abbreviations and their meanings are as follows:

- Act. — Activity (primarily physical education courses)
- Lab. — Laboratory
- Lec. — Lecture
- Part. — Participation (primarily music courses)
- Stu. — Studio (primarily art courses)
- Ind. Stu. — Independent Study

ACCT Accounting

ACCT 2803 PRINCIPLES OF FINANCIAL ACCOUNTING 3 CR. (3 LEC.)
Prerequisites: MATH 1403 College Algebra or higher math course.
Emphasizes principles and procedures involved in the accounting process. An understanding and use of basic accounting data are stressed. Major topics covered include the basic accounting framework, financial statements, current and long-term assets and liabilities, and corporate accounting. (ACTS: ACCT 2003)

ACCT 2813 PRINCIPLES OF MANAGERIAL ACCOUNTING 3 CR. (3 LEC.)
Prerequisites: ACCT 2803 Principles of Financial Accounting and MATH 1403 College Algebra or higher math.

ACCT 3003 INTERMEDIATE ACCOUNTING I 3 CR. (3 LEC.)
Prerequisites: ACCT 2813 Principles of Managerial Accounting and MATH 2403 Survey of Calculus or higher math and admission to the College of Business, or consent of instructor.
An in-depth study of financial statements, the accounting process, inventory valuation procedures, operational assets, and investments.

ACCT 3013 INTERMEDIATE ACCOUNTING II 3 CR. (3 LEC.)
Prerequisite: ACCT 3003 Intermediate Accounting I and admission to the College of Business, or consent of instructor.
A detailed study of the corporate form of organization. In addition, effort is devoted to error corrections, analysis of financial statements, funds flow and cash flow reporting, and the controversial areas of accounting.

ACCT 3023 COST ACCOUNTING 3 CR. (3 LEC.)
Prerequisites: ACCT 2813 Principles of Managerial Accounting, MGMT 2963 Business Statistics, and admission to the College of Business, or consent of instructor.
General principles of cost accounting, including the methods of collection, preparation, and interpretation of cost data for industrial and commercial concerns, comprehensive budgets, and standard costs.
ACCT 3043 ADVANCED
COST ACCOUNTING 3 CR. (3 LEC.)
Prerequisite: ACCT 3023 Cost Accounting and admission to the College of Business, or consent of instructor.
Discussion of advanced topics in ACCT 3023 Cost Accounting. Includes decision models and cost information, cost allocation, and management controls.

ACCT 3053 ACCOUNTING INFORMATION SYSTEMS 3 CR. (3 LEC.)
Prerequisites: demonstrated competency in business computing as defined by the College of Business, ACCT 2813 Principles of Managerial Accounting, and MATH 2403 Survey of Calculus or higher math course and admission to the College of Business, or consent of instructor.
Study of the role, design, characteristics, and function of accounting information systems.

ACCT 3123 GOVERNMENTAL AND
NOT-FOR-PROFIT ACCOUNTING 3 CR. (3 LEC.)
Prerequisites: junior-level standing and ACCT 3003 Intermediate Accounting I and admission to the College of Business, or consent of instructor.
Accounting principles and reporting standards as applied to governmental units and not-for-profit enterprises. Special emphasis is placed on pronouncements of the Governmental Accounting Standards Board.

ACCT 4013 TAX ACCOUNTING I 3 CR. (3 LEC.)
Prerequisite: ACCT 2813 Principles of Managerial Accounting and admission to the College of Business, or consent of instructor.
Examines the laws, rules, and procedures of federal income taxes for individuals.

ACCT 4023 ADVANCED ACCOUNTING 3 CR. (3 LEC.)
Prerequisite: ACCT 3013 Intermediate Accounting II, and admission to the College of Business, or consent of instructor.
Advanced study of accounting concepts and problems in the areas of business combinations, partnerships, and international accounting.

ACCT 4053 AUDITING 3 CR. (3 LEC.)
Prerequisites: ACCT 3013 Intermediate Accounting II, MGMT 2963 Business Statistics and admission to the College of Business, or consent of instructor.
Prerequisite or corequisite: ACCT 3053 Accounting Information Systems.
Study of the standards and procedures of auditing, code of ethics, reporting, and the principles underlying the verification of data presented in financial reports.

ACCT 4113 TAX ACCOUNTING II 3 CR. (3 LEC.)
Prerequisite: ACCT 4013 Tax Accounting I and admission to the College of Business, or consent of instructor.
Continuation of Tax Accounting I. Emphasis on federal income tax laws for partnerships, fiduciaries, and corporations.

ACCT 4153 FORENSIC ACCOUNTING 3 CR. (3 LEC.)
Prerequisites: ACCT 4053 Auditing and admission to the College of Business, or consent of instructor.
Emphasizes key issues relevant to forensic accounting and fraud examination, including audit committee and liability-related issues. Students will be exposed to applicable authoritative literature, as well as to tools and methods used by modern forensic accountants and auditors to identify, report, and ultimately, prevent financial statement frauds.

ACCT 447V INDEPENDENT STUDY
IN ACCOUNTING 1-3 CR. (VARIABLE)
Prerequisites: admission to the College of Business and consent of instructor and department head.
Prerequisite or corequisite: may vary depending on topic.
Individual problems or topics in accounting arranged in consultation with instructor. May be repeated for a total of six hours.

ACCT 457V SPECIAL TOPICS
IN ACCOUNTING 1-3 CR. (VARIABLE)
Prerequisite: admission to the College of Business or consent of instructor.
Prerequisite or corequisite: may vary depending on topic.
Topics and current issues of critical importance to the field of accounting. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of 9 total hours.

ACCT 467V INTERNSHIP
IN ACCOUNTING 1-4 CR. (VARIABLE)
Prerequisites: admission to the College of Business, overall GPA of 2.5, consent of instructor and any additional criteria as specified for the position.
Prerequisite or corequisites: ACCT 3003 Intermediate Accounting I and MGMT 3153 Organizational Behavior.

Designed to offer practical accounting experience working with an area business along with classroom instruction. The classroom instructor and a business representative will jointly supervise the external intern experience. Amount of credit is dependent upon the hours worked during the semester.

**ADN 1508**
**NURSING FUNDAMENTALS**  8 CR. (4 LEC., 12 LAB)

Prerequisite: BIOL 1523/1521 Anatomy & Physiology I/Lab, CHEM 1303 Chemical Principles or higher chemistry course, CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Prerequisites or corequisites: MATH 1403 College Algebra or higher, and BIOL 1531/1533 Anatomy & Physiology II/Lab.

Introduces the application of the nursing process to the roles of the associate degree nurse, which include assessment and intervention, communication skills, critical thinking skills, human caring and relationship skills, teaching skills, management skills, leadership skills, and knowledge integration skills. Maslow's hierarchy is used to identify and prioritize the needs of older adult clients with common health problems.

**ADN 2719**
**MATERNAL, CHILD, & MENTAL HEALTH**  9 CR. (3 LEC., 18 LAB)

Prerequisites: ADN 1508 Nursing Fundamentals, and CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Prerequisites or corequisites: MATH 1403 College Algebra or higher, and BIOL 1531/1533 Anatomy & Physiology II/Lab.

Introduces the application of the nursing process to the roles of the associate degree nurse, which include assessment and intervention, communication skills, critical thinking skills, human caring and relationship skills, teaching skills, management skills, leadership skills, and knowledge integration skills. Maslow's hierarchy is used to identify and prioritize the needs of the childbearing family, pediatric clients, and mentally ill clients.

**ADN 2729**
**ADVANCED ADULT MEDICAL/SURGICAL II**  9 CR. (4 LEC., 15 LAB)

Prerequisites: ADN 2719 Maternal, Child and Mental Health, and CPR certification: American Heart Association “CPR for Healthcare Providers.”

Prerequisites or corequisites: PSYC 2963 Developmental Psychology: A Life Span, and ADN 2773 Client Care Management.

Introduces the application of the nursing process to the roles of the associate degree nurse, which include assessment and intervention, communication skills, critical thinking skills,
human caring and relationship skills, teaching skills, management skills, leadership skills, and knowledge integration skills. Maslow’s hierarchy is used to identify and prioritize the needs of adult medical/surgical clients who are critically ill.

**ADN 2756**  
**NURSE REFRESHER**  
6 CR. (3 LEC., 6 LAB)

Prerequisites: current RN or LPN license or temporary permit for the duration of the course; current immunizations, and CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Designed as a review and update of knowledge and skills for nurses who wish to return to the workforce with confidence after a period of absence from active nursing. The emphasis is on application of the nursing process in providing care to clients.

**ADN 2773**  
**CLIENT CARE MANAGEMENT**  
3 CR. (1 LEC., 6 LAB)

Prerequisites: ADN 2719 Maternal, Child and Mental Health, and CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Corequisite or prerequisite: ADN 2729 Advanced Adult Medical/Surgical II.

This theoretical and clinical capstone course allows students to focus on the role of manager of care and to apply management principles. A concentrated clinical experience with a preceptor enables students to care for and manage a group of adult medical/surgical clients in an acute care setting.

**AERO Air Force (ROTC)**

The U.S. Air Force offers the Air Force ROTC program on the University of Arkansas, Fayetteville campus for interested UAFS students. Students enroll for the AERO courses through UAFS and take the courses on the Fayetteville campus. Scholarships and financial assistance are available for interested, qualified students. For program and scholarship information, contact the Air Force ROTC Office, U of A Fayetteville campus at (479) 575-3651. Interested students enroll for courses through Student Advisement at UAFS.

**AERO 1011**  
**THE AIR FORCE TODAY I**  
1 CR. (1 LEC., 2 LAB)

Prerequisite: freshman standing.

An introductory course examining the role of the U.S. military in the contemporary world, with particular attention to the organization and mission of the U.S. Air Force. Functional areas of coverage include officership and professional opportunities, communication skills, strategies, offensive and defensive forces, general purpose forces, and aerospace support forces.

**AERO 1021**  
**THE AIR FORCE TODAY II**  
1 CR. (1 LEC., 2 LAB)

Prerequisite: freshman standing.

A continuation of AERO 1011. An introductory course examining the role of the U.S. military in the contemporary world, with particular attention to the organization and mission of the U.S. Air Force. Functional areas of coverage include officership and professional opportunities, Air Force Core Values, group leadership problems, communication skills, strategies, offensive and defensive forces, general purpose forces, and aerospace support forces.

**AERO 2011**  
**THE EVOLUTION OF USAF AIR AND SPACE POWER I**  
1 CR. (1 LEC., 2 LAB)

Prerequisite: sophomore standing.

Study of the role of the U.S. military forces, particularly as related to national defense policy, includes an in-depth analysis of the military instrument of national policy, spectrum of conflict, alliance and strategies, and policies of the European and Asian countries. Study of historical events and leaders surrounding the growth of air power, group leadership problems, and an introduction to communication skills. Making of defense policy and contribution of U.S. defense policies to national objectives are also examined.

**AERO 2021**  
**THE EVOLUTION OF USAF AIR AND SPACE POWER II**  
1 CR. (1 LEC., 2 LAB)

Prerequisite: sophomore standing.

Continuation of AERO 2011. Study of the role of the U.S. military forces, particularly as related to national defense policy, includes an in-depth analysis of the military instrument of national policy, spectrum of conflict, alliance and strategies, and policies of the European and Asian countries. Study of historical events and leaders surrounding the growth of air power, group leadership problems, and an introduction
to communication skills. Making of defense policy and contribution of U.S. defense policies of national objectives are also examined.

**AERO 3013 LEADERSHIP AND MANAGEMENT I**  
3 CR. (3 LEC., 2 LAB)  
Prerequisite: junior standing.  
Study of the Air Force leadership and management fundamentals, professional knowledge, and leadership ethics. Theory and application of general concepts of leadership and management to the military environment. Includes an introduction to information systems, quantitative approaches to decision making, and resource control techniques employed by the Air Force. Group dynamics, personnel management theories, motivation, communication, and contemporary management techniques are explored and developed.

**AERO 3023 LEADERSHIP AND MANAGEMENT II**  
3 CR. (3 LEC., 2 LAB)  
Prerequisite: junior standing.  
Continuation of AERO 3013. Study of the Air Force leadership and management fundamentals, professional knowledge, and leadership ethics. Theory and application of general concepts of leadership and management to the military environment. Includes an introduction to information systems, quantitative approaches to decision making, and resource control techniques employed by the Air Force. Group dynamics, personnel management theories, motivation, communication, and contemporary management techniques are explored and developed.

**AERO 4013 AMERICAN NATIONAL SECURITY/PREPARATION FOR ACTIVE DUTY I**  
3 CR. (3 LEC., 2 LAB)  
Prerequisites: senior standing and successful completion of the summer field training.  
Critical analysis of the American defense policy with an emphasis on the broad range of American civil-military relations and the environmental context in which U.S. national security policy is formulated and implemented. Special themes include: societal attitudes toward the military; the role of the professional military leader-manager in a democratic society; political, economical, and social constraints on the national defense structure; and the impact of technological and international developments on strategies preparedness.

**ANTH Anthropology**

**ANTH 2203 INTRODUCTION TO ARCHAEOLOGY**  
3 CR. (3 LEC.)  
Prerequisite or corequisite: ENGL 1203 Freshman English 1.  
Introduction to the theories and methods of archaeology; basic excavation techniques and the various approaches to understanding the relationship of material artifacts of a culture to their non-material origins. Hands on fieldwork will be part of the coursework.

**ANTH 2303 INTRODUCTION TO BIOLOGICAL ANTHROPOLOGY**  
3 CR. (3 LEC.)  
Prerequisite or corequisite: ENGL 1203 Freshman English 1.  
Introduction to the scientific account of human evolution. Explores the range of biological diversity in primates via fossil evidence and genetics. The interrelationship between biological, cultural, and environmental changes is emphasized.

**ANTH 2803 CULTURAL ANTHROPOLOGY**  
3 CR. (3 LEC.)  
Prerequisite or corequisite: ENGL 1203 Freshman English 1  
Introduces students to the wide variety of existing cultures. Provides conceptual framework for making comparisons between them; tools for understanding cultural variation in language, economics, political processes, kinship structures, gender, and religious beliefs. Explores the impact of cultural interaction
and the distinction between ethnicity and social racial categories. (ACTS: ANTH 2013)

**ANTH 3213**
**WORLD PREHISTORY** 3 CR. (3 LEC.)
Prerequisites: ANTH 2203 Introduction to Archaeology, and one of the following ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Focuses on the rise of civilization in conjunction with the advent of agricultural technologies, market economies, political states, alphabets, and urbanization. Examples are drawn from major developments around the world such as the Fertile Crescent, Egypt, Meso-America, and Asia. Environmental pressures on ancient civilizations will be analyzed.

**ANTH 3303**
**ANTHROPOLOGICAL THEORY** 3 CR. (3 LEC.)
Prerequisite: ANTH 2803 Cultural Anthropology. Examines the range of theories anthropologists have used to describe and explain variability in sociocultural phenomena. Explores the organization of particular theories, as well as issues that separate divergent theories. Major theoretical orientations to be explored include evolutionism, Marxism, Freudianism, structuralism, structural-functionalism, ethnoscience, diffusionism, historical particularism, cultural ecology, sociobiology, and cultural materialism.

**ANTH 3313**
**FORENSIC ANTHROPOLOGY** 3 CR. (3 LEC.)
Prerequisites: ANTH 2303 Introduction to Biological Anthropology, BIOL 1151/1153 Biological Science, and one of the following ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Introduction to the theories and methods of identifying human remains using the various tools of anthropology: biological anthropology, human osteology, and archaeology. Medical and legal requirements for cause of death and identity will be emphasized.

**ANTH 3813**
**NORTH AMERICAN INDIANS** 3 CR. (3 LEC.)
Prerequisites: ANTH 2803 Introduction to Cultural Anthropology, and one of the following ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Explores the existence of human beings in North America from pre-history to contemporary times. Intercultural contact is an underlying theme throughout the course from the prehistoric cultural diffusion of artifacts to the interaction between Indian Nations and the governments of the United States, Canada, and Mexico.

**ANTH 3823**
**ANTHROPOLOGICAL PERSPECTIVES** 3 CR. (3 LEC.)
Prerequisites: ANTH 2803 Introduction to Cultural Anthropology, ANTH 2203 Introduction to Archaeology, ANTH 2303 Introduction to Biological Anthropology, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Traces the historical development and divergence of the theoretical and methodological underpinnings of study and research in physical anthropology, archaeological anthropology, and cultural anthropology. Team taught by specialists in each sub-discipline.

**ANTH 490V**
**SPECIAL TOPICS** 1-3 CR. (VARIABLE)
Prerequisites: ANTH 2803 Cultural Anthropology, ANTH 2203 Introduction to Archaeology, ANTH 2303 Introduction to Biological Anthropology and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Course topics will vary each semester and may include but are not limited to the following: anthropology of business, anthropology of education, anthropology of religion, anthropology of sex and gender, anthropology of race and ethnicity, sociolinguistics, foodways, anthropological theory, Egyptology, bioarchaeology, historical archaeology. May be repeated once when topics differ for up to six hours.

**ANTH 493V**
**ANTHROPOLOGY INDEPENDENT STUDY** 1-3 CR. (VARIABLE)
Prerequisites: ANTH 2803 Cultural Anthropology, ANTH 2203 Introduction to Archaeology, ANTH 2303, Introduction to Biological Anthropology, one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition, and consent of instructor.
Anthropological research and assessment of a topic chosen by the student and approved by instructor. May be repeated once when topics differ for up to six hours.
APRO Administrative Professional and Office Technology

APRO 1103 COMPUTER INPUT TECHNOLOGY 3 CR. (3 LEC.)
Introduces the basics of speech recognition software. Provides in-class instruction and independent practice to learn commands and dictation strategies to assist in mastering skills needed to effectively use speech recognition software. Builds from simple to more complex project-based tasks. Increases personal productivity and reinforces reading and composition skills, as well as proofreading and editing skills.

APRO 1113 CAREER MANAGEMENT 3 CR. (3 LEC.)
Prepares students for success in today’s dynamic workplace. Enables students to adjust to a diversified workforce with emerging technologies in an expanding and global marketplace.

APRO 1203 ADMINISTRATIVE OFFICE PROCEDURES 3 CR. (3 LEC.)
Prerequisite: APRO 1103 Computer Input Technologies.
Introduction to the field of the administrative professional. Covers office procedures such as filing, handling mail, preparing budgets, stress management strategies, importance of workplace ethics, and effective communication in diverse environments. Explores changes and challenges in the 21st century workplace.

APRO 1303 WORKPLACE COMPUTATIONS 3 CR. (3 LEC.)
An introduction to computations necessary for general office work, including basic mathematical concepts, practical applications, and common business problems.

APRO 1603 ELECTRONIC BOOKKEEPING I 3 CR. (3 LEC.)
Prerequisite: APRO 1303 Workplace Computations.
An introduction to the entire accounting cycle from recording transactions using double-entry methods in books of original entry through financial statement preparation. Using special journals and subsidiary ledgers for a merchandising business will also be covered. Spreadsheet and commercial bookkeeping software are used to solve selected problems.

APRO 1653 EMPLOYEE BENEFITS 3 CR. (3 LEC.)
Corequisite: APRO 1303 Workplace Computations.
Promotes a fuller understanding of employee benefits programs for students who plan to be general managers or human resource practitioners.

APRO 1703 ELECTRONIC OFFICE APPLICATIONS 3 CR. (3 LEC.)
Prerequisite: APRO 1103 Computer Input Technology.
Use of word processing using Microsoft Office Word, including appropriate formatting for various types of communication; organizing and utilizing files; using appropriate grammar and correct spelling when composing documents; proofreading accurately; and utilizing network printing.

APRO 2343 PROFESSIONAL AND OFFICE COMMUNICATION 3 CR. (3 LEC.)
Prerequisites: ENGL 1213 Freshman English II.
Introduction to professional and technical office communication skills which are required of administrative professional and office technology professionals. Focuses on understanding and communicating with customers, co-workers and supervisors, as well as writing skills and communicating clearly and concisely, with appropriate style and tone.

APRO 2403 ELECTRONIC BOOKKEEPING II 3 CR. (3 LEC.)
Prerequisite: APRO 1603 Electronic Bookkeeping I.
An introduction of advanced bookkeeping concepts, including financial statements, notes receivables and payables, inventory valuation, depreciation, partnership, corporation and financial analysis. Spreadsheets and commercial accounting software are used to solve selected problems.

APRO 2451 MANAGING INFORMATION TECHNOLOGY 1 CR. (1 LEC.)
An introduction to the challenges administrative professionals face in managing information technology in the office, including gathering information in virtual teams, coordinating projects and meetings across an organization, and transforming data into dynamic presentations. Outside computer practice is required.
APRO 2613 ELECTRONIC DICTATION 3 CR. (3 LEC.)
Prerequisites: APRO 1703 Electronic Office Administration.
Students learn simple-to-complex dictation from a variety of voices and transcribe mailable copy using transcription equipment. Language-arts skills are emphasized through punctuation, word study, proofreading, and spelling exercises.

APRO 2662 LAW OFFICE TECHNOLOGY 3 CR. (1 LEC., 2 LAB)
Prerequisite: ITA 1003 Computer Applications for the Knowledge Worker.
Prerequisite or corequisites: LEGL 2143 Legal Writing and LEGL 2323 Civil Litigation.
Students will be trained in electronic filing and the “digital courtroom” as well as case, client, billing and time management software designed specifically for the law office. Advanced word processing tasks are also covered.

APRO 2803 HUMAN RESOURCE MANAGEMENT FOR ADMINISTRATIVE PROFESSIONALS 3 CR. (3 LEC.)
Prerequisite: APRO 1653 Employee Benefits
A comprehensive view of personnel policy reflecting the changing nature of human resource management in organizations globally which are required of administrative professional and office technology professionals. Students will view the changing workforce composition and globalization, functions of recruitment, development and training, compensation, integration into the workforce, risk managements and employee relations, performance management, staffing, equal employment, diversity management, technology and the internet, human resource metrics, and maintenance of personnel.

APRO 2843 MEDICAL INSURANCE CODING 3 CR. (3 LEC.)
Prerequisite: HLTH 1473 Medical Terminology
Introduction to the general code-matching and diagnosis assignments used in hospitals, clinics, and insurance offices for the healthcare industry. Additional study is provided for dental code-matching as well. Familiarization with standard coding references is provided, and medical scenarios are used to learn the value of appropriate insurance code assignments related to diagnosis, laboratory testing, proper claims, etc.

APRO 2853 MEDICAL INSURANCE AND BILLING 3 CR. (3 LEC.)
Prerequisite: HLTH 1473 Medical Terminology
An introduction to the basic functions of processing medical insurance claims including a step-by-step approach to guide students through the insurance claim form cycle.

APRO 2863 ACADEMIC INTERNSHIP 3 CR. (3 LEC.)
Prerequisites: APRO major with 40 hours in program, 2.75 GPA and consent of instructor.
Students will intern at a local area business or industry with supervised employment and observation. The internship will typically be completed during a fall, spring, or summer semester. Students should be highly motivated and demonstrate a high degree of professionalism.

APRO 2903 PROFESSIONAL BOOKKEEPING 3 CR. (3 LEC.)
Prerequisite: APRO 2403 Electronic Bookkeeping II.
Designed to prepare students to take the Certified Bookkeeper Examination. It covers the level of knowledge and skill needed to carry out all key functions through the adjusted trial balance, including basic payroll.

APRO 2923 INTEGRATED OFFICE PROCEDURES PROJECT 3 CR. (3 LEC.)
Prerequisites: APRO 2343 Professional and Office Communication and ITA 1003 Computer Applications for the Knowledge Worker.
Capstone course providing students with unique opportunities to go beyond the basics and apply creativity in problem solving, and decision making in essential application skills. Special emphasis on current technology used in the offices.

APRO 290V SPECIAL TOPICS 1-3 CR. (VARIABLE)
Prerequisites: consent of instructor.
Special instruction for new and emerging topics in the administrative professional field that are not otherwise covered in the curriculum. Topics offered periodically based on the recognized needs of the field and the availability of the instruction. May be repeated for a total of six hours.
APRO 2983 EMERGING OFFICE TECHNOLOGIES 3 CR. (3 LEC.)
Prerequisite: Prerequisite: APRO 2343 Professional and Office Communication and ITA 1003 Computer Applications for the Knowledge Worker.
Designed to provide emerging and existing administrative professionals the opportunity to research and explore the latest technological advances in the offices and businesses. Course content may change from semester to semester.

APRO 299V ADMINISTRATIVE PROFESSIONAL SPECIAL PROJECTS 1-3 CR. (VARIABLE)
Prerequisites: consent of department head.
Designed for the advanced administrative professional student who has completed or enrolled in all other appropriate administrative professional courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of six hours.

ART

ART 1101 STUDIO ART ADMISSIONS PORTFOLIO 1 CR. (1 LEC.)
Prerequisite or corequisites: ART 1203 Color, ART 1213 2-D Design, ART 1303 Figure Drawing, ART 1313 Drawing, and ART 1403 3-D Design.
Prepares students to submit a comprehensive portfolio of projects from art foundations courses. Students must pass this course to be admitted into the BA in Studio Arts program.

ART 1203 COLOR 3 CR. (2 LEC., 4 STU.)
Introduces color fundamentals, theory, and application. Includes properties, contrasts, relationships, systems, and application of color to the visual arts.

ART 1213 2-D DESIGN 3 CR. (2 LEC., 4 STU.)
An introduction to 2-D design, addressing the elements and principles of design and their planar qualities and applications.

ART 1223 DIGITAL IMAGING 3 CR. (2 LEC., 4 LAB.)
Introduces software applications used in the acquisition, enhancement, and manipulation of digital photographs and like imagery. Topics include color- and image-correction, investigation into illustration applications, fundamental design principles, photography/image manipulation, problem solving, and deadlines.

ART 1303 FIGURE DRAWING 3 CR. (2 LEC., 4 STU.)
Drawing the human figure using traditional materials and techniques. Emphasis on gesture, proportion, volume, structure, and comprehensive drawings of the figure in space.

ART 1313 DRAWING 3 CR. (2 LEC., 4 STU.)
Fundamental drawing elements and their application to pictorial motifs. Visual perception and drawing concepts of planar issues, proportion, pictorial space, modeled drawing, chiaroscuro, and comprehensive application are investigated.

ART 1403 3-D DESIGN 3 CR. (2 LEC., 4 STU.)
Prerequisite: ART 1213 2-D Design.
An introduction to 3-D design, this course will address materials, working in-the-round, form, space, surface, color and their relationship to three dimensional design.

ART 2303 INTRODUCTION TO LETTERPRESS 3 CR. (2 LEC., 4 STU.)
Prerequisites: ART 1101 Studio Art Admission Portfolio, or GRDS 1001 Admissions Portfolio, or consent of instructor.
Introduces the planning, design and printing of limited edition publications, such as cards, broadsides, posters and books using handset movable type and hand-operated printing presses. Covers basic elements of design and typography as it relates to actual hands-on printing, and how this technology is incorporated into contemporary design communication. Integrates other printing processes into letterpress work.

ART 2403 INTRODUCTION TO BOOK ARTS 3 CR. (2 LEC., 4 STU.)
Prerequisites: ART 1101 Studio Art Admission Portfolio, or GRDS 1001 Admissions Portfolio, or consent of instructor.
Introduces the traditions and methods of the handmade book, as well as the expressive possibilities available with books as an art form.

ART 2773 INTRODUCTION TO PAINTING 3 CR. (2 LEC., 4 STU.)
Prerequisites: ART 1203 Color, ART 1213 2-D Design, ART 1303 Figure Drawing, ART 1313 Drawing, and ART 1403 3-D Design or consent of department head.
Introduces concepts and procedures of pure painting using traditional materials. Time honored ideas of perception, application, and assessment are practiced.

**ART 2793 INTRODUCTION TO PRINTMAKING 3 CR. (2 LEC., 4 STU.)**

Prerequisites: ART 1203 Color, ART 1213 2-D Design, ART 1303 Figure Drawing, ART 1313 Drawing, and ART 1403 3-D Design or consent of department head.

Introduces the techniques of relief, intaglio, lithography, and screenprinting. Students create work in each medium, following the historical development of the major printmaking processes.

**ART 2863 SURVEY OF ART HISTORY I 3 CR. (3 LEC.)**

Prerequisite: ENGL 1203 Freshman English I.

Designed to develop an appreciation of the achievements in art in the Western world, from prehistoric times to the 15th century. (ACTS: ARTA 2003)

**ART 2873 SURVEY OF ART HISTORY II 3 CR. (3 LEC.)**

Prerequisite: ENGL 1203 Freshman English I.

Designed to develop appreciation for the achievements in art with emphasis on art in the Western world from the early 15th century to the present. (ACTS: ARTA 2103)

**ART 3303 ANATOMY OF THE FIGURE 3 CR. (2 LEC., 4 STU.)**

Prerequisites: ART 1203 Color, ART 1213 2-D Design, ART 1303 Figure Drawing, ART 1313 Drawing, and ART 1403 3-D Design or consent of department head.

Incorporates an understanding of the skeleton and muscular system as it relates to the structure, composition and drawing of the figure. An overview of the figure in the history of Western art augments sustained life studies from the skeleton and live model.

**ART 3313 ADVANCED DRAWING 3 CR. (2 LEC., 4 STU.)**

Prerequisites: ART 1203 Color, ART 1213 2-D Design, ART 1303 Figure Drawing, ART 1313 Drawing, and ART 1403 3-D Design or consent of department head.

Advanced study of drawing using a variety of material and mediums to resolve perceptual and conceptual projects. Students create drawings by a personal interpretation of assignments that achieve meaningful form and content relative to the objectives of each assignment. Includes representational and abstract imagery.

**ART 3323 ADVANCED PAINTING 3 CR. (2 LEC., 4 STU.)**

Prerequisite: ART 2773 Introduction to Painting or consent of department head.

Concentration on materials, methods, subjects, and content of choice. Form, content and subject matter are open to the student's major course of study or interest.

**ART 3523 HISTORY OF AMERICAN ART 3 CR. (3 LEC.)**

Prerequisite: junior standing or consent of the instructor.

Achievements and issues in painting, architecture, sculpture, and the graphic arts in the United States from the late 18th century to the present. Emphasizes the cultural and critical interpretation of works of art as they relate to American History. Special emphasis placed on pivotal events such as the Armory Show of 1913.

**ART 3753 SCREEN PRINTING 3 CR. (2 LEC., 4 STU.)**

Prerequisites: ART 2793 Introduction to Printmaking or consent of department head.

Presents a wide range of stencil techniques, printing processes, and inks in screenprinting, applying both hand and photographic techniques.

**ART 3763 RELIEF PRINTING 3 CR. (2 LEC., 4 STU.)**

Prerequisites: Art 2793 Introduction to Printmaking or consent of department head.

Presents a broad range of relief printing techniques, including single block images as well as multi-block and reduction color printing.

**ART 3773 FIGURE PAINTING 3 CR. (2 LEC., 4 STU.)**

Prerequisite: ART 2773 Introduction to Painting.

Painting from a live model using traditional and experimental approaches, proceeding through the semester from color sketches to resolved paintings.

**ART 3783 INTAGLIO 3 CR. (2 LEC., 4 STU.)**

Prerequisite: ART 2793 Introduction to Printmaking.

Presents a variety of techniques including soft ground, mezzotint, multi-plate color printing, and monotype processes.
ART 3793 LITHOGRAPHY  3 CR. (2 LEC., 4 STU.)
   Prerequisite: ART 2793 Introduction to
   Printmaking.
   Encompasses a variety of media and techniques
   including crayon, tusche, autographic ink, transfer
   processes, and color lithography.

ART 3863 HISTORY OF
GRAPHIC DESIGN  3 CR. (3 LEC.)
   Prerequisite: Sophomore standing or consent of
   instructor.
   Designed to help students develop an intelligent
   appreciation of design and art movements that have
   affected graphic design from the invention of writing
   to the present.

ART 391V SPECIAL PROJECTS  1-3 CR. (IND. STU.)
   Prerequisites: six hours of upper level Studio Art
   courses and consent of the instructor.
   Focuses on creating a number of works that address
   form, content and subject matter in the style and
   medium of their choice. Produces a highly developed
   body of work with a coherent visual theme that
   promotes an individual approach to creating art.

ART 4203 MODERN
EUROPEAN ART  3 CR. (3 LEC.)
   Prerequisite: junior standing or consent of
   instructor.
   European Art from the late nineteenth century
   Realism and Impression to current trends in the
   early twenty-first century. Emphasis on the cultural,
   political, and social context of the works as well as
   the formal expressive qualities. Painting, sculpture,
   printmaking, photography, and architecture as well as
   multi-media and installation art are included.

ART 4953 STUDIO ART
CAPSTONE  3 CR. (IND. STU.)
   Prerequisites: senior standing and 12 hours or more
   of upper level Studio Art courses.
   An independent study course that concludes
   the B.A. in Studio Art. Requires a proposal, an
   artist statement that supports the artwork, an oral
   presentation, an exhibit and digital documentation of
   the work.

ATDI  Automotive and
Diesel

ATDI 1234
THEORY AND MAINTENANCE  4 CR. (2 LEC., 4 LAB)
   Beginning course for all automotive and diesel
   students with major emphasis on design, operation and
   servicing of vehicles and related systems.

ATDI 1334
BRAKING SYSTEMS  4 CR. (2 LEC., 4 LAB)
   Prerequisite or corequisite: ATDI 1234 Theory and
   Maintenance.
   A study of the functioning of braking systems.
   Students gain experience working with all types of
   braking systems to include drum type, four-wheel disc,
   anti-lock brakes, S-cam service brakes, and air brake
   systems.

ATDI 1354 SUSPENSION
AND STEERING  4 CR. (2 LEC., 4 LAB)
   Prerequisite or corequisite: ATDI 1234 Theory and
   Maintenance.
   A study of the functioning of conventional
   suspension, air ride suspension, and steering systems.
   Students gain experience working with alignment
   equipment, balancing wheels and adjusting steering
   systems.

ATDI 1434
ELECTRICAL SYSTEMS I  4 CR. (2 LEC., 4 LAB)
   Prerequisite or corequisite: ATDI 1234 Theory and
   Maintenance.
   Introduction and practical application to electrical
   systems. Students will service batteries, cranking
   motors, generators, and regulators. Students learn
   trouble shooting techniques using wiring diagrams and
   schematics.

ATDI 1584 HEATING AND AIR
CONDITIONING SYSTEMS I  4 CR. (2 LEC., 4 LAB)
   Prerequisite or corequisite: ATDI 1434 Electrical
   Systems I.
   A study of automotive and diesel air-conditioning
   systems, including valves in receiver systems. Venturi
   systems and a broad look at automotive and diesel air-
   conditioning compressors are included in this course.
ATDI 2434  
**ELECTRICAL SYSTEMS II**  4 CR. (2 LEC., 4 LAB)  
Prerequisite: ATDI 1434 Electrical Systems I.  
Thorough study and practical application to electrical systems. Students will learn advanced trouble shooting techniques using wiring diagrams and schematics. Students will diagnose lighting systems, gauges and warning devices, and various vehicle accessories.

### AUTO Automotive Technology

**AUTO 1284**  
**AUTOMOTIVE ENGINES**  4 CR. (2 LEC., 4 LAB)  
Prerequisite or corequisite: ATDI 1234 Theory and Maintenance.  
Emphasis is on design and rebuilding of automotive engines. Modern vehicles and equipment are used for an actual shop experience, including servicing techniques and costs involved in engine rebuilding.

**AUTO 1384**  
**INTRODUCTION TO MANUAL TRANSMISSIONS AND DRIVE TRAINS**  4 CR. (2 LEC., 4 LAB)  
Prerequisite or corequisite: ATDI 1234 Theory and Maintenance.  
A study of the function and adaptation of transmissions. Various types of power trains are studied in both rear-wheel and front-wheel vehicles. Students are familiarized with the operation and repair of clutches, manual transmissions, trans axles, differentials and drivelines.

**AUTO 1484**  
**EMISSION CONTROL SYSTEMS I**  4 CR. (2 LEC., 4 LAB)  
Prerequisite or corequisite: ATDI 1434 Electrical Systems I.  
Study of the basic functioning, servicing and testing of the emissions process and how the process affects different automotive systems.

**AUTO 1534**  
**AUTOMATIC TRANSMISSIONS**  4 CR. (2 LEC., 4 LAB)  
Prerequisite or corequisite: ATDI 1234 Theory and Maintenance.  
The theory, operation, and servicing of various types of automatic transmissions are covered. Students disassemble, repair, rebuild, reassemble, test, and adjust automatic transmissions.

**AUTO 190V**  
**AUTO MECHANICS: WORK-BASED LEARNING**  1-4 CR. (VARIABLE)  
Prerequisite: consent of instructor or dean.  
Work-based learning is a comprehensive treatment of relevant work experience related to student’s major field of study. Includes cooperative education, apprenticeships, extended job shadowing, internships, and other systematic, planned work experience. Academic faculty and local employers work with students to ensure relationship between instruction and work experience. The faculty sponsor approves the work experience and the number of hours of credit to be earned. May be repeated for a total of eight hours.

**AUTO 2484**  
**EMISSION CONTROL SYSTEMS II**  4 CR. (2 LEC., 4 LAB)  
Prerequisite: AUTO 1484 Emission Control Systems I.  
Study the advanced functioning, servicing and testing of atmospheric-control devices, including electronic fuel delivery systems, evaporative emissions systems, and controlled-combustion systems.

**AUTO 290V**  
**AUTOMOTIVE: SPECIAL TOPICS**  1-5 CR. (VARIABLE)  
Prerequisite: consent of instructor.  
Designed to give special instruction for new and emerging topics in automotive technology not covered in the curriculum. Topics in these emerging technologies offered periodically based on the recognized needs of the field and the availability of the instruction. May be repeated for a total of five hours.

**AUTO 299V**  
**AUTOMOTIVE: SPECIAL PROJECTS**  1-3 CR. (VARIABLE)  
Prerequisite: consent of instructor.  
Designed for the advanced automotive student who has completed or is enrolled in all other appropriate automotive courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of six hours.
**BIOL  Biology**

**BIOL 1151 BIOLOGICAL SCIENCE LABORATORY**  
1 CR. (2 LAB)  
Prerequisite or corequisite: BIOL 1153 Biological Science.  
Complements BIOL 1153 Biological Science. Laboratory exercises are integrated with lecture topics and stress scientific methodology and thinking. Participation in animal dissections may be required.

**BIOL 1153 BIOLOGICAL SCIENCE**  
3 CR. (3 LEC.)  
General principles of biology and their relationship to society. A scientific focus is used to examine the maintenance of living systems and the interrelationship among living systems, and the biosphere. Topics include ecology, genetics, evolution, the diversity and unity of life, molecular and cellular biology. (ACTS: BIOL 1004; must complete BIOL 1153/1151)

**BIOL 1154H BIOLOGICAL SCIENCE (HONORS)**  
4 CR. (3 LEC., 2 LAB)  
Prerequisite: acceptance into honors program.  
Students acquire a broad understanding of biological and ecological principles and the methods of science, which help them make personal and social decisions involving biology. Content includes scientific methodology, organisms and ecology, evolution and genetics, the origin and diversity of life, cell organization and energetics, and the organ systems of higher animals.

**BIOL 1431 BASIC ANATOMY AND PHYSIOLOGY LABORATORY**  
1 CR. (2 LAB)  
Prerequisite or corequisite: BIOL 1433 Basic Anatomy and Physiology or consent of instructor.  
Complements BIOL 1433 Basic Anatomy and Physiology. Includes the hierarchy of body structure and organization and basic biological chemistry. The structures and functions of each body system are studied, with emphasis on the contribution each makes to homeostasis.

**BIOL 1433 BASIC ANATOMY AND PHYSIOLOGY**  
3 CR. (3 LEC)  
Prerequisite or corequisite: BIOL 1431 Basic Anatomy and Physiology Laboratory or consent of instructor.  
Fundamentals of human anatomy and physiology. Includes hierarchy of body structure and organization and basic biological chemistry. Structures and functions of each body system are studied, with emphasis on contribution each makes to homeostasis.

**BIOL 1452 BASIC MICROBIOLOGY**  
2 CR. (2 LEC.)  
Fundamental principles of microbiology, intended for students in the environmental technology and surgical technology certificate programs.

**BIOL 1461 MICROBIOLOGY AND IMMUNOLOGY LABORATORY**  
1 CR. (2 LAB)  
Prerequisite or corequisite: BIOL 1463 Microbiology and Immunology.  
Basic structure and physiology of the major groups of microorganisms that have medical importance, the microscope, staining techniques, uses of various microbiological culture media, and antibiotic sensitivity testing.

**BIOL 1463 MICROBIOLOGY AND IMMUNOLOGY**  
3 CR. (3 LEC.)  
Prerequisite or corequisite: CHEM 1303 Chemical Principles or higher level chemistry.  
An introductory course in the principles and applications of microbiology and immunology in the health care environment. (ACTS: BIOL 2004; must complete BIOL 1463/1461)

**BIOL 1521 ANATOMY AND PHYSIOLOGY I LABORATORY**  
1 CR. (2 LAB)  
Prerequisite or corequisite: CHEM 1303 Chemical Principles or higher-level chemistry course and BIOL 1523 Anatomy and Physiology I or consent of instructor.  
Complements Anatomy and Physiology I (BIOL 1523). Includes general body organization and function, cellular structure and function, and structure and function of the reproductive, skeletal, muscular, and digestive systems and metabolism.

**BIOL 1523 ANATOMY AND PHYSIOLOGY I**  
3 CR. (3 LEC.)  
Prerequisite or corequisite: CHEM 1303 Chemical Principles or higher-level chemistry course and BIOL 1521 Anatomy and Physiology I/Lab or consent of instructor.  
A standard first course in human anatomy and physiology. Includes general body organization and function, cellular structure and function, and structure and function of the reproductive, skeletal, muscular, and digestive systems and metabolism. (ACTS: BIOL 2404; must complete BIOL 1523/1521)
BIOL 1531 ANATOMY AND PHYSIOLOGY II LABORATORY 1 CR. (2 LAB)
Prerequisites: BIOL 1523/1521 Anatomy and Physiology I/Lab or consent of instructor.
Prerequisite or corequisite: BIOL 1533 Anatomy and Physiology II or consent of instructor.
Complements Anatomy and Physiology II (BIOL 1533); is a continuation of BIOL 1523 and BIOL 1521. A study of the nervous, sensory, endocrine, circulatory, respiratory, and urinary systems; fluid and electrolyte balance; and acid base balance.

BIOL 1533 ANATOMY AND PHYSIOLOGY II 3 CR. (3 LEC.)
Prerequisite: BIOL 1523 Anatomy and Physiology I and BIOL 1521 Anatomy and Physiology I Laboratory or consent of instructor.
Prerequisite or corequisite: BIOL 1531 Anatomy and Physiology II Laboratory or consent of instructor.
Continuation of BIOL 1523 and BIOL 1521; the nervous, sensory, endocrine, circulatory, respiratory, and urinary systems; fluid and electrolyte balance; and acid base balance. (ACTS: BIOL 2414; must complete BIOL 1533/1531)

BIOL 2003 INTRODUCTION TO CELL BIOLOGY 3 CR. (3 LEC.)
Prerequisite: MATH 1403 College Algebra or higher MATH, or ACT Math score of 23 or higher.
Study of the general principles of biology. The focus is on natural laws, the maintenance of living systems, and evolutionary concepts central to biology. Topics include cellular structure and function, genetics, evolution, and molecular and cellular biology. Course intended for science majors.

BIOL 2201 HUMAN ANATOMY LABORATORY 1 CR. (3 LAB)
Prerequisite: BIOL 2003 Introduction to Cell Biology.
Prerequisite or corequisite: BIOL 2203 Human Anatomy.
Study of microscopic and gross anatomical structures of the major human organ systems. Dissections are required. Course intended for science majors.

BIOL 2203 HUMAN ANATOMY 3 CR. (3 LEC.)
Prerequisite: BIOL 2003 Introduction to Cell Biology.
Prerequisite or corequisite: BIOL 2201 Human Anatomy Laboratory.
Study of the microscopic and gross anatomical structures of the major human organ systems. Course intended for science majors.

BIOL 2301 GENERAL BOTANY LABORATORY 1 CR. (3 LAB)
Prerequisite: BIOL 1153/1151 Biological Science/Lab or BIOL 2003 Introduction to Cell Biology.
Prerequisite or corequisite: BIOL 2303 General Botany.
A survey of plant anatomy, physiology, morphology and taxonomy.

BIOL 2303 GENERAL BOTANY 3 CR. (3 LEC.)
Prerequisite: BIOL 1153/1151 Biological Science/Lab or BIOL 2003 Introduction to Cell Biology.
Prerequisite or corequisite: BIOL 2301 General Botany Laboratory.
Molecular, cellular and physiological aspects of botany, plant metabolic processes, and plant ecology are presented. The plant phyla are surveyed from an evolutionary perspective. (ACTS: BIOL 1034; must complete BIOL 2303/2301)

BIOL 233V FIELD BIOLOGY 1-4 CR. (VARIABLE)
Prerequisite: BIOL 1153/1151 Biological Science/Lab or BIOL 2003 Introduction to Cell Biology and consent of instructor.
Introduction to the learning of biological concepts in a field situation. Students develop an understanding of the fundamental components of a specific ecosystem and consider the major factors required to sustain a stable ecosystem. Required activities include enumeration of ecosystem characteristics, recording of field data, learning field techniques appropriate to the field experience, and field analysis of observations. May be repeated for a total of four hours.

BIOL 2501 GENERAL MICROBIOLOGY LABORATORY 1 CR. (3 LAB)
Prerequisite or corequisite: BIOL 2503 General Microbiology.
A study of the characteristics of the major groups of microorganisms. It includes isolation, identification, and detection methods commonly utilized in industrial and medical settings.

BIOL 2503 GENERAL MICROBIOLOGY 3 CR. (3 LEC.)
Prerequisite: CHEM 1303/1301 Chemistry Principles/Lab or CHEM 1403/1401 College Chemistry I/Lab.
A study of the characteristics of the major groups of microorganisms including bacterial genetics, metabolism, practical aspects of microbiology such as manufacturing processes and biosynthesis of compounds for human use.

**Biol 2701**
**General Zoology Laboratory** 1 CR. (3 LAB)
Prerequisite: BIOL 1153/1151 Biological Science/Lab or BIOL 2303 Introduction to Cell Biology.
Prerequisite or corequisite: BIOL 2703 General Zoology.
Covers the classification, morphology, and major biological features of animals.

**Biol 2703**
**General Zoology** 3 CR. (3 LEC.)
Prerequisite: BIOL 1153/1151 Biological Science/Lab or BIOL 2003 Introduction to Cell Biology.
Prerequisite or corequisite: BIOL 2701 General Zoology Laboratory or BIOL 2003 Introduction to Cell Biology.
Comparative study of the classification, phylogeny, natural history, and ecology of animals. Includes a survey of the major animal phyla, their evolutionary relationships, and main biological features, and strategies for survival. (ACTS: BIOL 1054: must complete BIOL 2703/2701.

**Biol 3204 Conservation and Environmental Science** 4 CR. (3 LEC., 3 LAB)
Prerequisites: BIOL 2303/2301 General Botany/Lab or BIOL 2503/2501 General Microbiology/Lab or BIOL 2703/2701 General Zoology/Lab, CHEM 1303/1301 Chemical Principles/Lab or CHEM 1403/1401 College Chemistry I/Lab, and STAT 2503 Probability and Statistics.
Examines a variety of biological, chemical, and radioactive pollution problems plaguing the modern world. Detrimental effects of pollution on delicate ecosystems are studied intensely. Proper safety precautions and regulations needed to properly handle hazardous materials will be critiqued. Students are exposed to bioremediation and other cleanup measures being implemented today, along with a review of relevant case studies.

**Biol 3401 Ecology Laboratory** 1 CR. (3 LAB)
Prerequisite or corequisite: BIOL 3403 Ecology.
Field and lab exercises on a variety of topics dealing with distribution and abundance of organisms, and with the interactions among organisms and their environment.

**Biol 3403 Ecology** 3 CR. (3 LEC.)
Prerequisites: STAT 2503 Probability and Statistics and one of the following: BIOL 2303/2301 General Botany/Lab or BIOL 2503/2501 General Microbiology/Lab or BIOL 2703/2701 General Zoology/Lab.
Prerequisite or corequisite: BIOL 3401 Ecology Laboratory.
Broad overview of interactions between organisms and their environment, and the interactions between various organisms. Special emphasis on how humans affect populations, communities, and the biosphere.

**Biol 3503 Cultural and Economic Botany** 3 CR. (3 LEC.)
Prerequisite: BIOL 2303/2301 General Botany/Lab or consent of instructor.
An introduction to the important uses of plants throughout human history and in the current global economy. Topics include economic, medical, agricultural, ethnographic and herbal uses of diverse groups of plants across various societies. Significant focus will be placed on the effects of humans on the modification of plants through selection and culture practices as well as the effects of plants on the development of human social structure.

**Biol 3504 Field Botany** 4 CR. (3 LEC., 3 LAB)
Prerequisite: BIOL 2303/2301 General Botany/Lab.
Study of the field characteristics and sight identification of the regional flora.

**Biol 3603 Vertebrate Zoology** 3 CR. (3 LEC.)
Prerequisites: BIOL 2703/2701 General Zoology/Lab.
Provides a broad and basic background of the biology of vertebrate animals and explains how vertebrates function, evolve, and interact with each other. The course includes a comparative overview of the origins, phylogeny, and major morphological and physiological adaptations of fishes, amphibians, reptiles, birds, and mammals. Special emphasis is placed on regional forms.

**Biol 3614 Comparative Vertebrate Morphology** 4 CR. (3 LEC., 3 LAB)
Prerequisites: BIOL 2703/2701 General Zoology/Lab.
An integrated comparative study of vertebrate structure, development, and function that illustrates
the evolution of vertebrate diversity. A synthesis of the embryological development, the gross anatomy, and the histology of selected forms. Dissections are required.

BIOL 3704
INVERTEBRATE ZOOLOGY 4 CR (3 LEC., 3 LAB)
Prerequisites: BIOL 2703/2701 General Zoology/Lab and ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Survey of major invertebrate phyla. Introduction to morphology, physiology, behavior, and ecology of major invertebrate groups as they relate to phylogenetic relationships, and adaptations for specific habitats and lifestyles.

BIOL 3801 GENETICS LABORATORY 1 CR. (3 LAB)
Prerequisite or corequisite: BIOL 3803 Genetics. Heredity and the patterns of inheritance will be studied in detail including data collection and analysis of experimental crosses. DNA isolation and analysis using modern Recombinant DNA technology and Polymerase Chain Reaction (PCR) will be performed and data will be collected and analyzed. Recombinant DNA, transcription, and translation will be analyzed at the molecular level.

BIOL 3803 GENETICS 3 CR. (3 LEC.)
Prerequisites: BIOL 2003 Introduction to Cell Biology and CHEM 1403/1401 College Chemistry I/Lab and STAT 2503 Probability and Statistics I or higher STAT, or MATH equivalent to ACT mathematics score of 23 or higher. Prerequisite or corequisite: BIOL 3801 Genetics Laboratory. Replication, transcription and translation are studied in detail at the molecular level. Differences between prokaryotes and eukaryotes are studied in how they express genetic traits. Heredity will be studied in detail including genetic defects, oncogenes and gene therapy. Recombinant DNA technology is examined thoroughly to develop an understanding of restriction enzymes and gel electrophoresis.

BIOL 3814
ANIMAL PHYSIOLOGY 4 CR. (3 LEC., 3 LAB)
Prerequisites: BIOL 2703/2701 General Zoology/Lab.
An introduction to animal structure and function. Basic mechanisms of physiology related to major systems will be covered including neurobiology, endocrinology, movement, circulation, gas exchange, digestion, and ionic and osmotic balance. A comparative approach emphasizing how physiological differences among animal species have evolved based upon the need for the animal to adapt to the environment.

BIOL 3824
PLANT PHYSIOLOGY 4 CR. (3 LEC., 3 LAB)
Prerequisites: BIOL 2303/2301 General Botany/Lab.
Physical and biochemical processes of plant functions, including water relations, photosynthesis, and growth and development.

BIOL 3903 BACTERIAL PHYSIOLOGY AND METABOLISM 3 CR. (3 LEC.)
Prerequisites: BIOL 2503/2501 General Microbiology/Lab and CHEM 2703/2701 Organic Chemistry I/Lab.
A molecular study of the composition of prokaryotic cells, the metabolic chemistry of bacteria with emphasis on the aerobic and anaerobic energy yielding reactions, mechanisms of enzyme activity in bacterial physiology, and genetic control of bacterial processes.

BIOL 4001 SEMINAR IN BIOLOGY 1 CR. (1 PART.)
Prerequisites: junior standing and BIOL 3403/3401 Ecology/Lab or BIOL 3803/3801 Genetics/Lab. Exposes students to the details of scientific communication methods and develops their abilities to acquire, organize, assimilate, and present scientific information. Examination of published information pertaining to biological questions and presentation of the findings to biology department faculty members is required. Students may continue with a second semester in which they will undertake an inquiry-based research project and present their findings to the faculty. May be repeated for a total of two hours.

BIOL 400V UNDERGRADUATE RESEARCH IN BIOLOGY 1-3 CR. (VARIABLE)
Prerequisite: Biology major, completion of at least 12 hours Biology, junior standing and consent of instructor.
A course that covers the scientific method by giving practical exposure to hypothesis testing, experimental design, data collection and analysis. Students are required to do a department-wide presentation of their findings at the end of the term. May be repeated when topics differ for a total of six hours.
BIOL 4103 SCIENCE TEACHING METHODS 3 CR. (2 LEC., 3 LAB)
Prerequisite: Admission to teacher education program.
Corequisite: EDUC 4211 Practicum II or consent of instructor.
Designed to give the pre-service science teacher opportunities to reflect upon and design curricula for the classroom. New methods of teaching science will be explored and modeled throughout the course, and the creation of laboratory exercises is emphasized.

BIOL 4203 PATHOGENIC MICROBIOLOGY 3 CR (3 LEC.)
Prerequisite: BIOL 2503/2501 General Microbiology/Lab.
A study of the morphology, physiology, and immunogenicity of disease-causing bacteria, viruses, and eukaryotic parasites. Additional topics will include methods of isolation, identification and control of pathogens and disease.

BIOL 4213 VIROLOGY 3 CR (3 LEC.)
Prerequisite: BIOL 2503/2501 General Microbiology/Lab.
A study of the representative bacterial, animal, and plant viruses.

BIOL 4223 FOOD MICROBIOLOGY 3 CR (3 LEC.)
Prerequisite: BIOL 2503/2501 General Microbiology/Lab.
The role of microorganisms in the preservation, spoilage, poisoning of food products, and their role in the manufacture of products of agricultural origin.

BIOL 4253 ZOOGEOGRAPHY 3 CR (3 LEC.)
Prerequisite: BIOL 3403/3401 Ecology/Lab.
An examination of the spatial patterns of biodiversity based on the effects of historical geology, climate, topography, evolution, and biological interactions.

BIOL 4263 WILDLIFE CONSERVATION 3 CR (3 LEC.)
Prerequisite: BIOL 3403/3401 Ecology/Lab.
Applies ecological principles to conservation of wildlife and natural habitats. Focus is on case studies with particular attention to North American flora and fauna.

BIOL 4274 DENDROLOGY 4 CR (3 LEC., 3 LAB)
Prerequisites: BIOL 2303/2301 General Botany/Lab.
Classification, identification, and characteristics of important forest trees of the United States, stressing native species common to Arkansas and Oklahoma.

BIOL 4284 FRESHWATER ECOLOGY 4 CR. (3 LEC., 3 LAB)
Prerequisites: junior standing and one of the following: BIOL 2203/2201 Human Anatomy/Lab, BIOL 2303/2301 General Botany/Lab, BIOL 2503/2501 General Microbiology/Lab, or BIOL 2703/2701 General Zoology/Lab.
The biological, chemical, and physical characteristics of freshwater habitats.

BIOL 420V SPECIAL TOPICS IN BIOLOGY 1-4 CR. (VARIABLE)
Prerequisites: junior standing and consent of instructor.
Current, advanced topics in biology are explored through lecture and/or laboratory work. Topics are selected by faculty members according to their areas of expertise and student interest. May be repeated when topics vary for a total of eight hours.

BIOL 4403 EVOLUTIONARY BIOLOGY 3 CR. (3 LEC.)
Prerequisite: BIOL 3803/3801 Genetics/Lab.
Introduction to principles of evolution. Examines the history of the development of evolutionary theory and the mechanisms of evolutionary change. Fundamental concepts of evolutionary genetics, adaptation and natural selection, the origins of biological diversity, and macroevolution are included.

BIOL 4504 ICHTHYOLOGY 4 CR. (3 LEC., 3 LAB)
Prerequisite: BIOL 2703/2701 General Zoology/Lab or consent of the instructor.
Provides a broad overview of the biology of fishes. Primary emphasis on morphological and physiological adaptations, fish diversity and systematics, behavior, zoogeography, and ecology. Laboratory topics include morphology, taxonomy and identification, field collection, and natural history of fishes.

BIOL 4604 GENERAL PHYSIOLOGY 4 CR. (3 LEC., 3 LAB)
Prerequisites: BIOL 3803/3801 Genetics/Lab and CHEM 2404 Fundamentals of Organic and Biochemistry or CHEM 2703/2701 Organic Chemistry I/Lab.
Explores the homeostatic mechanisms in both animals and plants and seeks to answer how organisms adapt to environmental stresses in order to survive. Looks at commonalities of physiological regulation among all living organisms. Relationships of structure
to function are explored. Readings include research literature as well as textbook materials. The laboratory focuses on experimental design, data collection, analysis, and drawing conclusions in physiology experiments.

**Biol 467V Internship in Biology**

**CR. 1-3 (Variable)**
Prerequisites: junior standing and consent of instructor.

Offers experience in student's major field. Student is supervised by a science faculty member and liaison from the field experience site. Emphasizes applications of science knowledge and skills and career development strategies and techniques. May be repeated for a total of three hours.

**Biol 4753 Mammalogy**

**3 CR. (3 LEC.)**
Prerequisites: Biol 3403/3401 Ecology/Lab.

The adaptations, behavior, ecology, and conservation of mammals.

**Biol 4801 Cell and Molecular Biology Laboratory**

**1 CR. (3 LAB)**
Prerequisite or corequisite: Biol 4803 Cell and Molecular Biology.

Exploration of processes used in experimental cell and molecular biology including cell transformation, gene cloning and organelle isolation.

**Biol 4803 Cell and Molecular Biology**

**3 CR. (3 LEC.)**
Prerequisite: Biol 3803/3801 Genetics/Lab and Chem 2703/2701 Organic Chemistry I/Lab.

Prerequisite or corequisite: Biol 4801 Cell and Molecular Biology Laboratory.

An exploration of the molecular biological details involved in prokaryotic and eukaryotic cellular regulation.

**Biol 4854 Ornithology**

**4 CR. (3 LEC., 3 LAB)**
Prerequisite: 12 hours of Biology including Biol 2003 Introduction to Cell Biology.

Covers the taxonomy, morphology, physiology, behavior, ecology, and conservation of birds, with special emphasis on field identification of birds of Arkansas. Laboratory will primarily entail field work.

**Biol 4904 Histology**

**4 CR (3 LEC., 3 LAB)**
Prerequisite: junior standing.

Histology presents the microscopic anatomy that comprises the structural basis of normal anatomy and physiology. Such knowledge is essential for understanding how form relates to function in the mammalian body. Students are expected to identify the specialized cells, tissues, and organs in order to understand the structural basis of their function. Emphasis is placed on microscopic study conducted in small groups in laboratories.

**Biol 4913 Animal Behavior**

**3 CR (3 LEC.)**
Prerequisites: Biol 2703/2701 General Zoology/Lab or PsyC 2623 Research Methods in Psychology, or consent of instructor.

An examination of the principles of animal behavior from an explicitly evolutionary perspective. Topics will include communication, foraging, mate choice, and parental care, among others.

**Biol 4914 Developmental Biology**

**4 CR (3 LEC., 3 LAB)**
Prerequisites: Biol 3803/3801 Genetics/Lab.

The study of the progression through time and space from a single cell, the fertilized egg, to a complex multicellular organism. Explores the processes of morphogenesis, differentiation, pattern formation, growth, and reproduction at the molecular, cellular, and organismal levels to provide a current overview of development in a wide variety of organisms.

**Biol 4923 Immunology**

**3 CR (3 LEC.)**
Prerequisites: Biol 3803/3801 Genetics/Lab.

Fundamental mechanisms of the immune system with applications in basic research and medicine. Topics include the mechanisms of induction, regulation, and expression of the cellular and humoral immune responses, immunoechemistry, antigen-antibody reactions, immunogenetics, immunopathologies, and immunodeficiencies.

**BSAT Animation Technology**

**BSAT 3003 GIS Analysis**

**3 CR. (2 LEC., 2 LAB)**
Prerequisite: CADD 2204 Land Surveying and Information Systems or consent of department head.

Introduces problem-solving aspects of GIS through spatial analysis. Concepts developed include geographic patterns and relationships, spatial measurement and geostatistics. Provides hands-on experience with various spatial analysis techniques.
BSAT 3013  
**3D SPATIAL ANALYSIS**  
3 CR. (2 LEC., 2 LAB)  
Prerequisite: CADD 2204 Land Surveying and Information Systems or consent of department head.  
Prerequisite or corequisite: BSAT 3003 GIS Analysis and BSAT 3084 3D Advanced Concepts.  
Focuses primarily on the representation of data and spatial areas in three dimensions that can then be graphically analyzed. Projects will include problems from the field of civil engineering, statistics, mapping, environmental, and manufacturing.

BSAT 3014  
**MODELING PROCESSES**  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: CADD 2894 Parametric Modeling or consent of department head.  
Prerequisite or corequisite: BSAT 3084 3D Advanced Concepts.  
Concepts, commands, and techniques used in creating models with 3D printing and computer numerical control (CNC) equipment. Various materials will be used including ABS plastics, styrofoam, wood and aluminum.

BSAT 3023  
**DIGITAL PRODUCTION TECHNIQUES**  
3 CR. (2 LEC., 2 LAB)  
Prerequisite: BSAT 3084 3D Advanced Concepts.  
Focuses on the use of digital technologies and strategies for composing video productions, simulations, and animations. Post production techniques, story boarding, and composition will be covered.

BSAT 3033  
**MOTION FOR APPLIED ANIMATION**  
3 CR. (2 LEC., 2 LAB)  
Prerequisite: BSAT 3084 3D Advanced Concepts.  
Focuses on the creation of natural appearing motion for animated characters. Subjects include motion, motion capture systems and procedures for representing motion in an animation.

BSAT 3043  
**LIGHTING AND RENDERING**  
3 CR. (2 LEC., 2 LAB)  
Prerequisites: BSAT 3084 3D Advanced Concepts and BSAT 3033 Motion for Applied Animation.  
A complete review of computer generated lighting options. Students will prepare an animation showing unique lighting techniques.

BSAT 3053  
**RECORDING METHODS FOR HISTORIC STRUCTURES**  
3 CR. (2 LEC., 2 LAB)  
Prerequisite: CADD 2654 Architectural CAD Applications or consent of department head. Instruction in methods and techniques of architectural, engineering, and industrial documentation, including the preparation of drawings and photographs to general requirements of documenting historical structures.

BSAT 3084  
**3D ADVANCED CONCEPTS**  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: CADD 2644 3D Visualization.  
Prerequisite or corequisite: BSAT 3033 Motion for Applied Animation.  
Intensive application of advanced 3D graphic software packages emphasizing competency in areas of concentration – architecture, mechanical design, digital design, and civil applications.

BSAT 3123  
**GEODATABASE DESIGN**  
3 CR. (2 LEC., 2 LAB)  
Prerequisites: BSAT 3003 GIS Analysis and ITC 2513 Data Modeling.  
Explores the spatial data framework that supports modern GIS mapping and analysis. Discussion focuses on spatial data modeling as an extension of conventional relational database design to include design principles, workflow and documentation of the geodatabase design. Provides hands-on experience with geodatabase design.

BSAT 3223  
**RASTER ANALYSIS AND REMOTE SENSING**  
3 CR. (2 LEC., 2 LAB)  
Prerequisite: BSAT 3123 Geodatabase Design.  
Examines the use of remotely sensed data in GIS analysis and presentation. Discussions focus on the electromagnetic spectrum and its characteristics, remote sensing platforms, sources of data and data interpretation. Provides hands-on experience with remotely sensed data, raster analysis and presentation.

BSAT 3774  
**ADVANCED CAD CUSTOMIZATION**  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: MATH 1453 Trigonometry or MATH 1715 Precalculus Mathematics.  
Prerequisite or corequisite: ITP 3233 Visual Basic. Provides in-depth understanding of graphic software while learning to configure basic shape files, complex line types, hatch patterns, along with CAD office configurations and plotting styles.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
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<tbody>
<tr>
<td>BSAT 3893</td>
<td>COMPUTER COLOR APPLICATIONS</td>
<td>3 CR</td>
<td>2 Lec.</td>
<td>2 Lab</td>
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<td><strong>Prerequisite:</strong> CADD 2624 Photoshop Applications.</td>
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<td><strong>Prerequisite or corequisite:</strong> BSAT 3084 3D Advanced Concepts.</td>
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<td></td>
<td>Knowledge and understanding of the systems of computer color application as it applies to digital drawings and renderings.</td>
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<td>BSAT 3993</td>
<td>APPLYING CAD TECHNOLOGIES</td>
<td>3 CR</td>
<td>2 Lec.</td>
<td>2 Lab</td>
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<td><strong>Prerequisite:</strong> Consent of department head.</td>
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<td><strong>Prerequisite or corequisite:</strong> BSAT 3084 3D Advanced Concepts.</td>
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<td></td>
<td>Basics of CAD training techniques includes software and equipment especially beneficial to the instruction of CAD.</td>
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<td>BSAT 4003</td>
<td>ENGINEERING AND ARCHITECTURE APPLICATIONS</td>
<td>3 CR</td>
<td>2 Lec.</td>
<td>2 Lab</td>
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<td></td>
<td><strong>Prerequisite:</strong> BSAT 3053 Recording Methods for Historic Structures or consent of department head.</td>
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<td></td>
<td><strong>Prerequisites or corequisites:</strong> BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.</td>
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<td></td>
<td>3D architectural and engineering software will be utilized to create proper environments for animations. Recreation of bridge and building disasters as well as walk-through animations of historic recreations and modern architecture will be included.</td>
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<tr>
<td>BSAT 4013</td>
<td>SCIENCE AND MEDICAL APPLICATIONS</td>
<td>3 CR</td>
<td>2 Lec.</td>
<td>2 Lab</td>
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<td><strong>Prerequisite:</strong> Senior standing in BSAT program or consent of department head.</td>
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<td><strong>Prerequisites or corequisites:</strong> BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.</td>
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<td></td>
<td>3D software programs will be used to create and animate videos associated with science and medical applications. Advanced modeling techniques used for building organic and structured surface objects and environments will be explored.</td>
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<td>BSAT 4023</td>
<td>MANUFACTURING AND ROBOTICS APPLICATIONS</td>
<td>3 CR</td>
<td>2 Lec.</td>
<td>2 Lab</td>
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<td><strong>Prerequisite:</strong> Senior standing in BSAT program or consent of department head, and BSAT 3014 Modeling Processes.</td>
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<td></td>
<td>Prerequisites or corequisites: BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.</td>
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<td>3D software programs will be used to create and animate videos associated with mechanical objects and manufacturing/robotics process or training films. Advanced modeling techniques used for building surface objects and environments will be explored.</td>
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<td>BSAT 490V</td>
<td>ADVANCED SPECIAL PROJECTS</td>
<td>2-4 CR.</td>
<td>Variable</td>
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<td><strong>Prerequisite:</strong> Senior standing in BSAT program or consent of department head.</td>
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<td><strong>Prerequisites or corequisites:</strong> BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.</td>
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<td>Topics and current issues requiring the integration of functional areas in animation will be addresses. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the department head. May be repeated for a total of eight hours.</td>
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<tr>
<td>BSAT 4044</td>
<td>SENIOR CAPSTONE PROJECT</td>
<td>4 CR</td>
<td>2 Lec.</td>
<td>4 Lab</td>
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<td><strong>Prerequisite:</strong> Senior standing in BSAT program or consent of department head.</td>
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<td>Assemble and refine an applied animation based upon projects completed during their junior and senior year. Focus will be on creativity and real-world application. All advanced animation skills will be required for the completion of the project.</td>
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**CADD Computer-Aided Drafting and Design**

**CADD 1001 CAD CONCEPTS AND APPLICATIONS** 1 CR. (2 LAB)

Introduction to the field of CADD and introduction to visualization skills, expectant professional behaviors, basic electronic portfolio creation, and elementary computer skills.

**CADD 1004 INTRODUCTION TO GEOSPATIAL INFORMATION SYSTEMS** 4 CR. (2 LEC., 4 LAB)

**Prerequisite:** Declared CADD Major or consent of instructor.

Basic knowledge of Geographic Information Systems (GIS) to include GIS applications, fundamentals of
GIS capabilities, electronic cartography, database development, and management perspectives for GIS.

CADD 1104 GPS MAPPING FUNDAMENTALS  
4 CR. (2 LEC., 4 LAB)  
Corequisite: Declared CADD Major or consent of instructor.  
Fundamental concepts of Global Positioning Systems (GPS) mapping equipment theory and use of the Trimble Mapping equipment. Laboratory work affords ample opportunity for the students, working in small groups, to practice with the Trimble equipment used in the field. The collected data will be imported into a GIS based software package.

CADD 1204 CIVIL DRAFTING  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: Engineering Graphics I (CADD 1234) or consent of instructor.  
The nature and theory of Civil Engineering and the means and methods used to design and develop Civil Engineering projects such as highways, bridges and subdivisions. Students demonstrate competencies by completing assigned projects.

CADD 1234 ENGINEERING GRAPHICS I  
4 CR. (2 LEC., 4 LAB)  
Drawing fundamentals, including orthographic projection, geometric construction, lettering, dimensioning, sectioning, auxiliaries, and sketching.

CADD 1284 ENGINEERING GRAPHICS II  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: CADD 2744 CAD-2D Design Level I.  
An extension of Engineering Graphics I, covers projection, representation of fasteners, electrical wiring and welding, surface development, geometric relationship of lines and planes, and construction of charts and graphs.

CADD 1302 GRAPHICS FOR ENGINEERS  
2 CR. (1 LEC., 2 LAB)  
Visualization of two-dimensional drawings and the three-dimensional objects that students describe. Introduction to industry standards for graphical representation of objects, 2D presentations, and 3D modeling, utilizing the commands resident in the AutoCAD software.

CADD 1894 ROBOTICS CONCEPTS  
4 CR. (2 LEC., 4 LAB)  
Provides students with hands-on experience in learning and exploring how robots are designed, constructed, and tested for authentic achievement of design goals.

CADD 190V CADD WORK-BASED LEARNING  
1-4 CR. (VARIABLE)  
Prerequisite: consent of instructor or dean.  
Work-based learning is a comprehensive treatment of relevant work experience related to the student’s major field of study. It includes cooperative education, apprenticeships, extended job shadowing, internships, and any other systematic, planned work experience. Academic faculty and local employers work together with students to ensure the relationship between classroom instruction and work experience. The work-based learning coordinator approves the work experience and the number of hours of credit to be earned. May be repeated for a total of eight hours.

CADD 2204 LAND SURVEYING AND INFORMATION SYSTEMS  
4 CR. (2 LEC., 4 LAB)  
Prerequisites: CADD 1004 Introduction to Geospatial Information Systems, CADD 1104 Global Positioning System Mapping Fundamentals, MATH 1453 Plane Trigonometry or consent of instructor.  
Discusses the history of the United States rectangular land system and its relationships with GIS. An in-depth discussion of land information system as a management tool for land records. A detailed examination of the principles of land subdivision, legal descriptions, transfer of property ownership, coordinate systems, projections, and datums. Of particular importance is the topic of cadastral mapping using GIS.

CADD 2333 FUNDAMENTALS OF TECHNICAL VISUAL COMMUNICATIONS  
3 CR. (2 LEC., 2 LAB)  
Prerequisites: consent of department head.  
The basics of videography designed for the novice. The fundamentals of shooting video, theory, and history used to produce a short training video.

CADD 2624 PHOTOSHOP APPLICATIONS  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: declared CADD major or consent of instructor.  
Extensive skill sets necessary to successfully use PhotoShop in architectural or digital design problems.
CADD 2634
ARCHITECTURAL MATERIALS 4 CR. (2 LEC., 4 LAB)
Prerequisite: CADD 1284 Engineering Graphics II.
Introduction to the concepts and common terminology used by the architectural industry. Information used for conventions, views, materials, details, and codes used by architects.

CADD 2644
3D VISUALIZATION 4 CR. (2 LEC., 4 LAB)
An in-depth study of the latest releases of 3D software. Students research a 3D topic and prepare a written and oral report on the latest 3D applications. Current market trends and availability reviewed.

CADD 2654 ARCHITECTURAL CAD APPLICATIONS 4 CR. (2 LEC., 4 LAB)
Prerequisite: CADD 2644 3D Visualization or consent of instructor.
An in-depth study of the latest release of architectural software. The student generates 3D working drawings with rendered scenes from any angle in real-time. Current market trends and job availability reviewed.

CADD 2664 DIGITAL DESIGN I – FOUNDATION 4 CR. (2 LEC., 4 LAB)
Prerequisite: declared CADD major or consent of instructor.
Introduction to software programs designed and specifically structured around the goals of artistic discovery and experimentation. Concentrates on line, composition, and narrative assignments – created with two- and three–dimensional graphics in combination with animation.

CADD 2674 DIGITAL LAYOUT I – FOUNDATION 4 CR. (2 LEC., 4 LAB)
Prerequisite: declared CADD major or consent of instructor.
A thorough overview of presentation graphics. Develop and organize information used for - publishing, - advertising, and a variety of print media. A series of problems based on the relationship between typography and imagery are assigned.

CADD 2684 DIGITAL DESIGN II – ADVANCED 4 CR. (2 LEC., 4 LAB)
Prerequisite: CADD 2664 Digital Design I.
Builds on Digital Design I. An advanced course with a heavy workload, the student is expected to produce a complete digital portfolio burned to CD-ROM.

CADD 2694 DIGITAL LAYOUT II – ADVANCED 4 CR. (2 LEC., 4 LAB)
Prerequisite: CADD 2674 Digital Layout I – Foundation.
Combines design techniques learned in Digital Layout I – Foundation and applies them in a semester-long, real-world project. An advanced course with a heavy workload, the student is expected to produce a finished - digital and/or - printed publication.

CADD 2744 CAD-2D DESIGN LEVEL I 4 CR. (2 LEC., 4 LAB)
Outside lab work may be required.
Corequisites: CADD 1234 Engineering Graphics I or consent of department head, and CADD 1001 CAD Concepts and Applications.
Introduction to CAD software and its uses for geometric construction, orthographic projection, section and auxiliary views, dimensioning, and drawing annotation. File management techniques such as opening, saving, and proper naming of drawings will be covered. Students will also learn how to create and use title blocks along with the importance of plotting drawings to specific scales.

CADD 2764 CAD-2D DESIGN LEVEL II 4 CR. (2 LEC., 4 LAB)
Outside lab work may be required.
Prerequisite: CADD 2744 CAD-2D Design Level I.
Prerequisite or corequisite: MATH 1403 College Algebra or MATH 1715 Pre-Calculus Mathematics.
Involves the use of several advanced CAD features such as productivity techniques, user coordinate systems, external references, advanced plotting, advanced grips, region modeling system variables, object filtering, and wildcards.

CADD 2834 MACHINE DRAWING AND DESIGN I 4 CR. (2 LEC., 4 LAB)
Prerequisites or corequisites: MATH 1453 Plane Trigonometry or MATH 1715 Pre-Calculus Mathematics, CADD 2764 CAD-2D Design Level II, or consent of instructor.
Preparation of advanced machine detail and
assembly drawings based on actual problems encountered in industry. Drawings are prepared applying machine finishes and consideration of appropriate manufacturing processes. Supplementary topics are stress analysis and scheduling of design and drafting projects in industry.

**CADD 2894**  
**PARAMETRIC MODELING 4 CR. (2 LEC., 4 LAB)**  
Prerequisite: CADD 2834 Machine Drawing and Design I or consent of instructor.  
Introduces the concepts, commands, and techniques of parametric modeling. Brings together tools used for part modeling, assembly modeling, and surface modeling.

**CADD 290V**  
**CADD: SPECIAL TOPICS 1-5 CR. (VARIABLE)**  
Prerequisite: consent of instructor.  
Special instruction for new and emerging topics in CADD that are not otherwise covered in the curriculum. Topics in these emerging technologies offered periodically, based on recognized needs of the field and availability of instruction. May be repeated for a total of eight hours.

**CADD 2944 ARCHITECTURAL INTERNSHIP 4 CR. (VARIABLE)**  
Prerequisite: consent of department head.  
Places the student in a working environment to gain actual on-the-job experience. The student will work at a local-area design studio, civil engineering or architecture firm with supervised employment and observation. The length of the internship will be at least 160 clock hours and will typically be completed during a fall, spring, or summer semester. The student should be highly motivated and demonstrate a high degree of professionalism.

**CADD 299V**  
**CADD: SPECIAL PROJECTS 1-3 CR. (VARIABLE)**  
Prerequisite: consent of department head.  
For the advanced CADD student who has completed or is enrolled in all other appropriate CADD courses. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of eight hours.

**CADD 2994**  
**ENGINEERING GRAPHICS III 4 CR. (2 LEC., 4 LAB)**  
Prerequisite: final semester of CADD degree or consent of department head.  
A variety of topics relating to current industry trends, i.e., electrical, mapping, structural, architectural, piping, commercial design, etc. Introduces various software packages currently being used in industry.

**CHED Coaching Education**

**CHED 2013 CARE AND PREVENTION OF ATHLETIC INJURIES 3 CR. (3 LEC.)**  
Provides the theory, principles, and skills used in the prevention, care, and rehabilitation of athletic injuries. Key topics of study include anatomy, evaluation, treatment, rehabilitation techniques, emergency procedures, and liability issues in athletics.

**CHED 2023 MOTOR DEVELOPMENT AND LEARNING 3 CR. (3 LEC.)**  
Emphasizes theories and task analysis focused on motor skill acquisition as well as the processes underlying skilled performance and how to apply the principles of performance and learning in coaching settings.

**CHED 3113 THEORY OF COACHING 3 CR. (3 LEC.)**  
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.  
Corequisite: one of the following: CHED 3121 Practicum/Coaching Football, CHED 3131 Practicum/Coaching Basketball, CHED 3141 Practicum/Coaching Baseball/Softball, CHED 3151 Practicum/Coaching Volleyball, CHED 3161 Practicum/Coaching Track, or CHED 3171 Practicum/Coaching Soccer  
An introduction to the coaching profession for those who coach sports at any level. Addresses the differences in levels of competitive sports, the personal roles that coaches should play, the professional roles expected, the organizational influences, and demands and influences of the media on coaching.
CHED 3121 PRACTICUM OF COACHING FOOTBALL 1 CR. (1 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Prerequisite or corequisite: CHED 3113 Theory of Coaching.
Emphasizes techniques particular to football including a study of basic offensive and defensive formations and patterns, training methods, strategy, and rules. Students are required to complete a 15 hour field experience scheduled outside of class meeting times.

CHED 3131 PRACTICUM OF COACHING BASKETBALL 1 CR. (1 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Prerequisite or corequisite: CHED 3113 Theory of Coaching.
Emphasizes techniques particular to basketball including a study of basic offensive and defensive formations and patterns, training methods, strategy, and rules. Students are required to complete a 15 hour field experience scheduled outside of class meeting times.

CHED 3141 PRACTICUM OF COACHING BASEBALL/SOFTBALL 1 CR. (1 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Prerequisite or corequisite: CHED 3113 Theory of Coaching.
Emphasizes techniques particular to baseball/softball including a study of basic offensive and defensive formations and patterns, training methods, strategy, and rules. Students are required to complete a 15 hour field experience scheduled outside of class meeting times.

CHED 3151 PRACTICUM OF COACHING VOLLEYBALL 1 CR. (1 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Prerequisite or corequisite: CHED 3113 Theory of Coaching.
Emphasizes techniques particular to volleyball including a study of basic offensive and defensive formations and patterns, training methods, strategy, and rules. Students are required to complete a 15 hour field experience scheduled outside of class meeting times.

CHED 3161 PRACTICUM OF COACHING TRACK 1 CR. (1 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Prerequisite or corequisite: CHED 3113 Theory of Coaching.
Emphasizes techniques particular to track including a study of training methods, strategy, and rules. Students are required to complete a 15 hour field experience scheduled outside of class meeting times.

CHED 3171 PRACTICUM OF COACHING SOCCER 1 CR. (1 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Prerequisite or corequisite: CHED 3113 Theory of Coaching.
Emphasizes techniques particular to coaching soccer including a study of training methods, strategy, and rules. Students are required to complete a 15 hour field experience scheduled outside of class meeting times.

CHED 3123 KINESIOLOGY 3 CR. (3 LEC.)
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Study of human anatomy with its adaptations to biomechanical principles. Includes an in-depth study of the skeletal, muscular, and nervous systems along with other key anatomical structures and functions.

**CHED 4113 ORGANIZATION AND ADMINISTRATION OF ATHLETICS 3 CR. (3 LEC.)**
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
Addresses techniques in organization and administration of athletic programs including marketing, finance, public relations, budgeting, philosophy, facility construction/utilization, and sports law.

**CHED 4123 EXERCISE PHYSIOLOGY 3 CR. (3 LEC.)**
Prerequisites: admission to the teacher education program or a valid initial or standard Arkansas teaching license, CHED 2013 Care and Prevention of Athletic Injuries, and CHED 2023 Motor Development and Learning.
A study of the current literature and research into the human body's function as it responds to physical activity. Emphasis is on the human mechanism, its structure, functions, and physiological mechanical functions.

**CHEM 1301 CHEMICAL PRINCIPLES LABORATORY 1 CR. (3 LAB)**
Prerequisite: MATH 1203 or higher level mathematics course or equivalent test score.
Corequisite: CHEM 1303 Chemical Principles.
Application of the fundamental principles of chemistry as well as the collection and analysis of experimental data needed to solve chemistry problems.

**CHEM 1303 CHEMICAL PRINCIPLES 3 CR. (3 LEC.)**
Prerequisite: MATH 1203 or higher level mathematics course or equivalent test score.
Covers the fundamental principles of chemistry as well as the mathematical manipulations required to solve chemistry problems. (ACTS: CHEM 1004; must have CHEM 1303/1301)

**CHEM 1401 COLLEGE CHEMISTRY I LABORATORY 1 CR. (3 LAB)**
Prerequisite or corequisite: CHEM 1403 College Chemistry I.
Investigative experience in basic chemistry necessary for advanced courses in science, to include the theoretical basis of atomic structure and bonding, stoichiometry, thermochemistry, and physical properties of matter.

**CHEM 1403 COLLEGE CHEMISTRY I 3 CR. (3 LEC.)**
Prerequisite: MATH 1403 College Algebra or higher-level math course; or exemption by placement; or CHEM 1303 Chemical Principles.
Prerequisite or corequisite: CHEM 1401 College Chemistry I Laboratory.
Basic chemical background necessary for advanced courses in science, to include the theoretical basis of atomic structure and bonding, stoichiometric calculations, classification of elements, thermochemistry, and physical properties of matter. CHEM 1303 and CHEM 1301 are highly recommended for students who have never taken a chemistry course. (ACTS: CHEM 1414; must have CHEM 1403/1401)

**CHEM 1411 COLLEGE CHEMISTRY II LABORATORY 1 CR. (3 LAB)**
Prerequisite or corequisite: CHEM 1413 College Chemistry II.
Investigative experience in basic chemistry, covering introductory organic chemistry, chemical equilibrium, thermodynamics, solubility equilibria, kinetics, acid-base theory, and oxidation-reduction.

**CHEM 1413 COLLEGE CHEMISTRY II 3 CR. (3 LEC.)**
Prerequisite: CHEM 1403/1401 College Chemistry I/Lab.
Prerequisite or Corequisite: CHEM 1411 College Chemistry II Laboratory.
Covers introductory organic chemistry, chemical equilibrium, thermodynamics, solubility equilibria, kinetics, acid base theory and oxidation-reduction. (ACTS: CHEM 1424; must have CHEM 1413/1411)
CHEM 2701 ORGANIC CHEMISTRY I LABORATORY 1 CR. (3 LAB)
Prerequisite or corequisite: CHEM 2703 Organic Chemistry I.
Presentations of the physical and chemical properties, and structural analysis of aliphatic and aromatic hydrocarbons, alkyl halides, and alcohols.

CHEM 2703 ORGANIC CHEMISTRY I 3 CR. (3 LEC.)
Prerequisite: CHEM 1413 College Chemistry II.
Covers the structural, stereochemical, physical, and chemical properties of hydrocarbons and alkyl halides. Mechanisms of substitution, elimination, and additional reactions will be used to explain trends in chemical reactivity.

CHEM 2711 ORGANIC CHEMISTRY II LABORATORY 1 CR. (3 LAB)
Prerequisite or corequisite: CHEM 2713 Organic Chemistry II.
Presentations of the physical and chemical properties, and structural analysis of aliphatic and aromatic hydrocarbons, alkyl halides, and alcohols.

CHEM 2713 ORGANIC CHEMISTRY II 3 CR. (3 LEC.)
Prerequisite: CHEM 2703 Organic Chemistry I.
Focuses on the chemistry of specific functional groups such as alcohols, carbonyl, conjugated systems and aromatic compounds. Analysis methods such as IR, MS, and NMR will also be covered.

CHEM 3034 DESCRIPTIVE INORGANIC CHEMISTRY 4 CR. (3 LEC., 3 LAB)
Prerequisites: CHEM 1413/1411 College Chemistry II/Lab.
Focuses on descriptive inorganic chemistry, structures of small molecules, and bonding theories in inorganic compounds and complexes. Also includes a survey of bioinorganic chemistry.

CHEM 3202 CHEMICAL LITERATURE AND SEMINAR 2 CR. (2 LEC.)
Prerequisite: CHEM 2713 Organic Chemistry II.
Uses modern chemical literature search methods to abstract information from the body of chemical literature. Students will present their findings in a variety of different methods such as written reports, oral seminars, and poster presentations.

CHEM 3303 MEDICINAL CHEMISTRY 3 CR. (3 LEC.)
Prerequisite: CHEM 2713 Organic Chemistry II.
Focuses on the discovery, invention, and/or design of biologically active compounds. Focuses on the metabolism, mode of action at the molecular level, and structure-activity relationship (SAR), and pharmacological activity of a wide-array of current medicinal compounds.

CHEM 3401 BIOCHEMISTRY I LABORATORY 1 CR. (3 LAB)
Prerequisite or corequisite: CHEM 3403 Biochemistry I.
An introduction to laboratory and analysis techniques used in biochemistry.

CHEM 3403 BIOCHEMISTRY I 3 CR. (3 LEC.)
Prerequisite: CHEM 2713 Organic Chemistry II and BIOL 2003 Introduction to Cell Biology.
Structure and function of important classes of biomolecules and the relationships of structure to function are explored. An introduction to enzyme kinetics, biochemical thermodynamics, and biochemical solution relationships are included.

CHEM 3421 BIOCHEMISTRY II LABORATORY 1 CR. (3 LAB)
Prerequisite: CHEM 3411 Biochemistry Laboratory I.
Prerequisite or corequisite: CHEM 3423 Biochemistry II.
A continuation of the study of laboratory and analysis techniques used in biochemistry.

CHEM 3423 BIOCHEMISTRY II 3 CR. (3 LEC.)
Prerequisite: CHEM 3403 Biochemistry I.
Presentations of metabolic regulation, enzyme kinetics, protein biosynthesis, and application of biochemical principles to physiological processes.

CHEM 3604 ANALYTICAL CHEMISTRY 4 CR. (3 LEC., 3 LAB)
Prerequisite: CHEM 1413/1411 College Chemistry II/Lab.
The total analysis concept is introduced and developed. This framework encompasses the areas of experimental design, sample collection and treatment, and statistical evaluation of results, as well as standard analysis techniques. Basic theory and laboratory practice in analytical chemistry, including introduction
to multiple equilibria and chemical separation methods are addressed.

**CHEM 3991 FOUNDATIONS OF CHEMISTRY RESEARCH** 1 CR. (3 LAB)

Prerequisites: chemistry major in junior standing, completion of at least 12 hours of chemistry, and consent of instructor.

Practical exposure to the concepts of literature searches, experimental design, data analysis, and presentation of results as they relate to chemistry research projects.

**CHEM 400V**

**CHEMISTRY RESEARCH** 1-3 CR. (VARIABLE)

Prerequisite or corequisite: CHEM 3991 Foundations of Chemistry Research.

Covers the scientific method by giving practical exposure to hypothesis testing, experimental design, data collection and analysis as it relates to one of the fields of chemistry. Students are required to publicly present their findings. This course may be repeated for a total of six credit hours.

**CHEM 4203**

**BIOPHYSICAL CHEMISTRY** 3 CR. (3 LEC.)

Prerequisites: CHEM 2703 Organic Chemistry I, and PHYS 2823 College Physics II or PHYS 2923 University Physics II

Explores traditional physical chemistry subject matter from a biochemistry perspective. Topics will include thermodynamics, chemical and enzyme kinetics, solutions of macromolecules, chemical equilibria, transport and signaling processes, and bioenergetics

**CHEM 4401**

**INSTRUCTIONAL METHODS I** 1 CR. (3 LAB)

Prerequisite: CHEM 1413/1411 College Chemistry II/Lab.

Field experience in local junior or senior high school working as tutor in chemistry-related content. Students work in assigned school two hours per week and meet on campus one hour per week to discuss strategies and compare experiences. May be repeated for a total of two hours.

**CHEM 4411 LABORATORY METHODS I** 1 CR. (3 LAB)

Prerequisite: CHEM 2713/2711 Organic Chemistry II/Lab.

Practical experience in planning and carrying out laboratory exercises and demonstrations to suit a variety of levels of students. Students collaborate with instructors, peers, and laboratory students. May be repeated for a total of two hours.

**CHEM 4421**

**INSTRUCTIONAL METHODS II** 1 CR. (3 LAB)

Prerequisite: CHEM 4401 Instructional Methods I.

Field experience in tutoring students in lower-level college chemistry courses. Students work in assigned labs two hours per week and meet with peers one hour per week to discuss strategies and compare experiences. May be repeated for a total of two hours.

**CHEM 4431**

**LABORATORY METHODS II** 1 CR. (3 LAB)

Prerequisite: CHEM 4411 Laboratory Methods I.

Practical experience in the design of laboratory and demonstration activities (including safety) on a topic, but applied to several levels of students and facilities. Students observe and assist in lab activities and evaluate results in consultation with instructor. Class may be repeated for a total of two hours.

**CHEM 4504**

**PHYSICAL CHEMISTRY I** 4 CR. (3 LEC., 3 LAB)

Prerequisites: CHEM 1413/1411 College Chemistry II/Lab and PHYS 2923/2931 University Physics II/Lab.

Topics include thermodynamics, chemical equilibrium, phase equilibrium, and chemistry of solutions. Offered every other year; consult with faculty advisor.

**CHEM 4514**

**PHYSICAL CHEMISTRY II** 4 CR. (3 LEC., 3 LAB)

Prerequisites: CHEM 1413/1411 College Chemistry II/Lab and PHYS 2923/2931 University Physics II/Lab.

Topics include quantum mechanics, atomic and molecular structure, the periodic table, chemical bonding, and kinetics. Course will be offered every other year; consult with faculty advisor.

**CHEM 4614**

**INSTRUMENTAL ANALYSIS** 4 CR. (3 LEC., 3 LAB)

Prerequisites: CHEM 3604 Analytical Chemistry.

Explores instrumental methods of chemical analysis including basic design and theory of operation for modern instrumentation. Emphasizes the practical applications and limitations of each technique. Course is offered every other year; consult with faculty advisor.
CHEM 4704  
**INORGANIC CHEMISTRY**  
4 CR. (3 LEC., 3 LAB)  
Prerequisite or corequisite: CHEM 3604 Analytical Chemistry  
Explores group theory and symmetry, molecular structure and bonding, inorganic crystals, and mechanisms. Course is offered every other year; consult with faculty advisor.

CHEM 4903  
**SPECIAL TOPICS: CHEMISTRY**  
3 CR. (3 LEC.)  
Prerequisite: CHEM 2713/2711 Organic Chemistry II/Lab.  
Current advanced topics in chemistry are explored through lecture and/or laboratory work. Topics are selected based on student and faculty interest. May be repeated for a total of six hours.

CISM  Computer Information Systems-Microcomputer Applications

CISM 0101  
**INTRODUCTION TO PERSONAL COMPUTERS**  
1 CR. (1 LEC.)  
A hands-on microcomputer course. Required of all students not demonstrating the required computer literacy placement score. Introduced to the components of microcomputer systems and their respective functions and operations of the microcomputer system using a Windows Operating System and basic software applications are explored.

CJ  Criminal Justice

CJ 1013  
**INTRODUCTION TO THE CRIMINAL JUSTICE SYSTEM**  
3 CR. (3 LEC.)  
An overview of the issues and trends in the criminal justice system including ethics, law enforcement, courts and trial processes, corrections, jail and prison systems, juvenile justice systems, and the future of the criminal justice system. (ACTS: CRJU 1023)

CJ 1253  
**CRIMINOLOGY**  
3 CR. (3 LEC.)  
Prerequisite: CJ 1013 Introduction to the Criminal Justice System and SOCI 2753 Introduction to Sociology.  
A study of crime as a form of deviant behavior; nature and extent of crime; past and present theories; and evaluation of prevention, control, and treatment programs.

CJ 2313  
**CORRECTIONAL SYSTEMS AND PRACTICES**  
3 CR. (3 LEC.)  
Prerequisite: CJ 1013 Introduction to the Criminal Justice System.  
Analysis and evaluation of contemporary correctional systems and discussion of recent research concerning the correctional institution and the various field services.

CJ 2373  
**POLICE SYSTEMS AND PRACTICES**  
3 CR. (3 LEC.)  
Prerequisite or corequisite: CJ 1013 Introduction to the Criminal Justice System.  
Study of the philosophy and history of law enforcement; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; agencies of law enforcement; the role and place of law enforcement in the total justice process. Examines the police profession; organization of law enforcement systems; police discretion; ethics; police community interaction; current and future issues in policing.

CJ 2403  
**LEGAL ASPECTS OF LAW ENFORCEMENT**  
3 CR. (3 LEC.)  
Prerequisite: CJ 1013 Introduction to the Criminal Justice System.  
A study of investigation, arrest, search and seizure; and constitutional and statutory law and the decisions of the United States Supreme Court and the Arkansas Court of Criminal Appeals.

CJ 2504  
**CRIMINALISTICS: AN INTRODUCTION TO FORENSIC SCIENCE**  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: CJ 1013 Introduction to the Criminal Justice System.  
Process of analysis of forensic evidence and developments in crime scene techniques, to include basic knowledge of, and some practical experience in, techniques concerning types of evidence including fingerprint, impression, hair, fiber, trace, firearm, tooth mark, biological, accelerant, explosive, and drug.
CJ 2513 JUVENILE DELINQUENCY AND JUVENILE JUSTICE 3 CR. (3 LEC.)
Prerequisite or corequisite: CJ 1013 Introduction to Criminal Justice Systems.
Nature and extent of delinquency, explanatory models and theories; the juvenile justice system; history, philosophy, and evaluation of the juvenile court, juvenile court practices and procedures; the role of the police officer and the correctional officer.

CJ 2524 BASIC FORENSIC GRAPHICS 4 CR. (2 LEC., 4 LAB)
Prerequisite or corequisite: CJ 1013 Introduction to Criminal Justice Systems.
Basics of hand and computer graphics required for entry level in the field of crime scene investigation.

CJ 2603 COURTS AND CRIMINAL PROCEDURE 3 CR. (3 LEC.)
Prerequisite: CJ 1013 Introduction to the Criminal Justice System.
Principles of police work, including arrests, search and seizure, and criminal procedures affected by constitutional safeguards.

CJ 290V CRIMINAL JUSTICE: SPECIAL TOPICS 1-5 CR. (VARIABLE)
Prerequisite: consent of instructor.
Designed to give special instruction for new and emerging topics in the criminal justice field that are not otherwise covered in the curriculum. Topics will be offered periodically based on the recognized needs of the field and the availability of the instruction. May be repeated for a total of five hours.

CJ 299V CRIMINAL JUSTICE: SPECIAL PROJECTS 1-3 CR. (VARIABLE)
Prerequisite: consent of instructor.
Designed for the advanced criminal justice student who has completed, or is enrolled in, all other appropriate criminal justice courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of six hours.

CJ 3013 ORGANIZED CRIME 3 CR. (3 LEC.)
Prerequisite: CJ 1253 Criminology.
Provides a realistic concept and understanding of the problem of organized criminal activity throughout the world. Focuses on theories and the evolution of traditional organized crime in America as well as examining the many new and emerging organized crime groups attempting to acquire a stronghold on domestic criminal enterprises.

CJ 3213 CRIMINAL INVESTIGATIONS 3 CR. (3 LEC.)
Prerequisite: CJ 1013 Introduction to the Criminal Justice System.
Overview of scientific crime detection and detailed discussion of techniques for case management and documentation, the concept of proof, the impact of emergent technology on the investigative process, interacting with victims and witnesses, and interviewing suspects. Emphasis on the investigation of particular types of crimes; for example, homicides, sex offenses, child abuse, hate crimes, and so forth.

CJ 3363 VIOLENT OFFENDERS 3 CR. (3 LEC.)
Prerequisite: CJ 2603 Courts and Criminal Procedure.
Provides an introduction to psychological issues relating to understanding, assessing, and managing criminal and other abnormal behavior. An overview of mental disorders and their relationship to criminality and violence is provided. Topics include sanity, psychopathy, criminal profiling, serial killers, stalking, women who kill, and threat assessment.

CJ 3413 PSYCHOLOGY AND CRIME 3 CR. (3 LEC.)
Prerequisite: junior standing.
An introduction and overview to the field of psychology and its relationships to the field of criminal justice. Examines the interface between psychology and the law – including legal proceedings, law enforcement agencies, and correctional institutions.

CJ 390V CRIMINAL JUSTICE: SPECIAL TOPICS 1-5 CR. (VARIABLE)
Prerequisite: consent of instructor.
Designed to give special instruction for new and emerging topics in the criminal justice field that are not otherwise covered in the curriculum. Topics will be offered periodically based on the recognized needs of the field and the availability of the instruction. May be repeated when topics differ for a total of 9 hours.

CJ 3913 DRUGS AND CRIME 3 CR. (3 LEC.)
Prerequisite: junior standing.
Examines the role that drugs play in the U.S. criminal justice system. Include the history of drug prohibition and the types of illegal drugs available in the U.S.; patterns, trends, and scope of illicit drug use; consideration of the relationship between drugs and
crime; and manifestations and consequences of the criminal justice system response.

**CJ 3923 VICTIMOLOGY 3 CR. (3 LEC.)**
Prerequisite: CJ 1253 Criminology.
Examination of the interface between victims and the various components of the criminal justice system. Topics include the history of the victim's rights movement, victim prevention and victim assistance programs, victimization patterns and trends, victim interaction with law enforcement, victim rights and remedies in the court system, and victim roles under the correctional system.

**CJ 397V ACADEMIC INTERNSHIP 3-6 CR. (VARIABLE)**
Prerequisite: Criminal Justice major with 60 hours in program, 2.25 GPA and consent of instructor.
Comprehensive work experience related to student’s major field. Cooperative education, apprenticeships, extended job shadowing, internships, and other systematic, planned work experiences included. Approval of work experience and number of credits to be earned is required. Course may be repeated for a total of six hours with instructor approval.

**CJ 3983 INTRODUCTION TO RESEARCH METHODS 3 CR. (3 LEC.)**
Prerequisite: junior standing in Criminal Justice.
Methods and techniques of research in the behavioral sciences; historical development of psychological and social research; techniques and problems.

**CJ 4113 PROFESSIONALISM AND ETHICS IN CRIMINAL JUSTICE 3 CR. (3 LEC.)**
Prerequisite: CJ 3213 Criminal Investigation.
Study of theories and practices in areas of legality, morality, values, and ethics pertaining to criminal justice. Such topics as police corruption, brutality, and methods of dealing with such practices, as well as the concept of profession and professional conduct.

**CJ 4833 ADMINISTRATIVE CONCEPTS IN LAW ENFORCEMENT 3 CR. (3 LEC.)**
Prerequisite: CJ 2603 Courts and Criminal Procedure.
Principles and practices of administration and their applications to law enforcement. Relationship of theoretical administrative concepts and practical police problems.

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**CJ 4883 CURRENT POLICE POLICIES 3 CR. (3 LEC.)**
Prerequisite: CJ 2313 Correctional Systems and Practices, CJ 2373 Police Systems and Practices, and one of the following: ENGL 1213 Freshman English II, or RHET 2863 Advanced Composition.
Analysis of police policies with particular attention to the current major problem areas from the point of view of both the administrator and the line operations officer. Integration of established scientific knowledge with practical police experience in the various areas of police functioning.

**CJ 490V CRIMINAL JUSTICE RESEARCH 1-6 CR. (VARIABLE)**
Prerequisite: CJ 3983 Introduction to Research Methods.
Designed as a capstone course in primary and secondary research under the direction of a criminal justice faculty member. Research techniques may include secondary information searches, primary data collection, statistical analysis, and composition of a research “white paper.”

**CJ 4953 CRIME AND FILM 3 CR. (3 LEC.)**
Prerequisite: junior standing criminal justice major or consent of instructor
Focuses on films as a reflection of ideas concerning crime, victimization and criminal justice. Traces societal trends, profiling the emergence of stereotypic depictions of crime and society’s response to crime

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**CNA Nursing Assistant**

**CNA 1006 NURSE ASSISTING 6 CR. (4 LEC., 4 LAB)**
The nurse assistant's role will be explored in theory and practice with emphasis on skill proficiency, respecting client’s rights, and therapeutic communication between nurse assistant and client and between nurse assistant and other healthcare providers.
COBI College of Business Integration

COBI 3533 INTERNATIONAL BUSINESS EXPERIENCE 3 CR. (VAR.)
Prerequisite: admission to the College of Business, or consent of instructor for majors outside the College of Business.
Provides students the opportunity to learn about cultural differences between the United States and another foreign country, and business practices in that foreign country. Includes on-campus instruction and a study abroad experience.

COBI 4033 BUSINESS PLAN COMPETITION 3 CR. (VAR.)
Prerequisite: MGMT 3033 New Venture Creation and admission to the College of Business, or consent of instructor for majors outside the College of Business.
Requires the application of principles of management, marketing and finance to a start-up business. Addresses the practical aspects of analyzing the planning and organizing, marketing, human resources, and financial control needs for a new business. Students work in teams to develop a business plan to be entered state, regional or national competitions such as the Donald W. Reynolds Governor's Cup for Entrepreneurial Development.

COBI 457V SPECIAL TOPICS: INTEGRATIVE EXPERIENCE 1-3 CR. (VAR.)
Prerequisite: admission to the College of Business or consent of instructor.
Prerequisite or corequisite: may vary depending on topic.
Topics and current issues requiring the integration of functional areas in business will be addressed. Topics will vary and will be announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of nine hours.

COBI 467V INTEGRATIVE INTERNSHIP 1-4 CR. (VAR.)
Prerequisite: Admission to the College of Business, overall GPA of 2.5, consent of instructor, and any additional criteria as specified for the position.
Prerequisite or corequisite: MGMT 3153 Organizational Behavior.
Designed to offer practical business experience working in an area business along with classroom instruction. The classroom instructor and a business representative will jointly supervise the external intern experience.

COMM Communication

COMM 2203 INTRODUCTION TO MASS COMMUNICATION 3 CR. (3 LEC.)
A survey of mass communications media emphasizing their development, role in society, developing technology, and career options.

COMM 2303 SURVEY OF NEW MEDIA 3 CR. (3 LEC.)
Prerequisite: COMM 2203 Introduction to Mass Communication or consent of instructor.
Survey of the tools and practices of new media as it has evolved during the 21st century and implications for mass communications and journalism.

COMM 3143 SPECIAL TOPICS IN MEDIA COMMUNICATION 3 CR. (3 LEC.)
Prerequisite: COMM 2203 Introduction to Mass Communication or consent of instructor.
Study and work in varied topics related to the production and reception of mass communications. May be repeated once when topics differ.

COMM 3801 PUBLICATIONS STAFF 1 CR. (2 LEC.)
Prerequisite: consent of instructor.
Provides guidance while students learn to work as a team to publish student media. Course is cross-listed with RHET 3801 and may be repeated twice for a total of three credit hours.

COMM 4223 BROADCASTING FOR NEW MEDIA 3 CR. (3 LEC.)
Prerequisite: COMM 2303 Survey of New Media or consent of instructor.
Examines tools and practices of broadcast media as it evolves, with applications for mass communication and journalism.

COMM 4633 WRITING FOR THE WEB 3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments or consent of instructor.
Provides instruction in principles of Web usability and information design. Examines the ways in which online publishing differs from print and what makes Web content effective. Web editing software is used to design and construct a functional website.
COMM 4643
WRITING FOR THE MEDIA  
PREREQUISITE: RHET 3503 Writing Arguments or consent of instructor.  
Advanced instruction in writing for multimedia. Study in the principles of reporting information to the public, including news writing and journalistic style, in addition to the principles of visual rhetoric in order to produce multimedia texts for a variety of media outlets.

COMM 4803 SENIOR SEMINAR  
PREREQUISITE: Rhetoric and Writing or Media Communication major, with senior standing or consent of instructor.  
Provides a capstone experience for Rhetoric and Writing and Media Communication majors. This course is cross-listed with RHET 4803 and may only be taken once for credit.

COMM 493V
INDEPENDENT PROJECT  
PREREQUISITE: COMM 2203 Introduction to Mass Communication or consent of instructor.  
Focuses on creating a project or projects within a specific area of new media writing, such as websites, blogs, hypertexts, documentaries, series, or other long-form journalism.

COMM 495V
COMMUNICATION INTERNSHIP  
PREREQUISITE: Junior standing and consent of instructor.  
Places the student in a working environment, such as a newspaper, an advertising agency, a journal, or a radio or television station to gain actual on-the-job experience. May be repeated twice for credit. Enrollment in courses with the DHYG prefix requires admission to the dental hygiene program.

DHYG  Dental Hygiene

DHYG 1103 PRECLINICAL DENTAL HYGIENE THEORY  
COREQUISITE: DHYG 1202 Preclinical Dental Hygiene.  
Theoretical instruction of basic dental hygiene procedures. Topics include dental equipment operation/maintenance; infection control/aseptic techniques/safety practices; current principles of the instrumentation; and basic data collection and procedures performed by the dental hygienist. Applies theory at the laboratory/clinical level in DHYG 1202.

DHYG 1111
DENTAL ANATOMY AND OCCLUSION  
COREQUISITES: DHYG 1412 Oral Embryology and Histology, DHYG 1103 Preclinical Dental Hygiene Theory, and DHYG 1202 Preclinical Dental Hygiene.  
Study of formation of primary and permanent dentition, including information on crown and root anatomy. All primary and permanent teeth, including tooth form, function, and relationship to oral health; calcification, eruption and exfoliation patterns; ideal static occlusion, dental terminology, and tooth annotation systems. Includes identification and annotation of teeth. Occlusion and malocclusion are studied.

DHYG 1113 CLINIC I THEORY  
PREREQUISITE: DHYG 1103 Preclinical Dental Hygiene Theory.  
Expansion of basic information on dental hygiene therapy, emphasizing skills needed for assessment and treatment of patients. Topics include: preventive and therapeutic procedures to promote and maintain oral health and to assist the patient in achieving oral health goals, management of emergency procedures, treatment planning, dental caries, instrument sharpening, ultrasonics, and fluoride therapy. Application of theory in DHYG 1213.

DHYG 1202
PRECLINICAL DENTAL HYGIENE  
COREQUISITE: DHYG 1103 Preclinical Dental Hygiene Theory.  
Clinical instruction of topics discussed in DHYG 1103. Procedures will be completed through practice on mannequins and student partners.

DHYG 1212 PERIODONTOLOGY I  
PREREQUISITES: DHYG 1103 Preclinical Dental Hygiene Theory and DHYG 1202 Preclinical Dental Hygiene.  
Corequisites: DHYG 1113 Clinic I Theory, DHYG 1213 Dental Hygiene Clinic I and DHYG 1453 General and Oral Pathology.  
Periodontal anatomy, physiology, and the etiology of periodontal diseases. Includes the clinical, histopathological, pathogenesis of gingivitis and
periodontics, and the role of the host response, genetics, tobacco use, and systemic disorders. Preventive and therapeutic procedures associated with diagnosis, prognosis, treatment planning, and initial phase of periodontal therapy are discussed. Emphasis on bacterial-induced oral diseases and their recognition.

**DHYG 1213**
**DENTAL HYGIENE CLINIC I**
3 CR. (12 LAB)
Prerequisite: DHYG 1202 Preclinical Dental Hygiene.
Corequisite: DHYG 1113 Clinic I Theory.
Clinical instruction of topics discussed in DHYG 1113. Application of the principles of the dental hygiene process of care including assessment, planning, implementation and evaluation are covered.

**DHYG 1313 RADIOLGY**
3 CR. (2 LEC., 3 LAB)
Prerequisite: CHEM 1303 Chemical Principles.
Theory and clinical practice of oral radiographic methods. Topics include properties and uses of x-radiation, radiation hygiene, exposing and developing radiographs (intraoral, extraoral, panoramic, and digital), mounting films, identification of radiographic anatomical landmarks, and radiographic interpretation. Clinical experience is required throughout the remaining semesters.

**DHYG 1412 ORAL EMBRYOLOGY AND HISTOLOGY**
2 CR. (2 LEC.)
Prerequisite: admission to the Dental Hygiene Program.
Study of oral embryology and histology, including the application of pathophysiology to specific organ systems, extensively of the mouth. Emphasis on the identification and management of selected oral conditions.

**DHYG 1432**
**HEAD AND NECK ANATOMY**
2 CR. (2 LEC.)
Prerequisite: BIOL 1523/1521 Anatomy and Physiology I/Lab.
Study includes the bones, muscles, nerves, vascular supply, and specialized tissues of the head and neck. Topics include the skeletal muscular, nervous, circulatory, and digestive systems with an emphasis on correlating content to dental hygiene interventions.

**DHYG 1443 PHARMACOLOGY**
3 CR. (3 LEC.)
Prerequisites: DHYG 1103 Preclinical Dental Hygiene Theory, DHYG 1202 Preclinical Dental Hygiene, DHYG 1412 Oral Embryology and Histology, and DHYG 1432 Head and Neck Anatomy.
Corequisite: DHYG 1453 General and Oral Pathology.
Study of the physiologic effects of medications with an emphasis on commonly prescribed medications. The composition, dosage, therapeutic action, use, and effects of drugs related to clinical dentistry and dental hygiene are studied. Emergency treatment for drug hypersensitivity is included.

**DHYG 1453**
**GENERAL AND ORAL PATHOLOGY**
3 CR. (3 LEC.)
Prerequisites: DHYG 1103 Preclinical Dental Hygiene Theory, DHYG 1412 Oral Embryology, Histology, and Anatomy, BIOL 1463/1461 Microbiology and Immunology/Lab, and BIOL 1533/1531 Anatomy and Physiology II/Lab.
Basic concepts of general pathology including inflammation, immunology, microorganisms, neoplasm, and hormonal influence. The process of disease with emphasis on diseases and their manifestations in the oral cavity. Emphasis on the recognition of abnormal oral conditions, as well as systemic disorders that require modifications in patient management.

**DHYG 2122 CLINIC II THEORY**
2 CR. (2 LEC.)
Prerequisites: DHYG 1113 Clinic I Theory and DHYG 1213 Dental Hygiene Clinic I.
Corequisite: DHYG 2224 Dental Hygiene Clinic II.
Advanced clinical theory of patient care and management. Includes advanced periodontal instrumentation techniques, intraoral media equipment, dental implants, air polishing, use of fluorides, and the assessment and treatment of patients with special needs.

**DHYG 2132 CLINIC III THEORY**
2 CR. (2 LEC.)
Corequisites: DHYG 2234 Dental Hygiene Clinic III and DHYG 2372 Dental Nutrition.
Advanced clinical theory of patient care and management. Emphasis on treating patients with special needs and the periodontal patient. Presentation of case studies, to include nutritional counseling, of the periodontal and special-needs patient is required.

**DHYG 2224**
**DENTAL HYGIENE CLINIC II**
4 CR. (16 LAB)
Prerequisites: DHYG 1113 Clinic I Theory and DHYG 1213 Dental Hygiene Clinic I.
Corequisites: DHYG 2122 Clinic II Theory and DHYG 2512 Local Anesthesia and Nitrous Oxide.
Clinical treatment of patients with emphasis placed
on treating periodontally involved patients. Clinical application and evaluation of topics presented in DHYG 2122 and DHYG 2463. Procedures performed on student partners and patients.

**DHYG 2234**  
**DENTAL HYGIENE CLINIC III  4 CR. (16 LAB)**  
Prerequisites: DHYG 2122 Clinic II Theory and DHYG 2224 Dental Hygiene Clinic II.  
Corequisite: DHYG 2132 Clinic III Theory.  
Focuses on the competence in clinical skills required in providing dental hygiene care. Emphasis on the provision of competent and quality patient care. Students may rotate to extramural sites in the area to obtain additional clinical experiences with special needs and periodontal patients.

**DHYG 2311 PERIODONTAL TOLOGY II  1 CR. (1 LEC.)**  
Prerequisite: DHYG 1212 Periodontology I.  
Corequisites: DHYG 2512 Local Anesthesia and Nitrous Oxide, DHYG 2224 Dental Hygiene Clinic II, DHYG 2122 Clinic II Theory, and DHYG 2372 Dental Nutrition.  
Continuation of Periodontology I including the clinical procedures associated with the surgical phase of periodontal therapy, as well as the use of adjunctive chemotherapeutic treatments. Emphasis on the evaluation of periodontal treatment as well as the maintenance phase and the relationship between periodontics and other dentistry disciplines.

**DHYG 2372 DENTAL NUTRITION  2 CR. (2 LEC.)**  
Corequisites: DHYG 2122 Clinic II Theory, DHYG 2224 Dental Hygiene Clinic II, and DHYG 2311 Periodontology II.  
Provides dental healthcare professionals with information in many aspects of nutrition. The biochemistry of nutrients, their metabolism, current concepts in nutrition throughout the life cycle are considered. Nutritional counseling techniques are discussed, and students determine the nutritional status of their patients utilizing these techniques. Clinical application to health and the effects of nutritional deficiencies included.

**DHYG 2463**  
**DENTAL MATERIALS  3 CR. (2 LEC., 3 LAB)**  
Corequisites: DHYG 2224 Dental Hygiene Clinic II and DHYG 2122 Clinic II Theory.  
Designed to familiarize the student with commonly used materials in dentistry. Content on the theory and manipulation of dental materials including material composition, and physical and chemical properties. The theory and technique of finishing and polishing amalgam and composite restorations is presented. Students take aligned impressions, make study models, manufacture mouthguards and bleaching trays, and place pit and fissure sealants on patients.

**DHYG 2512 LOCAL ANESTHESIA AND NITROUS OXIDE  2 CR. (1 LEC., 4 LAB)**  
Prerequisites: DHYG 1113 Clinic I Theory and DHYG 1213 Dental Hygiene Clinic I.  
Corequisites: DHYG 2122 Clinic II Theory and DHYG 2224 Dental Hygiene Clinic II.  
Anatomy, physiology, pharmacology, patient assessment, indications and contraindications, selection of agents, injection techniques, complications, emergency management, and legal and ethical considerations are covered. Classroom and laboratory sessions are included for the student to develop competency in the techniques of administering local anesthetics and nitrous oxide inhalation sedation.

**DHYG 2522 ETHICS AND PRACTICE MANAGEMENT  2 CR. (2 LEC.)**  
Prerequisites: DHYG 2122 Clinic II Theory and DHYG 2224 Dental Hygiene Clinic II.  
Corequisites: DHYG 2132 Clinic III Theory, DHYG 2234 Dental Hygiene Clinic III, and DHYG 2533 Community Dentistry and Dental Health Education.  
Provides information regarding many aspects of ethics and professionalism including ethical theory and philosophy, ethical principles and values, ethical decision-making in dental hygiene and dentistry, state practice acts, and risk management. The legal, ethical, and managerial aspects of dental hygiene practice including employee rights and responsibilities are included.

**DHYG 2533 COMMUNITY DENTISTRY AND DENTAL HEALTH EDUCATION  3 CR. (2 LEC, 3 LAB)**  
Prerequisites: DHYG 2122 Clinic II Theory and DHYG 2311 Periodontology II.  
Corequisites: DHYG 2234 Dental Hygiene Clinic III and DHYG 2132 Clinic III Theory.  
Emphasizes the hygienist’s role in dental health education and public health. Course includes an examination of methods to assess the oral health status of communities including the theory and application regarding program assessment, planning, implementation, and evaluation. Student will develop cultural awareness and competence as a result of theory and community activities required in this course.
**DIES  Diesel**

**DIES 2154 INTRODUCTION TO DIESEL SYSTEMS**  
4 CR. (2 LEC., 4 LAB)  
Prerequisite: ATDI 1234 Theory and Maintenance.  
Functions of diesel engines and diesel systems are introduced. Experience is gained in working with engine controls, fuel management, emissions control systems, engine components, and operation.

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**ECED  Early Childhood Education**

**ECED 1051 ART IN THE ECED CLASSROOM**  
1 CR. (1 LEC.)  
Provides early childcare providers with the skills and knowledge to introduce children to new art materials and techniques that help them achieve their creative potential. Participants experience actual artistic activities and gain confidence in a medium in which they often question their ability. Their skills will then translate into their work with children. Curriculum activities are aligned with the NAEYC standards and the Arkansas B-4 frameworks.

**ECED 1102 FOUNDATIONS AND THEORIES IN EARLY CHILDHOOD**  
2 CR. (2 LEC.)  
An introduction to theories of early childhood development, professional ethics, and program organization. The social, historical, and philosophical foundations of early childhood education are covered. Career choices, professionalism, classroom management techniques, and administrative regulations are explored.

**ECED 1202 EARLY CHILDHOOD GROWTH AND DEVELOPMENT**  
2 CR. (2 LEC.)  
Covers physical, emotional, mental, and social growth from birth to age eight. Students observe and record the behavior and characteristics of young children and infants in a variety of settings. Strategies to meet developmental needs of children and infants explored.

**ECED 1304 DEVELOPMENTALLY APPROPRIATE PRACTICE IN EARLY CHILDHOOD**  
4 CR. (4 LEC.)  
Corequisites: ECED 2053 Music, Movement, and Art and ECED 1421 Early Childhood Field Experience III.  
Prepares students to understand and implement developmentally appropriate learning environments for children from birth to age eight. Emphasis placed on choosing the most effective method of instruction in relation to social, psychological, curricular, and environmental factors.

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**ECED 1401 EARLY CHILDHOOD FIELD EXPERIENCE I**  
1 CR. (1 LAB)  
Corequisites: ECED 2023 Foundations of Early Childhood Education and ECED 2033 Child Development.  
Observing, recording, and interpreting human growth and development within the early childhood environment from prenatal period through age five with emphasis on observation of physical, social, and emotional development in connection with ECED 2023 and ECED 2033.

**ECED 1411 EARLY CHILDHOOD FIELD EXPERIENCE II**  
1 CR. (1 LAB)  
Corequisites: ECED 1304 Developmentally Appropriate Practice and ECED 2053 Music, Movement, and Art.  
Observing, recording, and interpreting human growth and development within the early childhood environment from prenatal period through age five with emphasis on observation of physical, cognitive, language, social, and emotional development and observation of the relationship between growth and development to overall appropriate early childhood practices, art, music and movement in connection with ECED 1304 and ECED 2053.

**ECED 1421 EARLY CHILDHOOD FIELD EXPERIENCE III**  
1 CR. (1 LAB)  
Observing, recording, and interpreting human growth and development within the early childhood environment from prenatal period through age five with emphasis on observation of physical, cognitive, language, social, and emotional development in connection with ECED 2003 and EDUC 2003.

**ECED 1431 EARLY CHILDHOOD FIELD EXPERIENCE IV**  
1 CR. (1 LAB)  
Corequisites: ECED 2083 Essential Early Childhood Literacy and Language and ECED 2093 Health, Safety and Nutrition for Young Learners.  
Observing, recording, and interpreting human growth and development within the early childhood environment from prenatal period through age five with emphasis on observation of physical, cognitive, language, social, and emotional development in connection with ECED 2083 and ECED 2093.
environment from birth through age five with emphasis on observation of the relationship between growth and development to literacy, health, safety in the environment, and nutrition.

**ECED 2003 GUIDANCE AND BEHAVIOR MANAGEMENT** 3 CR. (3 LEC.)
Corequisites: EDUC 2003 Essential Math and Science in the Early Childhood Classroom and ECED 1421 Early Childhood Field Experience III.
A comprehensive picture of guidance in a developmentally appropriate framework for children birth to grade four. Purpose is to improve the quality of life for children and families by contributing to the professional development of early childhood educators as it relates to guiding young children. Topics include but are not limited to: direct and indirect guidance, principles of child development, guidance, behavior management, environmental issues, goals of misbehaviors, consequences, current research, and skills that promote social/emotional competence. Curriculum activities are aligned with the NAECY standards and the Arkansas B-4 frameworks.

**ECED 2023 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION** 3 CR. (3 LEC.)
Corequisite: ECED 2033 Child Development and ECED 1401 Early Childhood Field Experience I.
An introduction to the field of early childhood education, including a history of the movement, influencing concepts and theories, and relevant issues.

**ECED 2033 CHILD DEVELOPMENT** 3 CR. (3 LEC.)
Corequisite: ECED 1401 Early Childhood Field Experience I and ECED 2023 Foundations of Early Childhood Education.
A study of the physical, cognitive, and psychosocial development of the individual beginning with the prenatal period and continuing through early adolescence. Includes an on-site field experience in settings for young children.

**ECED 2053 MUSIC, MOVEMENT, AND ART** 3 CR. (3 LEC.)
Corequisites: ECED 1304 Developmentally Appropriate Practice and ECED 1411 Early Childhood Field Experience II.
Addresses the roles of music, movement and art in developing children's physical-motor, social-emotional, and cognitive skills, with emphasis on providing an environment that fosters the development of creativity, aesthetic, and multicultural awareness. Curriculum activities are aligned with NAECY standards and the Arkansas infant toddler, three- and four-year-old and P-4 Frameworks.

**ECED 2073 MUSIC AND MOVEMENT** 3 CR. (2 LEC., 1 LAB)
Addresses the roles of music and movement in developing children's physical-motor and social-emotional, cognitive skills, with emphasis on providing an environment that fosters the development of creativity, aesthetic, and multicultural awareness. Curriculum activities are aligned with the NAECY standards and the Arkansas infant toddler, three- and four-year-old and P-4 frameworks. Includes ten hours of field experience, which requires a current TB test.

**ECED 2083 ESSENTIAL EARLY CHILDHOOD LITERACY AND LANGUAGE** 3 CR. (3 LEC.)
Corequisites: ECED 1431 Early Childhood Field Experience IV and ECED 2093 Health, Safety, and Nutrition for Young Learners.
Provides the student with a comprehensive understanding of literacy and language in a developmentally appropriate framework for children from birth to age four. Curriculum goals and activities are aligned with the NAECY standards, the Pathway Criteria, the INTASC principles, the Arkansas teacher licensure standards, and the Arkansas infant toddler, three- and four-year-old and P-4 frameworks.

**ECED 2093 HEALTH, SAFETY, AND NUTRITION FOR YOUNG LEARNERS** 3 CR. (3 LEC.)
Corequisites: ECED 1431 Early Childhood Field Experience IV and ECED 2083 Essential Early Childhood Literacy and Language.
Provides early childcare providers with skills and knowledge necessary for meeting health, safety and nutritional guidelines for children. Emphasis is on children birth to five, specifying childcare licensing requirements and activity planning. Learned skills will translate into candidates' work with children, as they provide developmentally-appropriate learning environments and practices that respect the needs of all diversities.

**ECED 3003 SCIENCE IN THE EARLY CHILDHOOD CLASSROOM** 3 CR. (3 LEC.)
Prerequisite: ECED major, sophomore standing and one of the following: BIOL 1153/1151 Biological Science/Lab, PHSC 2713/2711 Physical Science/Lab, or PHSC 2653/2651 Earth Science/Lab.
A study of the developmentally appropriate
materials, methods, and procedures for teaching science in the early childhood classroom.

**ECED 3023 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION** 3 CR. (3 LEC.)
Prerequisite: EDUC 2753 Introduction to Education/Field Experience, EDUC 3001 Electronic Portfolio Development, and EDUC 3002 Introduction to Educational Technology.
Corequisite: ECED 3033 Child Development.
An introduction to the field of early childhood education, including a history of the movement, influencing concepts and theories, and relevant issues in today's society.

**ECED 3033 CHILD DEVELOPMENT** 3 CR. (3 LEC.)
Prerequisite: EDUC 2753 Introduction to Education/Field Experience, EDUC 3001 Electronic Portfolio Development, and EDUC 3002 Introduction to Educational Technology.
Corequisite: ECED 3023 Foundations of Early Childhood Education.
A study of the physical, cognitive, and psychosocial development of the individual beginning with the prenatal period and continuing through early adolescence. Includes an on-site field experience in settings for young children.

**ECED 3043 DEVELOPMENTALLY APPROPRIATE PRACTICE** 3 CR. (3 LEC.)
Prerequisites: ECED 3023 Foundation of Early Childhood Education and ECED 3033 Child Development, and admission to the Early Childhood Education program.
Corequisites: ECED 3053 Children and Families in a Diverse Society.
A study of developmentally appropriate practice for young children from birth through age nine. An integrated curricular study of appropriate early childhood curriculum, materials, environments, assessments, expectations, instructional strategies, and considerations for early childhood educators. Appropriate field observations and experiences are part of this course and is integrated with course content.

**ECED 3053 CHILDREN AND FAMILIES IN A DIVERSE SOCIETY** 3 CR. (3 LEC.)
Prerequisites: ECED 3023 Foundation of Early Childhood Education and ECED 3033 Child Development and admission to the Early Childhood Education program.
Corequisites: ECED 3043 Developmentally Appropriate Practice.
Study of the characteristics of young children with developmental disabilities in the contexts of family theory and intervention. Emphasis placed on how these characteristics impact the child's family and educational needs.

**ECED 3063 METHODS OF TEACHING MATHEMATICS IN THE EARLY CHILDHOOD SETTING** 3 CR. (3 LEC.)
Prerequisite: MATH 1403 College Algebra and MATH 2243 Geometry and Measurements II.
Developmentally appropriate teaching strategies and support systems needed for introducing and developing the mathematical mind of the Pre-K - 4 students.

**ECED 3113 INTEGRATED CURRICULUM I (3-5 YEARS)** 3 CR. (3 LEC.)
Prerequisites: ECED 3043 Developmentally Appropriate Practice and ECED 3053 Children and Families in a Diverse Society.
Corequisites: ECED 3122 Practicum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I, and ECED 3193 Children's Literature.
Pre-service teachers build a working knowledge of curriculum strategies and techniques on which to base wise curriculum decision making for children 3-5 years of age. This course is connected to the ECED 3122 Practicum I.

**ECED 3122 PRACTICUM I** 2 CR. (4 LAB)
Prerequisites: ECED 3043 Developmentally Appropriate Practice and ECED 3053 Children and Families in a Diverse Society.
Provides pre-service teachers with field-based experiences for children aged three to five years. Requires classroom observation of four hours per week.

**ECED 3153 CREATIVE ARTS IN EARLY CHILDHOOD EDUCATION** 3 CR. (3 LEC.)
Prerequisite: ECED 3023 Foundations of Early Childhood Education, ECED 3033 Child Development, and admission to the Early Childhood Education program.
Current theory, research, and practice for using art, music, movement, and drama in educational settings Pre-K through Fourth Grade. Emphasis on integration of creative experiences in early childhood setting and how the creative arts support the cognitive growth of young children.
ECED 3173 GUIDING CHILDREN  
3 CR. (3 LEC.)
Prerequisite: ECED 3023 Foundations of Early Childhood Education, ECED 3033 Child Development, ECED 3043 Developmentally Appropriate Practice, and ECED 3053 Children and Families in a Diverse Society.
Corequisite: ECED 3113 Integrated Curriculum I (3-5 yrs), ECED 3122 Practicum I, ECED 3183 Language and Literacy I (3-5 yrs), and ECED 3193 Children's Literature.
Emphasis placed on guidance and management of young children in grades pre-K-grade four, individually and in groups. Focuses on developmentally appropriate practices in multicultural settings encouraging the positive potential inherent in children to become self-regulated learners. Creation of a context for positive discipline and building self-esteem and social competence is explored. Course is connected to the ECED 3122 Field Experience.

ECED 3183 LANGUAGE AND LITERACY I (3-5 YEARS)  
3 CR. (3 LEC.)
Prerequisites: ECED 3043 Developmentally Appropriate Practice and ECED 3053 Children and Families in a Diverse Society.
A study of teaching strategies and support systems for encouraging the various areas of literacy in the three- to five-year-old child. This course is connected to the ECED 3122 Practicum.

ECED 3193 CHILDREN'S LITERATURE  
3 CR. (3 LEC.)
Prerequisite: ECED 3023 Foundations of Early Childhood Education, ECED 3033 Child Development, ECED 3043 Developmentally Appropriate Practice and ECED 3053 Children and Families in a Diverse Society.
Corequisites: ECED 3113 Integrated Curriculum I (3-5 yrs), ECED 3122 Practicum I, ECED 3173 Guiding Children, and ECED 3183 Language and Literacy I (3-5 yrs)
Study of the sources and types of reading materials available for 3-9 year old children and ways to use them in order to enhance all areas of learning. This course is connected to ECED 3122: Practicum I.

ECED 3213 INTEGRATED CURRICULUM II (6-9 YEARS)  
3 CR. (3 LEC.)
Prerequisites: ECED 3113 Integrated Curriculum I, ECED 3122 Practicum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I, ECED 3193 Children's Literature.
Prerequisite or corequisite: ECED 3153 Creative Arts in Early Childhood.
Corequisites: ECED 3222 Practicum II, ECED 3263 Early Childhood Assessment, ECED 3283 Language and Literacy II.
Builds on concepts presented in ECED 3113 and emphasizes developmentally appropriate curriculum for children ages six to nine, mandated curriculum, and contemporary issues related to curriculum. This course is connected to the ECED 3222 Practicum II.

ECED 3222 PRACTICUM II  
2 CR. (4 LAB)
Prerequisites: ECED 3113 Integrated Curriculum I, ECED 3122 Practicum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I, ECED 3193 Children's Literature.
Prerequisite or corequisite: ECED 3153 Creative Arts in Early Childhood.
Corequisites: ECED 3213 Integrated Curriculum II, ECED 3263 Early Childhood Assessment, and ECED 3283 Language and Literacy II.
Designed to provide pre-service teachers with field-based experiences for children aged six to nine years. Requires classroom observation of four hours per week.

ECED 3263 EARLY CHILDHOOD ASSESSMENT  
3 CR. (3 LEC.)
Prerequisites: ECED 3023 Foundations of Early Childhood Education, ECED 3033 Child Development, ECED 3043 Developmentally Appropriate Practice, ECED 3053 Children and Families in a Diverse Society, ECED 3113 Integrated Curriculum I (3-5 yrs), ECED 3122 Practicum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I (3-5 yrs), and ECED 3193 Children's Literature.
Prerequisite or corequisite: ECED 3153 Creative Arts in Early Childhood.
Corequisites: ECED 3213 Integrated Curriculum II (6-9 yrs), ECED 3222 Practicum II, and ECED 3283 Language and Literacy II (6-9 yrs).
Study of fundamental observation, assessment, and evaluation methods, concepts, and tools. Emphasis on qualitative and quantitative methods of measuring and reporting student progress and learning. Gives beginning teacher a background in the collection and
interpretation of data with the goal of making valid data-driver decisions. Connected to the ECED 3222 Practicum II.

**ECED 3283 LANGUAGE AND LITERACY II (6-9 YEARS)** 3 CR. (3 LEC.)
- Prerequisites: ECED 3113 Integrated Curriculum I, ECED 3122 Practicum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I, ECED 3193 Children’s Literature.
- Prerequisite or corequisite: ECED 3153 Creative Arts in Early Childhood.
- Teaching strategies and support systems for encouraging the various areas of literacy in the six- to nine-year-old child. The course is connected to ECED 3222 Practicum II.

**ECED 490A EARLY CHILDHOOD EDUCATION INTERNSHIP** 10 CR. (36 LAB)
- Prerequisite: admission to student internship.
- Corequisite: EDUC 4802 Seminar in Education.
- Intensive field experience that culminates the early childhood program. Students spend time in early childhood school environments applying their knowledge and skills in reflective decision making with children, families, and school personnel.

**ECON Economics**

**ECON 2803 PRINCIPLES OF MACROECONOMICS** 3 CR. (3 LEC.)
- Prerequisites: MATH 1403 College Algebra or higher math course.
- Introduction to macroeconomic theory, the study of national and world economies. Examines the interaction of households, businesses, and governments (domestic and foreign) in determining economic output and overall standard of living. Explores how inflation, unemployment, investment, interest rates, trade, exchange rates, taxes, national debt and fiscal and monetary policy affect society. Emphasizes students’ economic roles as consumers, workers, investors, and citizens. (ACTS: ECON 2103)

**ECON 2803H PRINCIPLES OF MACROECONOMICS (HONORS)** 3 CR. (3 LEC.)
- Prerequisites: MATH 1403 College Algebra or higher math course, and admission to honors program or consent of instructor.
- Introduction to macroeconomic theory, the study of national and world economies. Examines the interaction of households, businesses, and governments (domestic and foreign) in determining economic output and overall standard of living. Explores how inflation, unemployment, investment, interest rates, trade, exchange rates, taxes, national debt and fiscal and monetary policy affect society. Emphasizes students’ economic roles as consumers, workers, investors, and citizens.

**ECON 2813 PRINCIPLES OF MICROECONOMICS** 3 CR. (3 LEC.)
- Prerequisites: sophomore standing and MATH 1403 College Algebra or higher math course.
- Introduction to microeconomic theory, the study of consumer and firm behavior. Examines the interaction of demand and supply in determining market price and output. Explores preferences, utility, consumer choice, elasticities, production, costs, and efficiency. Emphasizes manager decision making in the presence of various market structures including perfect competition, monopolistic competition, oligopoly, and monopoly. Overviews economic rationale of anti-trust policy. (ACTS: ECON 2203)

**ECON 3313 MICROECONOMIC ANALYSIS** 3 CR. (3 LEC.)
- Prerequisite: ECON 2813 Principles of Microeconomics, MATH 2403 Survey of Calculus or higher MATH, and admission to the College of Business, or consent of instructor.
- Intermediate course in microeconomics - designed to enhance the concepts and theories introduced at the principles level. Provides a mathematical examination of demand and supply, consumer choice, elasticities, production, and cost functions. Further develops short- and long-run firm pricing and output decisions in the presence of competitive and non-competitive market equilibrium models.

**ECON 3353 MACROECONOMIC ANALYSIS** 3 CR. (3 LEC.)
- Prerequisite: ECON 2803 Principles of Macroeconomics, MATH 2403 Survey of Calculus or higher MATH and admission to the College of Business, or consent of instructor.
Intermediate course in macroeconomics, designed to build upon the concepts introduced at the principles level. Mathematical examination of aggregate demand and supply, national income, money and inflation, trade, unemployment, growth, and business cycles. Explores debates concerning the use of stabilization policy and government debt.

**ECON 3363 LABOR ECONOMICS 3 CR. (3 LEC.)**
Prerequisite: ECON 2813 Principles of Microeconomics.
The economics of labor markets; factors affecting the economy's demand for labor and the decisions of workers to supply labor. Current labor market problems such as unemployment, unions, poverty, and productivity are analyzed.

**ECON 4203 INTERNATIONAL ECONOMICS 3 CR. (3 LEC.)**
Prerequisites: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics, and admission to the College of Business, or consent of instructor.
Covers international trade theory and policy in the light of recent world events. Explores issues such as trade theory, barriers to trade and balance of payments.

**ECON 4223 NATURAL RESOURCE ECONOMICS 3 CR. (3 LEC.)**
Prerequisite: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics and admission to the College of Business, or consent of instructor.
Explores relevant issues in the area of natural resource economics. Analytical tools such as willingness-to-pay, static and dynamic efficiency, direct controls, market-based regulation, impact analysis, cost-effectiveness analysis, and benefit-cost analysis are introduced. Analysis methods are then applied to current issues related to energy, forestry, marine resources, land, water, outdoor recreation, wildlife management, and biodiversity preservation.

**ECON 4323 PUBLIC EXPENDITURES AND TAXATION 3 CR. (3 LEC.)**
Prerequisite: ECON 2813 Principles of Microeconomics.
Deals with public revenues, the theory of taxation, institutions, and problems of the revenue system as a whole, and studies the effects of the taxing, spending, lending, and borrowing by government units upon the national income and employment.

**ECON 4333 URBAN ECONOMICS 3 CR. (3 LEC.)**
Prerequisite: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics and admission to the College of Business, or consent of instructor.
Introduces space into economic models and studies some of the major economic and social problems facing large American cities and their surrounding metropolitan regions such as poverty, crime, housing, and transportation. The spatial aspects of local government policy will also be studied.

**ECON 4343 MANAGERIAL ECONOMICS 3 CR. (3 LEC.)**
Prerequisites: ECON 2813 Principles of Microeconomics, MGMT 2963 Business Statistics, MATH 2403 Survey of Calculus or higher MATH, and admission to the College of Business, or consent of instructor.
Integrates microeconomic theory with concepts from business statistics, finance, management, and marketing. Designed to prepare students for real-world decision making as business managers. Examines the use of microeconomic theory in an empirical setting. Specific topics include demand estimation and forecasting, production and cost analysis, and strategic decision making in the presence of various market structures.

**ECON 447V INDEPENDENT STUDY IN ECONOMICS 1-3 CR. (VARIABLE)**
Prerequisites: admission to the College of Business and consent of instructor and department head.
Prerequisite or corequisite; may vary depending on topic.
Individual problems or topics in economics arranged in consultation with instructor. May be repeated for a total of six hours.

**ECON 457V SPECIAL TOPICS IN ECONOMICS 1-3 CR. (VARIABLE)**
Prerequisite: admission to the College of Business or consent of instructor.
Prerequisite or corequisite; may vary depending on topic.
Topics and current issues of critical importance to the field of economics. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.
EDUC  Education

EDUC 2003 ESSENTIAL MATH AND SCIENCE IN THE EARLY CHILDHOOD CLASSROOM  3 CR. (3 LEC.)

Corequisites: ECED 2003 Guidance and Behavior Management and ECED 1421 Early Childhood Field Experience III.

Designed for an associate degree in early childhood education. Study in materials, methods, and procedures for teaching an integrated learning process as it relates to mathematics and science for three- to five-year-old children. Includes the development of inquiry in developmentally appropriate math and science activities for early childhood activities. Course does not apply toward a bachelor's degree.

EDUC 2753 INTRODUCTION TO EDUCATION/FIELD EXPERIENCE  3 CR. (3 LEC.)

Prerequisite: sophomore standing, ENGL 1203 Freshman English I or ENGL 1233 Honors Composition with a grade of “C” or better.

Recommended prerequisites or corequisites: a grade of “C” or better for all coursework on the degree plan, and a cumulative GPA of 2.5 or better.

Note: Student requests for placement are considered. Placement sites are based on available schools.

Designed to acquaint the prospective teacher with the historical, social, and philosophical foundations of American education; the ideals, administration, organization, and programs of education; and the professional and personal requirements, opportunities, and responsibilities of teaching as a profession.

Students spend a minimum of thirty hours in a school setting as an observer/participant. Applicable toward state teacher certification. Requires classroom observation of two hours per week.

EDUC 3001 ELECTRONIC PORTFOLIO DEVELOPMENT  1 CR. (1 LEC.)

Prerequisite: required computer literacy placement score, or ITA 1003 Computer Applications for the Knowledge Worker, or CISIM 0101 Introduction to Personal Computers.

Corequisite: EDUC 3002 Introduction to Educational Technology.

Students create a thematic project-based unit including student samples, lesson plans, assessment tools, and reflection tools. Technology will provide a framework for expanded electronic portfolio development. Designed for early childhood and middle school majors.

EDUC 3002 INTRODUCTION TO EDUCATIONAL TECHNOLOGY  2 CR. (2 LEC.)

Prerequisite: required computer literacy placement score, or ITA 1003 Computer Applications for the Knowledge Worker, or CISIM 0101 Introduction to Personal Computers.

Incorporation of technology into the instructional situations. Students become familiar with classroom computer utilization for instructional and classroom management technology; state and national standards for technology and curriculum areas, and create lessons centered upon those standards. Designed for early childhood, middle level, and secondary education majors.

EDUC 3013 HUMAN DEVELOPMENT AND LEARNING  3 CR. (3 LEC.)

Prerequisite: admission to teacher education.

Corequisite: EDUC 3222 Practicum I and one of the five following courses: EDUC 3112 Literacy Development in the Content Area, ENGL 3203 Young Adult Literature, ENGL 3303 Writing and the Teaching of Writing, MATH 3813 Mathematics Pedagogy For Spatial Relations, MATH 3823 Mathematics Pedagogy for Upper Secondary Mathematics.

A study of the physical, emotional, mental, cognitive, and social growth of school-age individuals and an introduction to educational psychology as a research-oriented discipline. Focuses on the application of practical theories and principles of development and learning to instructional planning, teaching, management, and assessment. Consists of classroom instruction and a field component.

EDUC 3023 ADOLESCENT GROWTH AND DEVELOPMENT  3 CR. (3 LEC.)

Prerequisite: admission to teacher education or possession of an initial or standard teaching license.

A study of the physical, emotional, mental, cognitive, and social growth of school age individuals and an introduction to educational psychology as a research-oriented discipline. Focuses on the application of practical theories and principles of adolescent teaching, management, and assessment particularly pertinent to fifth and sixth grade teachers.
EDUC 3112 LITERACY DEVELOPMENT IN THE CONTENT AREA  2 CR. (2 LEC.)  
Prerequisites: admission to teacher education.  
Corequisite: EDUC 3222 Practicum I.  
Course for middle school, secondary school, and special content teacher education majors. Study of the role of literacy in the learning process as it relates to specific and interdisciplinary subject areas. Students integrate literacy-related strategies with curriculum-based goals as they prepare to facilitate learning for students in middle childhood and high school.

EDUC 3221 PRACTICUM I  1 CR. (4 LAB)  
Prerequisite: admission to teacher education.  
Corequisites: EDUC 3013 Human Development and Learning and one of the five following courses: EDUC 3112 Literacy Development in the Content Area, ENGL 3203 Young Adult Literature, ENGL 3303 Writing and the Teaching of Writing, MATH 3813 Mathematics Pedagogy For Spatial Relations or MATH 3823 Mathematics Pedagogy for Upper Secondary Mathematics.  
Provides prospective teachers with field-based experiences. Requires seminar attendance and participation of four hours per week in a school classroom.

EDUC 3612 CLASSROOM AND BEHAVIORAL MANAGEMENT  2 CR. (2 LEC.)  
Prerequisite: admission to teacher education.  
Corequisite: EDUC 4211 Practicum II.  
A study of various techniques used in classroom management and classroom presentations. Spatial, human, and cultural relationships are explored. Organization and planning are stressed.

EDUC 4211 PRACTICUM II  1 CR. (4 LAB)  
Prerequisite: admission to teacher education.  
Corequisites: EDUC 3612 Classroom and Behavioral Management and SPED 3022 Survey of Diverse Populations.  
Provides prospective teachers field-based experiences. Requires seminar attendance and P-12 classroom attendance and participation for four hours per week.

EDUC 4222 ASSESSMENT  2 CR. (2 LEC.)  
Prerequisite: admission to teacher education.  
Focuses on the decision-making skills required in developing authentic assessments appropriate for classroom use. The strengths and weaknesses of classroom evaluation procedures, both formal and informal, are examined. Candidates develop tests and projects designed for pupils with different learning styles. Rubrics are created for grading all assignments. Candidates develop fundamental statistical concepts and interpret both norm-referenced and criterion-referenced test results. A computerized gradebook program is examined.

EDUC 480A TEACHING IN THE ELEMENTARY AND SECONDARY SCHOOL  10 CR. (34 LAB)  
Prerequisite: admission to student internship.  
Corequisite: EDUC 4802 Seminar in Education.  
An intensive field experience that is the culmination of a bachelor's degree program in education. Internship is for students pursuing P-12 programs such as music. An internship of 34 hours per week.

EDUC 4802 SEMINAR IN EDUCATION  2 CR. (2 LEC.)  
Prerequisite: admission to student internship.  
Corequisite: EDUC 480A Teaching in the Elementary and Secondary School, or EDUC 490A Teaching in the Secondary School, or MLED 490A Teaching in the Middle Childhood School, or ECED 490A Early Childhood Education Internship.  
Capstone seminar emphasizes precepts of teacher leadership, refinement of teaching skills, diagnostic assessment, just treatment of children, the creation of purposeful classrooms, and marketability plans. Functions as a support group throughout internship.

EDUC 490A TEACHING IN THE SECONDARY SCHOOL  10 CR. (34 LAB)  
Prerequisite: admission to student internship.  
Corequisite: EDUC 4802 Seminar in Education.  
An intensive field experience that is a culmination of the bachelor's degree program in education. For students pursuing licensure at the secondary level. An internship of 34 hours per week.

EKG  Electrocardiography

EKG 1003 INTRODUCTION TO ELECTROCARDIOGRAPHY  3 CR. (2 LEC., 2 LAB)  
Integrates the fundamentals of cardiac anatomy and electrophysiology with electrocardiogram tracing and wave-form interpretation. A working knowledge of electrocardiography provided through classroom lecture and demonstration, as well as hands-on application in lab/clinical settings.
**ELEC Electronics**

**ELEC 1234 Fundamentals of Electricity** 4 CR. (2 LEC., 4 LAB)
- Prerequisite: MATH 0233 Beginning Algebra or higher level mathematics course, or exemption by placement.
- Corequisite: ELEC 1242 Introduction to Electronics Technology.

An overall study of the fundamental principles of AC and DC, Ohm’s law, and the power equation. Series, parallel, series-parallel circuits, and DC meters are introduced, and a study is made of the practical applications of mathematics related to electronics and electricity.

**ELEC 1242 Introduction to Electronics Technology** 2 CR. (1 LEC., 2 LAB)
- Corequisite: ELEC 1234 Fundamentals of electricity.

Introduces the basic terms, powers of ten usages, component identification, and fundamental circuit building required to be successful in the pursuit of electronics technology. The course requires the student to master the use of common electronic instruments in order to measure and troubleshoot circuits. Develops the knowledge and manipulative skills required to solder and de-solder electrical/electronic devices and circuit board mounted components according to prescribed standards.

**ELEC 1264 Industrial Electricity I** 4 CR. (2 LEC., 4 LAB)
- Fundamentals of motors and motor control. Includes switches, relays, transformers, three-phase power systems, DC motors, single-phase motors, three-phase motors, overload protection, and motor controllers. The National Electrical Code standards for all circuits are emphasized.

**ELEC 1353 Electrical Circuits and Components** 3 CR. (2 LEC., 2 LAB)
- Prerequisite: ELEC 1234 Fundamentals of Electricity.

An extension of Fundamentals of Electricity, going into more detail on how individual components react to AC and DC. Inductors, transformers, capacitors, R-C circuits, R-L circuits, R-L-C circuits, time constants, series-parallel resonant circuits, and filters are studied.

**ELEC 1394 Solid State** 4 CR. (2 LEC., 4 LAB)
- Prerequisite: ELEC 1234 Fundamentals of Electricity.

Solid-state circuitry, including characteristics of active and passive circuit components. Both DC and AC signal approximations are analyzed to determine correct circuit operation and common failure modes. Rectifier, regulator, and amplifier circuits plus Bipolar, J-FET, MOSFET, SCR, DIAC, and TRIAC circuits are included.

**ELEC 1724 PC Systems Troubleshooting** 4 CR. (2 LEC., 4 LAB)
- Prerequisite: Electronics Majors, ELEC 1864 Digital Fundamentals; Other Majors, ITC 1403 Operating Systems.

A presentation of the technology of today’s personal computers, including the installation and configuration of all major hardware components and their interaction with the PC’s operating system. Emphasis on diagnosis and repair of common PC system failures. Students completing this course are prepared to take a national certifying exam for PC technology.

**ELEC 1783 Industrial Electricity II** 3 CR. (2 LEC., 2 LAB)
- Prerequisite: ELEC 1264 Industrial Electricity I.

Covers industrial applications and troubleshooting of electronics. Subjects studied include: NEMA symbols, relay ladder logic, polyphase rectifiers,SCRs, TRIACs, thyristors, and motor speed control.

**ELEC 1864 Digital Fundamentals** 4 CR. (2 LEC., 4 LAB)
- Prerequisite: MATH 0233 Beginning Algebra or higher level mathematics course, or exemption by placement.

Basic concepts related to the operation of a typical microprocessor will be introduced and developed to include number systems, elementary digital circuits, and the internal structure of the INTEL 8088 microprocessor. Several assembly language programs will be completed to illustrate the 8088 instruction set and to exercise DOS and BIOS functions within a personal computer. Experience in designing and debugging computer programs at the machine level.
ELEC 190V ELECTRONICS WORK-BASED LEARNING 1-4 CR. (VARIABLE)
Prerequisite: consent of department head.
A comprehensive treatment of relevant work experience related to the student’s major field of study. Includes cooperative education, apprenticeships, extended job shadowing, internships, and any other systematic, planned work experience. Academic faculty and local employers work together with students to ensure the relationship between classroom instruction and work experience. The faculty sponsor approves the work experience and the number of hours of credit to be earned. May be repeated for a total of six hours.

ELEC 2254 VISUAL BASIC ELECTRONICS APPLICATIONS 4 CR. (2 LEC., 4 LAB)
Prerequisite: ELEC 1234 Fundamentals of Electricity, ELEC 1242 Introduction to Electronics Technology, and ELEC 1864 Digital Fundamentals.
Introduces the Visual Basic programming language and how it applies to the field of electronics. Programming assignments include applications specific to the electronics curriculum, interfacing circuits to the PC, and microcontroller and robotics applications.

ELEC 2513 PLC APPLICATIONS 3 CR. (2 LEC., 2 LAB)
Prerequisites: ELEC 1783 Industrial Electricity II and ELEC 1864 Digital Fundamentals.
Provides the engineer or technician with an overview of the selection, programming, operation, and capabilities/limitations of programmable logic controllers. Application examples presented define design requirements for input/output cards, memory requirements, scan time, update time, documentation, data highway/host computer interface, etc.

ELEC 2733 ADVANCED ELECTRONIC CIRCUITS 3 CR. (2 LEC., 2 LAB)
Prerequisite: ELEC 1394 Solid State.
Advanced electronic circuit analysis and troubleshooting. Positive and negative feedback circuits are covered including oscillators, operational amplifiers, tuned amplifiers, Class A, B, and C amplifiers.

ELEC 2754 COMMUNICATION SYSTEMS 4 CR. (2 LEC., 4 LAB)
Prerequisite: ELEC 1242 Introduction to Electronics Technology.
Prerequisite or corequisite: ELEC 2733 Advanced Electronic Circuits.
Covers AM and FM receiver theory, alignment and troubleshooting. Details theory and practical application of troubleshooting techniques as applied to superheterodyne receivers, audio amplifiers, and stereo systems.

ELEC 2843 DIGITAL COMMUNICATIONS 3 CR. (1 LEC., 4 LAB)
Prerequisite: ELEC 1864 Digital Fundamentals.
Integrates the fundamental principles and circuits learned in other electronic courses into a complete, complex electronic system. Provides experience in reorganizing and diagnosing symptoms in a complete system. Skills expected of a test technician using major test equipment are acquired in the laboratory work.

ELEC 290V ELECTRONICS: SPECIAL TOPICS 1-5 CR. (VARIABLE)
Prerequisite: consent of department head.
Designed to give special instruction for new and emerging topics in electronics that are not otherwise covered in the curriculum. Topics in these emerging technologies offered periodically based on recognized needs of the field and availability of instruction. May be repeated for a total of five hours.

ELEC 2933 INDUSTRIAL CONTROL SYSTEMS 3 CR. (1 LEC., 4 LAB)
Prerequisite: ELEC 2513 PLC Applications.
Provides theory and laboratory experience with sensors, transducers, and open/closed loop speed/position control of motors used in industry. AC/DC motor control with speed/position feedback is studied, and inverter/vector AC motor drives are configured and programmed in lab.

ELEC 299V ELECTRONICS: SPECIAL PROJECTS 1-3 CR. (VARIABLE)
Prerequisite: advanced electronics student and consent of department head.
Designed for the advanced electronics student who has completed or is enrolled in all other appropriate electronics courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated for a total of six hours.

ELEC 3303 MOTION CONTROL SYSTEM DESIGN 3 CR. (1 LEC., 4 LAB)
Prerequisites: ELEC 2933 Industrial Control Systems or consent of department head.
Covers design and optimal selection of electrical/mechanical power transmission components for servo
motion control systems. Students calculate the mass or weight inertia of typical machine loads and determine how a gearbox, pulley, lead screw, or other mechanism will affect the torque, speed, and horsepower required to move the load within the motion profile cycle time requirements. The calculated torque/speed/inertia required of the motor is used to select the proper size servo or vector motor and matching motor control.

ELEC 3314 SERVO MOTION CONTROL PROGRAMMING 4 CR. (1 LEC., 6 LAB)
Prerequisites: ELEC 2933 Industrial Control Systems and ELEC 2254 Visual BASIC Electronics Applications or consent of department head.
Covers configuration/tuning/programming of Mint servo drive: torque/current, speed and position PIDLoops. Student learns MintMT programming: structure, memory, arrays, data types, motion keywords, repeat constructs, decision/logic keywords and keyboard input/output display formatting. Cut-to-length or synchronized motion applications designed, using MintMT absolute/relative moves, servo motion scaling, homing and Inx/Outx subroutines using PC/HMI display/keyboard. Servo operator controls are built using PC/HMI: RS-232/485, CAN or Ethernet network protocols. Emphasis on selection of servo system components and design of servo motion programs to control typical industrial automated systems.

ELEC 3514 ADVANCED PLC CONTROL SYSTEMS 4 CR. (1 LEC., 6 LAB)
Prerequisite: ELEC 2513 PLC Applications or consent of department head.
Covers PLC control system design, selection, wiring, programming and trouble-shooting, using the SLC500 and/or MicroLogix PLC controls. Topics include: file/word/file transfers, masked move blocks, file/arithmetic/logic block instructions, FIFO/sequencer block, analog input/output, PID loop block config/tuning/trouble-shooting and PLC/PLC/PC data communications using: RS-232, DH-485, DeviceNet, Modbus, ControlNet or Ethernet. Emphasis on selection of PLC system components and the design/trouble-shooting of wiring/ladder logic PLC program to control typical industrial automated systems.

ELEC 3934 INVERTER/VECTOR DRIVE SYSTEMS APPLICATIONS 4 CR. (1 LEC., 6 LAB)
Prerequisites: ELEC 2933 Industrial Control Systems or consent of department head.
Covers the design, selection, programming, tuning and troubleshooting of inverter and open/closed loop vector motors/drives and related control systems. Networks of inverter/vector drives with PLC/PC control and data acquisition using ModBus and Ethernet are configured. Applications such as HVAC fan/pump with flow/pressure control, conveyor speed control, web tension control and load sharing using open/closed loop vector drives are studied. Emphasis on the design, programming and troubleshooting of inverter/vector motors/drives systems used in typical industrial automated systems.

ELEG Electrical Engineering

ELEG 2101 ELECTRIC CIRCUITS I LABORATORY 1 CR. (2 LAB)
Prerequisite or corequisite: ELEG 2103 Electric Circuits I.
Experimental investigation of the steady-state behavior of resistive circuits excited by DC sources. Topics include measurement procedures, resistive networks, Thevenin and Norton equivalents, power, and transient responses.

ELEG 2103 ELECTRIC CIRCUITS I 3 CR. (3 LEC.)
Prerequisite: MATH 2854 Calculus II.
Corequisite: ELEG 2101 Electric Circuits I Laboratory.

ELEG 2111 ELECTRIC CIRCUITS II LABORATORY 1 CR. (2 LAB)
Corequisite: ELEG 2113 Electric Circuits II.
Experimental investigation of the steady-state behavior of circuits excited by sinusoidal sources. Includes test and measurement equipment and techniques, single- and three-phase circuits, power in single- and three-phase circuits, transformers, and resonance.

ELEG 2113 ELECTRIC CIRCUITS II 3 CR. (3 LEC.)
Prerequisite: ELEG 2103 Electronic Circuits I.
Prerequisites or corequisites: MATH 2914 Differential Equations and ELEG 2111 Electric Circuits II Laboratory.
Introduction to complex numbers. Sinusoidal steady-state analysis of electric circuits, active, reactive, apparent, and complex power; balanced and unbalanced three-phase circuits, mutual inductance; the use of the Laplace Transform for electric circuit analysis, and two-port networks.

**ELEG 2903 Digital Systems I** 3 CR. (3 LEC.)
- An introduction to diodes and transistors, gates, binary arithmetic, combinational logic, sequential logic, registers, counters, memory, and computer organization.

**ELEG 2913 Digital Systems II** 3 CR. (3 LEC.)
- Prerequisite: ELEG 2903 Digital Systems I.
- A further study into diodes and transistors, gates, binary arithmetic, combinational logic, sequential logic, registers, counters, memory, and computer organization.

**EMT Emergency Medical Technology**

**EMT 1408 Emergency Medical Technology-Basic** 8 CR. (7.5 LEC., 2.5 LAB)
- Prerequisite: CPR Certification: American Heart Association “CPR for Healthcare Providers” or American Red Cross “CPR for the Professional Rescuer.”
- An introductory study of emergency medical service systems and the basic principles of emergency care. Through didactic and clinical instruction, the EMT-Basic student will be prepared to write the National Registry EMT-Basic written and practical exams.
- Students must demonstrate proficiency in the practical skills used in dealing with medical and trauma-related emergencies, such as airway management, patient assessment, spinal immobilization, oxygen therapy, defibrillation with the AED (automatic external defibrillator), and patient-assisted medication administration.

**ENGL English**

**ENGL 0163 Introduction to Writing** 3 CR. (3 LEC.)
- Prerequisite: required placement score.
- Instruction includes pre-writing activities, organization and development of ideas, revision for content and style, and editing for correction of grammar errors. Word choice, sentence structure and style, paragraph and short essay development are emphasized. Students must demonstrate established competencies in writing and editing to exit this course.

**ENGL 1201 College Writing Process** 1 CR. (1 LEC.)
- Prerequisite: ACT score of less than 19 and required placement score.
- Corequisite: ENGL 1203 Freshman English I.
- Provides basic instruction in writing process conventions and support for college writing and analysis of prose.

**ENGL 1203 Freshman English I** 3 CR. (3 LEC.)
- Prerequisite: ENGL 0163 Introduction to Writing or required placement score.
- Provides basic instruction in writing and analysis of prose. (ACTS: ENGL 1013)

**ENGL 1213 Freshman English II** 3 CR. (3 LEC.)
- Prerequisite: ENGL 1203 Freshman English I.
- Provides instruction in rhetoric, academic research, critical reading, and written analysis of text. (ACTS: ENGL 1023)

**ENGL 1233 Honors Composition** 3 CR. (3 LEC.)
- Prerequisites: 27 ACT (composite) and admission to the honors program, or consent of instructor and honors director.
- Advanced composition course for students admitted to the honors program that combines the outcomes of both ENGL 1203 and ENGL 1213. ENGL 1213 may not be taken for credit after completion of this course.

**ENGL 130V Language and Culture** 1-4 CR. (VARIABLE)
- Study of a specific world language and culture to increase cultural appreciation and basic language skills. Focus on the specific language and culture may vary each semester. May be repeated once for credit when topic differs.

**ENGL 2033 Cultural Studies** 3 CR. (3 LEC.)
- Prerequisite: ENGL 1213 Freshman English II.
- An introduction to the analysis of literature within diverse cultural frameworks.
ENGL 2763  
**BRITISH LITERATURE TO 1789**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition or consent of department head.  
A survey of major British works from the Old English period to the late eighteenth century. (ACTS: ENGL 2673)

ENGL 2773  
**BRITISH LITERATURE 1789 TO PRESENT**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition or consent of department head.  
Survey of major works of the British Isles from the late eighteenth century to the present. (ACTS: ENGL 2683)

ENGL 2783  
**AMERICAN LITERATURE TO 1865**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition or consent of department head.  
A survey of American literature from the seventeenth century until the mid-nineteenth century. (ACTS: ENGL 2653)

ENGL 2783H  
**AMERICAN LITERATURE TO 1865 (HONORS)**  
3 CR. (3 LEC.)  
Prerequisites: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition and acceptance into the honors program.  
For students admitted to the honors program. A survey of American literature from the seventeenth century until the mid-nineteenth century.

ENGL 2793  
**AMERICAN LITERATURE 1865 TO PRESENT**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition or consent of department head.  
A survey of American literature from the mid-nineteenth century to the present. (ACTS: ENGL 2663)

ENGL 2803  
**WORLD LITERATURE TO 1750**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition or consent of department head.  
A survey of western and non-western literature from the ancient world to the mid-eighteenth century. (ACTS: ENGL 2113)

ENGL 2803H  
**WORLD LITERATURE TO 1750 (HONORS)**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition and acceptance into the honors program.  
A survey of western and non-western literature from the ancient world to the mid-eighteenth century. Emphasizes interpretation of literary texts through student performance in communication (reading, writing, speaking, listening), critical thinking (analysis, synthesis, evaluation), and social interaction.

ENGL 2813  
**WORLD LITERATURE 1750 TO PRESENT**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition or consent of department head.  
Survey of western and non-western literature from mid-eighteenth century to the present. (ACTS: ENGL 2123)

ENGL 2813H  
**WORLD LITERATURE 1750 TO PRESENT (HONORS)**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition and acceptance into the honors program.  
A survey of western and non-western literature from the mid-eighteenth century to the present.

ENGL 2853  
**IMAGINATIVE WRITING**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1203 Freshman English I or ENGL 1233 Honors Composition or consent of instructor.  
For students interested in writing poetry and fiction. Designed to familiarize students with the nature and basic idioms of imaginative writing and to give the student a chance to be read and criticized in a workshop and conference format, with instructor and possibly with visiting authors. (ACTS: ENGL 2013)

ENGL 3003  
**HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II.  
The historical development of the English language from its Indo-European roots to the present day, with an emphasis on the developing nature of the language.

ENGL 3013  
**SEMINAR: BRITISH LITERATURE I**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 2033 Cultural Studies.
ENGL 3023 SEMINAR: BRITISH LITERATURE II 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
Critical study of canonical works of the British Isles from the late eighteenth century to the present.

ENGL 3033 SEMINAR: AMERICAN LITERATURE I 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
Critical study of canonical American works of the seventeenth to mid-nineteenth centuries.

ENGL 3043 SEMINAR: AMERICAN LITERATURE II 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
Critical study of canonical American works from the middle of the nineteenth century through the twenty-first century.

ENGL 3113 FICTION WORKSHOP 3 CR. (3 LEC.)
Prerequisite: ENGL 2853 Imaginative Writing or consent of instructor.
Advanced work and study in fiction writing, focusing on the techniques of writing novels and short stories, with critical examination of student work as well as relevant models. May be repeated once for credit.

ENGL 3123 POETRY WORKSHOP 3 CR. (3 LEC.)
Prerequisite: ENGL 2853 Imaginative Writing or consent of instructor.
Advanced work and study in poetry writing, focusing on technique and on critical examination of student work. May be repeated once for credit.

ENGL 3133 SCRIPT WORKSHOP 3 CR. (3 LEC.)
Prerequisite: ENGL 2853 Imaginative Writing or consent of instructor.
Advanced work and study in script writing, focusing on the techniques of writing scripts for film, television, the stage, and other areas, with critical examination of student work as well as relevant models. May be repeated once for credit.

ENGL 3143 SPECIAL TOPICS IN CREATIVE WRITING 3 CR. (3 LEC.)
Prerequisite: ENGL 2853 Imaginative Writing or consent of instructor.
Provides work and study in varied areas related to imaginative writing. Offerings include writing the graphic novel, writing science fiction, writing the independent film, writing ecofiction, writing historical fiction, and songwriting. May be repeated once for credit.

ENGL 3203 YOUNG ADULT LITERATURE 3 CR. (3 LEC.)
Prerequisites: admission to the teacher education program or consent of the director of English education and ENGL 2763 British Literature to 1789, or ENGL 2773 British Literature 1789 to Present, or ENGL 2783 American Literature to 1865, or ENGL 2793 American Literature 1865 to Present, or ENGL 2803 World Literature to 1750, or ENGL 2813 World Literature 1750 to present.
Prerequisite or corequisite: EDUC 3222 Practicum I and EDUC 3013 Human Development and Learning; or EDUC 4211 Practicum II.
Addresses selection and evaluation of appropriate materials based upon biological, sociocultural, psychological and developmental characteristics of young adults. Use of such materials, emphasizing gender-fair and multicultural resources is implemented. Analyzes and synthesizes the selection and teaching methods associated with literature that reflects the attitudes, interests, problems, and opportunities of young adults in contemporary society.

ENGL 3223 THE SHORT STORY 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
An intense study of the short story, focusing on period, thematic, or national contrasts or convergences. Topics will vary each semester.

ENGL 3233 THE NOVEL 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
An intense study of the novel, focusing on period, thematic, or national contrasts or convergences. Topics offered on a rotating basis may include the Gothic
novel, 1930s American novels, the war novel, the novel
of manners, and the romance novel.

**ENGL 3243 Drama** 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods.

An intense study of dramatic productions and texts, focusing on period, thematic, or national contrasts or convergences. Topics will vary each semester.

**ENGL 3303 Writing and the Teaching of Writing** 3 CR. (3 LEC.)
Prerequisites: admission to the teacher education program or consent of the director of English education and ENGL 2763 British Literature to 1789, or ENGL 2773 British Literature 1789 to Present, or ENGL 2783 American Literature to 1865, or ENGL 2793 American Literature 1865 to Present, or ENGL 2803 World Literature to 1750, or ENGL 2813 World Literature 1750 to present.

Prerequisites or corequisites: EDUC 3222 Practicum I and EDUC 3013 Human Development and Learning; or EDUC 4211 Practicum II.

Identifies and examines the multimodal texts that students create. Practical application of current pedagogical approaches, based on student-learning theory connected to the creation of texts, serves as the basis of this course. Emphasis on active learning and reflection.

**ENGL 3343 Poetry** 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods.

An intense study of poetry, focusing on period, thematic, or national contrasts or convergences. Topics will vary each semester.

**ENGL 3401 Publications Staff** 1 CR. (2 LAB)
Prerequisite: ENGL 2853 Imaginative Writing or consent of instructor.

APPLAUSE publications staff is a forum by which students of literary and visual arts can test the effects of their work on an audience. Provides guidance in planning, instigating, overseeing, and reviewing the production of APPLAUSE creative arts magazine. Students may enroll for both fall and spring semesters for a total of two credits per year; may be repeated for a total of four hours.

**ENGL 3403 Grammar and Language Awareness** 3 CR. (3 LEC.)
Prerequisites: admission to the teacher education program or consent of the director of English education and ENGL 2763 British Literature to 1789, or ENGL 2773 British Literature 1789 to Present, or ENGL 2783 American Literature to 1865, or ENGL 2793 American Literature 1865 to Present, or ENGL 2803 World Literature to 1750, or ENGL 2813 World Literature 1750 to present.

Surveys English grammars, including syntax, morphology, phonology; reviews language and semantics, diction and context; reviews contemporary usage and grammar issues; reviews grammar and language knowledge base required by teachers; demonstrates teaching methods that illustrate current theory and research.

**ENGL 3443 Literature of Diverse Cultures** 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies
Prerequisite or corequisite: RHET 3203 Textual Research Methods

Emphasizes literature outside of the traditional Western canon. Topics are offered on a rotating basis, and may include the following: African American literature, African literature, Asian literature, Chicano/a literature, and Native American literature.

**ENGL 3453 Women and Literature** 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.

Explores the writing of women in a variety of literary genres, time periods, and literatures. The course is variable, with different content each semester. May be repeated, when topics differ, for a total of nine hours.

**ENGL 3663 English Grammar** 3 CR. (3 LEC.)
Prerequisite or corequisite: ENGL 1213 Freshman English II.

An intense study of English grammar.

**ENGL 4103 Major Authors** 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.

Focuses on a major author of literary, historical, and/or cultural significance. Along with an intensive focus on the author’s work, a close analysis of their life
and times will be included. May be repeated, when topics differ, for a total of nine hours.

**ENGL 4123 Regional/Geographic Topics in Literature** 3 CR. (3 LEC.)
- Prerequisite: ENGL 2033 Cultural Studies.
- Prerequisite or corequisite: RHET 3203 Textual Research Methods.
- Focuses on literature of a specific geography or region. May be repeated, when topics differ, for a total of nine hours.

**ENGL 4203 Chaucer** 3 CR. (3 LEC.)
- Prerequisite: ENGL 2033 Cultural Studies.
- Prerequisite or corequisite: RHET 3203 Textual Research Methods.
- A reading-intensive course meant to introduce the student to the major works of Chaucer, as well as to a selection of critical theory and studies of the works. Readings of Chaucer will be from the Middle English text, and students will be required to become fluent in the language.

**ENGL 4213 Shakespeare** 3 CR. (3 LEC.)
- Prerequisites: ENGL 2033 Cultural Studies.
- Prerequisite or corequisite: RHET 3203 Textual Research Methods.
- A critical study of Shakespeare's major works, including selected comedies, tragedies, and histories. Shakespeare is a versatile source author, since his works are textually complex and widely read, offering opportunities for exploration into poetic and dramatic aspects of the works from many critical and historical perspectives.

**ENGL 4223 Seventeenth Century British Literature** 3 CR. (3 LEC.)
- Prerequisite: ENGL 2033 Cultural Studies.
- Prerequisite or corequisite: RHET 3203 Textual Research Methods.
- Selected poetry, prose, and plays from the Renaissance in Europe.

**ENGL 4243 Victorian Literature** 3 CR. (3 LEC.)
- Prerequisite: ENGL 2033 Cultural Studies.
- Prerequisite or corequisite: RHET 3203 Textual Research Methods.
- Acquaints students, through a survey of literary texts, with the traditions, beliefs, motifs, and common themes of the Victorian Period (1837-1901) in English Literature.
ENGL 4793 TWENTIETH CENTURY AMERICAN LITERATURE 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
Critical study of selected works of literature by twentieth-century American authors.

ENGL 4903 SPECIAL TOPICS IN LITERATURE 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
Critical study of literature not included in other course offerings. Topics vary, often crossing geographic and temporal lines and usually dealing with a specific genre or a theme.

ENGL 4913 SPECIAL TOPICS IN POPULAR CULTURE 3 CR. (3 LEC.)
Prerequisite: ENGL 2033 Cultural Studies.
Prerequisite or corequisite: RHET 3203 Textual Research Methods.
Focuses on in-depth study of a specific moment, figure, figures, or genre within popular culture. May be repeated, when topics differ, for a total of nine hours.

ENGL 493V ENGLISH INDEPENDENT STUDY 1-3 CR. (VARIABLE)
Prerequisites: senior standing, 15 hours of English, and consent of instructor.
For the student of superior ability who wishes to undertake research in the field. May be repeated for a total of three hours.

ENGL 4993 CAPSTONE 3 CR. (LEC.)
Prerequisites: senior standing, ENGL 2033 Cultural Studies, and RHET 3203 Textual Research Methods.
Students will synthesize, integrate, and/or apply their previous knowledge and skills in the creation of a 20 page paper project. The emphasis of the capstone experience is to demonstrate mastery rather than acquire new knowledge/skills. At the completion of the course students will share their work with the campus community.

ENGN  Engineering

ENGN 1111 INTRODUCTION TO ENGINEERING I 1 CR. (1 LEC., 1 LAB)
Introduction of the engineering profession to first-year students, emphasizing the professional and relevant computer skills.

ENGN 1121 INTRODUCTION TO ENGINEERING II 1 CR. (1 LEC., 1 LAB)
Prerequisite: ENGN 1111 Introduction to Engineering I.
Further study of the engineering profession to first year students. A semester project will be used to teach engineering principals.

ENGN 1022 ENGINEERING ANALYSIS 2 CR. (2 LEC.)
Prerequisite: MATH 1403 College Algebra or placement in higher math.
Introduction to engineering analysis using tools such as vectors, matrix algebra, problem solving, and computer programming.

ENGN 190V ENGINEERING WORK-BASED LEARNING 1-4 CR. (VARIABLE)
Prerequisite: consent of instructor or dean.
A comprehensive treatment of relevant work experience related to the student’s major field of study. Includes cooperative education, apprenticeships, extended job shadowing, internships and any other systematic, planned work experience. Academic faculty and local employers work together with students to ensure the relationship between classroom instruction and work experience. The dean approves the work experience and the number of hours of credit to be earned. May be repeated for a total of eight hours.

ENGN 2753 ENGINEERING STATICS 3 CR. (3 LEC.)
Prerequisite: MATH 2804 Calculus I.
Includes topics such as equilibrium of particles and rigid bodies, moments of forces, centroids, moments of inertia, analysis of structures, friction, and virtual work. Both scalar and vector formulations are used, and methods of computer solutions are introduced.

ENGN 2763 DYNAMICS 3 CR. (3 LEC.)
Prerequisite: ENGN 2753 Engineering Statics.
A continuation of ENGN 2753. Topics covered include kinematics and kinetics of particles and rigid bodies, work and energy, impulse, and momentum.
ENGN 2803 THERMODYNAMICS 3 CR. (3 LEC.)
Prerequisite: MATH 2804 Calculus I and PHYS 2903 University Physics I.
A study of the first and second laws of thermodynamics, including availability of energy; properties of liquids, gases and vapors; and nonflow and flow processes.

ENGN 290V WORK-BASED LEARNING II 1-4 CR. (VARIABLE)
Prerequisite: ENGN 190V Work-based Learning I and instructor or dean consent.
Work-based learning is a comprehensive treatment of relevant work experience related to the student's major field of study. It includes cooperative education, apprenticeships, extended job shadowing, internships and any other systematic, planned work experience. Academic faculty work with students to ensure the relationship between classroom instruction and work experience. May be repeated for a total of eight hours.

FIN  Finance
FIN 1523 PERSONAL FINANCE: THEORY AND PRACTICE 3 CR. (3 LEC.)
Introduces students to the role that consumer credit and savings play in the economy. Critical thinking and economic analysis are applied at an individual level to explore a variety of personal financial choices. Introduces the basic terminology, concepts, and practices of personal finance and provides the foundation needed to understand and discuss routine financial activities, and provide a solid foundation for future financial decisions.

FIN 3713 BUSINESS FINANCE 3 CR. (3 LEC.)
Prerequisite: ACCT 2813 Principles of Managerial Accounting, MATH 2403 Survey of Calculus or higher math, and admission to the College of Business, or consent of instructor.
Addresses legal forms of American business organizations and policies, methods, and institutions involved in financing businesses. Principles of financial management will be studied with emphasis on the corporation, including cash flows, securities, financial structures, expansion, and acquisitions.

FIN 3723 INVESTMENTS 3 CR. (3 LEC.)
Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor.
Focuses on security analysis and portfolio construction. Topics covered include risk and return, investment planning, securities and securities markets, and the efficient market hypothesis.

FIN 3733 FINANCIAL STATEMENT ANALYSIS 3 CR. (3 LEC.)
Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor.
The analysis and interpretation of financial statements. Effective financial statement evaluation examined from the perspective of managers, investors, and creditors. Pro forma statement development for effective financial management.

FIN 3813 MONEY, BANKING, AND FINANCIAL MARKETS 3 CR. (3 LEC.)
Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor.
A study of financial assets, finance intermediaries, money and capital markets, and their impact on economic systems. Examines the function and evolution of money, origin and development of depository institutions, economics and regulation of depository institutions, and functions of the Federal reserve system.

FIN 4203 INTERNATIONAL FINANCE 3 CR. (3 LEC.)
Prerequisites: MGMT 2963 Business Statistics, FIN 3713 Business Finance and admission to the College of Business, or consent of instructor.
A study of multinational financial management. Emphasis will be on exchange rates and currency markets, the international monetary system, interest rate parity, purchasing power parity, international money and capital markets, multinational capital budgeting, and international capital structures.

FIN 4313 CAPITAL BUDGETING 3 CR. (3 LEC.)
Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor.
Introduces the theory, methods, and concerns of capital budgeting. The purpose of this course is to develop a framework for analyzing a corporation's capital budgeting decisions with emphasis on various
techniques, risk in capital budgeting, the cost of capital, capital rationing, and external growth through mergers and acquisitions.

**FIN 4323 MANAGEMENT OF FINANCIAL INSTITUTIONS 3 CR. (3 LEC.)**
Prerequisite: FIN 3813 Money, Banking, and Financial Markets and admission to the College of Business, or consent of instructor.
Operation and management policies of depository financial institutions. Commercial bank management is stressed. Examines internal operation, regulation, and supervision of institutions studied.

**FIN 447V INDEPENDENT STUDY IN FINANCE 1-3 CR. (VARIABLE)**
Prerequisites: admission to the College of Business, FIN 3713 Business Finance, and approval of the instructor and department head.
Prerequisite or corequisite: may vary depending on topic.
Individual problems or topics in finance arranged in consultation with instructor. May be repeated for a total of six hours.

**FIN 457V SPECIAL TOPICS IN FINANCE 1-3 CR. (VARIABLE)**
Prerequisites: Admission to the College of Business or consent of instructor.
Prerequisite or corequisite: may vary depending on topic.
Topics and current issues of critical importance to the field of finance. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.

**FIN 4733 PRINCIPLES OF PORTFOLIO MANAGEMENT 3 CR. (3 LEC.)**
Prerequisite: FIN 3723 Investments and admission to the College of Business, or consent of instructor.
Advanced study of selecting and combining securities into a portfolio. Includes setting investment goals, diversification and risk reduction, capital market theory, and portfolio selection models. Focus is on managing risk and return. Advanced application of forming and managing a portfolio using the H. L. and Janelle Hembree Student Investment Portfolio Fund.

**FIN 4743 ADVANCED FINANCIAL MANAGEMENT 3 CR. (3 LEC.)**
Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor.
Emphasizes the application of financial techniques, tools, and principles to solve corporate financial management problems. Cases may be used.

**FIN 4773 DERIVATIVE SECURITIES AND MARKETS 3 CR. (3 LEC.)**
Prerequisite: FIN 3723 Investments and admission to the College of Business, or consent of instructor.
Studies the risk allocation function of derivative financial securities and markets from the perspective of market users. It includes hedging and trading strategies, pricing relationships, and the roles of government regulation.

**FORL **Foreign Language**

**FORL 130V LANGUAGE AND CULTURE 1-4 CR. (VARIABLE)**
Study of a specific world language and culture to increase cultural appreciation and basic language skills. Focus on the specific language and culture may vary each semester. May be repeated once for credit when topic differs.

**FORL 1322, 1332 BEGINNING CONVERSATIONAL SPANISH I, II 2 CR. (2 LEC.)**
Prerequisite: FORL 1322 is a prerequisite for FORL 1332.
Foundation courses in basic Spanish language skills, with emphasis on communication. Combined courses are equivalent to SPAN 1304 Beginning Spanish I.

**FORL 2313 PORTUGUESE FOR SPANISH SPEAKERS 3 CR. (3 LEC.)**
Prerequisite: SPAN 2303 or consent of department head.
The development of Portuguese language skills, including listening comprehension, speaking, reading, writing, and cultural insight for those who have a working knowledge of Spanish or another Romance language. Emphasis is on communication.
FORL 2552 LANGUAGE PRACTICE  2 CR. (2 LAB)
Prerequisite: FREN 1314 Beginning French II, or
GERM 1314 Beginning German II, or SPAN 1314
Beginning Spanish II, or consent of instructor.
Supports and enhances communication skills and
increases vocabulary in the specified language.

FORL 299V
SPANISH: SPECIAL PROJECTS  1-3 CR. (VARIABLE)
Prerequisite: consent of instructor or dean.
Designed for advanced Spanish students who have
completed or are enrolled in all other appropriate
Spanish courses offered at UAFS. A learning contract
must be prepared and agreed upon by each student,
the faculty advisor, and the dean.

FORL 4313 SECOND LANGUAGE
TEACHING METHODS  3 CR. (3 LEC.)
Prerequisite: junior standing or consent of the
department head.
Comprehensive approach to curriculum design,
instruction, and assessment of second language
programs combining theory and practice.

FORL 4323 SECOND LANGUAGE
ACQUISITION  3 CR. (3 LEC.)
Prerequisite: junior standing or consent of the
department head.
Important theories of and research in second
language acquisition (SLA), similarities and differences
between first and second language acquisition, and the
relevance of SLA to the second language classroom.

FORL 4333 SECOND LANGUAGE
ASSESSMENT  3 CR. (3 LEC.)
Prerequisite: junior standing or consent of the
department head.
Current principles and practices used to assess
communicative language skills in a second language.
Assessment reflects real-world language use, or
meaningful communication outside the assessment
situation.

FORL 4343 TEACHING PEOPLE
OF OTHER CULTURES  3 CR. (3 LEC.)
Prerequisite: junior standing or consent of the
department head.
Issues that non-native speakers of English and
people from other cultures face when entering the
mainstream US school system or the professional
world. Techniques and activities to incorporate cultural
diversity in the learning environment and assist
students from differing backgrounds.

FREN  French

FREN 1304 BEGINNING
FRENCH I  4 CR. (3 LEC., 2 LAB)
Foundation course in the fundamental French
language skills—listening comprehension, speaking,
reading, writing, and cultural insight with emphasis on
communication. (ACTS: FREN 1013)

FREN 1314 BEGINNING
FRENCH II  4 CR. (3 LEC., 2 LAB)
Prerequisite: FREN 1304 Beginning French I or
required placement score.
Foundation course in the fundamental French
language skills—listening comprehension, speaking,
reading, writing, and cultural insight. Continues the
work of FREN 1304. Emphasis is on communication.
(ACTS: FREN 1023)

FREN 2303 INTERMEDIATE
FRENCH I  3 CR. (3 LEC.)
Prerequisite: FREN 1314 Beginning French II or
required placement score.
Continues the development of French language
skills—listening comprehension, speaking, reading,
writing, and cultural insight. (ACTS: FREN 2013)

FREN 2313 INTERMEDIATE
FRENCH II  3 CR. (3 LEC.)
Prerequisite: FREN 2303 Intermediate French I or
required placement score.
Continues the development of French language
skills—listening comprehension, speaking, reading,
writing, and cultural insight. (ACTS: FREN 2023)

GEOG  Geography

GEOG 2753 WORLD REGIONAL
GEOGRAPHY  3 CR. (3 LEC.)
Examines the countries of the world, focusing on
regional geographical factors which have influenced
the direction and extent of their development. (ACTS:
GEOG 2103)
**GEOG 2753H WORLD REGIONAL GEOGRAPHY (HONORS)** 3 CR. (3 LEC.)
Prerequisite or corequisite: HONR 1101
Introduction to Honors International Studies.
Examines the countries of the world, focusing on regional geographical factors which have influenced the direction and extent of their development. Includes scholarly analysis of the geographical factors underlying international relations and guiding political interactions, both past and present.

**GEOG 2763 PHYSICAL GEOGRAPHY** 3 CR. (3 LEC.)
A survey of the spatial patterns of the earth's landforms, the processes of shaping them and humans' interaction with these landforms.

**GEOG 2773 HUMAN GEOGRAPHY** 3 CR. (3 LEC.)
A survey of the distribution of the people and cultures on earth.

**GEOG 3103 GEOGRAPHY OF GLOBALIZATION** 3 CR. (3 LEC.)
Prerequisite: GEOG 2753 World Regional Geography or GEOG 2773 Human Geography.
A survey of the phenomenon of globalization from the ancient world to the global interconnectivity of the world today.

**GEOG 3113 GEOGRAPHY OF INTERNATIONAL MIGRATION** 3 CR. (3 LEC.)
Prerequisite: GEOG 2753 World Regional Geography or GEOG 2773 Human Geography.
A survey of the movement of peoples across the earth from/to Africa, Asia, Europe, Australia and the Americas, including types of migration, laws and regulations, and individual migration.

**GEOL Geology**

**GEOL 1251 PHYSICAL GEOLOGY LABORATORY** 1 CR. (2 LAB)
Prerequisite or corequisite: GEOL 1253 Physical Geology.
Covers minerals, rocks, fossils, seismograms, topographic and geologic maps, and aerial photographs.

**GEOL 1253 PHYSICAL GEOLOGY** 3 CR. (3 LEC.)
Prerequisite or corequisite: GEOL 1251 Physical Geology Laboratory
Introduction to geology involving the survey of physical features of the Earth and the forces which modify its surface and interior. (ACTS: GEOL 1114; must have GEOL 1253/1251)

**GEOL 2311 MINERALS AND ROCKS LABORATORY** 1 CR. (2 LAB)
Prerequisites: GEOL 1253/1251 Physical Geology/Lab or PHSC 2653/2651 Earth Science/Lab.
Corequisite: GEOL 2313 Minerals and Rocks.
Laboratory analysis and identification of solid materials that make up the Earth's crust including minerals, rocks, and sediments. Major topics include rock and mineral composition, texture, and structure, including geologic environments of formation. Rock and mineral hand specimen classification and identification techniques are emphasized.

**GEOL 2313 MINERALS AND ROCKS** 3 CR. (3 LEC.)
Prerequisites: GEOL 1253/1251 Physical Geology/Lab or PHSC 2653/2651 Earth Science/Lab.
Corequisite: GEOL 2311 Minerals and Rocks Laboratory.
The study of solid materials that make up the Earth's crust including minerals, rocks, and sediments. Major topics include rock and mineral composition, texture, and structure, including geologic environments of formation. Rock and mineral hand specimen classification and identification techniques are emphasized.

**GEOL 3261 HISTORICAL GEOLOGY LABORATORY** 1 CR. (2 LAB)
Prerequisite or corequisite: GEOL 3263 Historical Geology.
Studies include the geologic time scale, fossils, sediments and sedimentary rocks, minerals, igneous rocks, geologic maps, and radiometric dating methods.
GEOL 3263
HISTORICAL GEOLOGY 3 CR. (3 LEC.)
Prerequisite or corequisite: GEOL 1253 Physical Geology, or PHSC 2653 Earth Science; and junior standing.
A study of changes in the Earth and its life forms over time using the methods developed in paleontology, paleoclimatology, and paleoseismology.

GEOL 3403
STRUCTURAL GEOLOGY 3 CR. (3 LEC.)
Prerequisites: GEOL 1253/1251 Physical Geology/ Lab or junior standing.
Survey of deformational features and their geological significance in the crust of the Earth. The content of the course deals with understanding the principles of crustal deformation, plate tectonics, kinematics, stress and strain, and construction of geological maps used in structural analysis.

GEOL 3833
ENVIRONMENTAL GEOLOGY 3 CR. (3 LEC.)
Prerequisite: junior standing.
The study of Earth based on geologic concepts relevant to current environmental issues. Geologic principles are used to define underlying problems related to water resources, pollution, natural hazards, waste disposal, energy, and mineral resources. The course is for undergraduate students in earth and environmental sciences, biology, and those preparing to teach high school or middle school earth sciences.

GERM German
GERM 1304
BEGINNING GERMAN I 4 CR. (3 LEC., 2 LAB)
Foundation course in the fundamental German language skills—listening comprehension, speaking, reading, writing, and cultural insight with emphasis on communication. (ACTS: GERM 1013)

GERM 1314
BEGINNING GERMAN II 4 CR. (3 LEC. 2 LAB.)
Prerequisite: GERM 1304 Beginning German I or required placement score.
Foundation course in the fundamental German language skills—listening comprehension, speaking, reading, writing, and cultural insight. Continues the work of GERM 1304. Emphasis is on communication. (ACTS: GERM 1023)

GERM 2303
INTERMEDIATE GERMAN I 3 CR. (3 LEC.)
Prerequisite: GERM 1314 Beginning German II or required placement score.
Continues the development of German communication skills—listening comprehension, speaking, reading, writing and cultural insight. (ACTS: GERM 2013)

GERM 2313
INTERMEDIATE GERMAN II 3 CR. (3 LEC.)
Prerequisite: GERM 2303 Intermediate German I or required placement score.
Continues the development of German communication skills—listening comprehension, speaking, reading, writing and cultural insight. (ACTS: GERM 2023)

GIPM General Industrial Plant Maintenance
GIPM 1283 HYDRAULICS AND PNEUMATICS 3 CR. (3 LEC.)
A study of the basic industrial fluid power systems common to the field of automation, including basic principles, components, standards, symbols, circuits and troubleshooting of hydraulic and pneumatic systems. The proper selection and safe operation of components and equipment is a mandatory requirement of this course.

GIPM 1334 MAINTENANCE OF PLUMBING SYSTEMS 4 CR. (3 LEC., 2 LAB)
Emphasis is placed on piping systems, fixtures, faucets, and reducing, and relief valves. Application of this knowledge to simulated maintenance activities will be taught in accordance with the National Plumbing Code.

GRDS Graphic Design
GRDS 1001 ADMISSIONS PORTFOLIO 1 CR. (1 LEC.)
Prerequisites: ART 1213 2-D Design, ART 1313 Drawing, ART 1223 Digital Imaging, or consent of instructor(s).
Corequisites: ART 1203 Color, ART 1403 3-D Design and GRDS 1103 Introduction to Typography.
Students who wish to be accepted into the Graphic Design program are required to submit a comprehensive portfolio of projects from Foundations courses. Students must pass this course to be admitted into the Graphic Design program.

**GRDS 1103 INTRODUCTION TO TYPOGRAPHY 3 CR. (2 LEC., 4 LAB)**
Prerequisites: ART 1213 2-D Design, ART 1313 Drawing, and ART 1223 Digital Imaging, or consent of instructor.
Corequisites: ART 1203 Color and ART 1403 3-D Design.
An introduction to design and aesthetic issues concerning type and its use. Type measurement, typography design, technical issues -relating to type and production, and a survey of the history of type are covered. Projects involve type design issues, problem solving, and deadlines.

**GRDS 2103 ADVANCED TYPOGRAPHY 3 CR. (2 LEC., 4 LAB)**
Prerequisites: GRDS 2303 Graphic Design and GRDS 2243 Digital Illustration, or consent of instructor.
Explores advanced typographic techniques, including the digital mechanics of kerning, tracking, leading, special characters, ligatures, punctuation, font and color choices. Projects simultaneously target minute details and overall effect of sophisticated type handling. Visual order, type hierarchy, symbolism, and cultural aspects of type design are emphasized.

**GRDS 2243 DIGITAL ILLUSTRATION 3 CR. (2 LEC., 4 LAB)**
Prerequisites: GRDS 1001 Admissions Portfolio or consent of Instructor.
Corequisite: GRDS 2303 Graphic Design.
Introduces the student to software applications used in the execution of various types of digital illustration. One, two, and multi-color illustration projects are covered, as well as exporting, printing, scanners, and color printers. Projects involve illustration issues, problem solving, and deadlines.

**GRDS 2253 WEB DESIGN I 3 CR. (2 LEC., 4 LAB)**
Prerequisites: ART 1223 Digital Imaging, GRDS 2303 Graphic Design, and GRDS 2243 Digital Illustration.
Introduces technical and aesthetic considerations concerning website design. Current standard language editors and web styling are incorporated. Imaging, typographic, and color issues are addressed. Assigned projects are deadline-driven and involve the creation of basic websites.

**GRDS 2303 GRAPHIC DESIGN 3 CR. (2 LEC., 4 LAB)**
Prerequisites: GRDS 2001 or consent of instructor. Corequisite: GRDS 2423 Digital Illustration.
Introduces the creative processes, critical thought, and methodology specifically used in the creation of visual communication. Covers a broad scope of design methods and practices (e.g., type, hand generated art, photography, sculpture, collage) to give the students an understanding design styles.

**GRDS 2343 PRINT AND PUBLICATION DESIGN 3 CR. (2 LEC., 4 LAB)**
Prerequisites: GRDS 2303 Graphic Design and GRDS 2243 Digital Illustration, or consent of instructor.
Introduces concepts, techniques, and strategies in the design and production of various types of printed publications, from business cards to multiple-page documents. Page layout and organization schemes are covered, as well as continuing the study of typography, color, proofreading, problem solving, deadlines, and printing/output issues.

**GRDS 2503 ILLUSTRATION TECHNIQUES 3 CR. (2 LEC., 4 LAB)**
Prerequisites: GRDS 1001 Admissions Portfolio or consent of instructor.
Elective course introducing the student to the steps necessary for the execution of various types of illustration, including, but not limited to, technical, editorial, spot, cover, and design. Emphasis is on technical proficiency as well as conceptual solutions to illustration problems. Traditional and non-traditional media are covered. Design and drawing skills are prerequisite.

**GRDS 299V GRAPHIC DESIGN SPECIAL PROJECTS 1-3 CR. (VARIABLE)**
Prerequisites or corequisites: advanced standing and consent of instructor, -dean, or provost.
An individual project in graphic design areas offered on an arranged basis. Projects and deadlines are determined by the student and instructor. May be repeated when topics differ, for a total of six hours.

**GRDS 3223 DIGITAL PHOTOGRAPHY 3 CR. (2 LEC., 4 LAB)**
Prerequisite: ART 1223 Digital Imaging or consent of instructor.
Explores digital image creation and digital
darkroom technologies. Students learn possibilities and limitations of digital cameras, processing images in terms of photo-editing and manipulation, color managements and workflow, and batch-processing techniques. Output technologies, such as film, inkjet printers, dye-sublimation and prepress preparation are discussed.

GRDS 3243 WEB DESIGN II 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 2253 Web Design I and GRDS 2103 Advanced Typography, or consent of instructor.
Builds upon the foundation established in previous web class. Covers types of websites, planning and managing website production, team building, organization, and site testing. Projects involve collaboration, problem solving, and deadlines.

GRDS 3263 ADVANCED DIGITAL PHOTOGRAPHY 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 3223 Digital Photography or consent of instructor.
Explores the use of photography in artistic expression, journalistic documentation, and visual design narrative. Lighting, advanced post print processes, and photography as business is covered.

GRDS 3273 MOTION DESIGN 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 2253 Web Design I or consent of instructor.
Explores motion for graphic design using 2D and 3D animation, design elements, video and sound design. The projects will explore elements of storytelling, design over time and technical considerations using standard professional methods. Media will be delivered to the screen via authoring for current replay mediums and the web.

GRDS 3313 CREATIVE PROCESS IN DESIGN 3 CR. (2 LEC., 4 LAB)
Prerequisite: GRDS 2213 Web Design, GRDS 2103 Advanced Typography, and GRDS 2343 Print Design, or consent of instructor.
Introduces the use of multiple and varied approaches to visual problem solving. Investigation into alternate creative thinking techniques is explored. Various creative thinkers from the past and present are surveyed and analyzed. Projects involve research, collaboration, and problem solving.

GRDS 3323 PRODUCTION MANAGEMENT/PREPRESS 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 3403 Advertising Design I and GRDS 3243 Web Design II or consent of instructor.
Introduces advanced production issues that involve print media, including spot-color and process color issues. Ink, paper choices, prepress production and printing issues are covered, along with project management from conception to final output. Solving complex design and production problems encountered in dealing with clients, printers and deadlines are important components. Projects involve multiple-page designs and include collaboration and teamwork training.

GRDS 3403 ADVERTISING DESIGN I 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 2103 Advanced Typography, GRDS 2343 Print & Publication Design, and GRDS 2253 Web Design I, or consent of instructor.
Introduces projects and issues involved in advertising design. Includes work on advertising projects in various media, such as newspaper, magazine, outdoor, and electronic media. The creation of thumbnails and computer comps are covered, as well as headline, subhead and copy writing. Projects involve collaboration, problem solving, and deadlines.

GRDS 3503 ADVANCED ILLUSTRATION 3 CR. (2 LEC., 4 LAB)
Prerequisite: GRDS 2243 Digital illustration or consent of instructor.
Expands on the media explorations from Illustration Techniques, and emphasizes the conceptual and narrative aspects of illustration. Projects focus on communicating to specific audience through creative problem solving. Conceptual exercises foster innovation and originality. Traditional and digital media are examined for their unique illustration possibilities. Advanced drawing, design, color, and digital illustration and imaging skills required.

GRDS 3603 PACKAGING DESIGN 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 3403 Advertising Design I or consent of instructor.
Prerequisite or corequisite: GRDS 3323 Production Management/Prepress.
Introduces projects and issues involved in packaging design, employing various design solutions to solve three-dimensional problems. The creation of
thumbnails and computer comps are covered as well as product packaging, point-of-purchase displays, and trade show booth design. Projects involve collaboration, problem solving, and deadlines.

GRDS 3623 FINE PRINTING AND BOOKMAKING 3 CR. (2 LEC., 4 LAB)
Prerequisite: ART 2303 Introduction to Letterpress.
Employs advanced letterpress, bookmaking, and other production methods, and explores contemporary interpretations of the book as a vehicle for sequential/narrative design. Emphasizes mature dimensional idea generation, sequential consistency, and media choices. Projects include handmade bookbinding techniques, and skilled letterpress printing.

GRDS 3633 ADVANCED FINE PRINTING AND BOOKMAKING 3 CR. (2 LEC., 4 LAB)
Prerequisite: GRDS 3623 Fine Printing and Bookmaking, or consent of instructor.
Expands the exploration of various advanced concepts and practices in the art and design of printed matter using letter press (relief), especially in relation to the production of books. Students will conceive, design and construct their own books using a variety of printing techniques to enhance their professional portfolios.

GRDS 372V GRAPHIC DESIGN INTERNSHIP 3 OR 6 CR. (VARIABLE)
Prerequisites: GRDS 2103 Advanced Typography, GRDS 2343 Print Design, and consent of instructor.
Places students in a working environment to gain on-the-job experience. Workplace locals include design studio, corporation, advertising agency, etc., with supervised employment and observation. The length of the internship will be either 120 or 240 clock hours and is typically completed during a fall, spring, or summer semester.

GRDS 399V ADVANCED GRAPHIC DESIGN SPECIAL PROJECTS 1-3 CR. (VARIABLE)
Prerequisites: junior or senior standing and consent of instructor and department head.
An individual project in graphic design areas offered on an arranged basis. Projects and deadlines are determined by the student and instructor. May be repeated when topics differ for a total of six hours.

GRDS 4313 IDENTITY DESIGN 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 3323 Production Management/Prepress and GRDS 3603 Packaging Design, or consent of instructor.
Introduces the student to projects and issues involved with branding and creating a complete corporate identity, including logo, letterhead and business cards, interior and exterior sign systems, copy writing, advertisement, collateral material, brochure and/or annual report, and rationale. Production and printing issues encountered are also addressed. Projects involve collaboration, problem solving, and deadlines.

GRDS 4323 GRAPHIC DESIGN BUSINESS PRACTICES 3 CR. (2 LEC., 4 STU.)
Prerequisites: GRDS 3323 Production Management/Prepress and GRDS 3603 Packaging Design, or consent of instructor.
Prepares the advanced graphic design student to enter the profession by focusing on business practices such as portfolio preparation, starting a design business, successful freelancing and pricing, strategies for landing design jobs, professional relationships, fees and contracts, managing large projects, copyright, trademark, and ethical issues.

GRDS 4403 ADVERTISING DESIGN II 3 CR. (2 LEC., 4 LAB)
Prerequisites: GRDS 3403 Advertising Design I or consent of instructor.
Classroom structure re-creates the real-world work environment encountered at advertising agencies; takes projects from conceptual stage, through comprehensives, to presentation to the client. Advertising for newspaper, magazine, outdoor, direct mail, television, radio, and Web is covered as well as headline, subhead, and copywriting within advertising campaigns, photography direction, production, and printing issues. Projects involved are addressed. Projects involve collaboration, problem solving, and deadlines.

GRDS 4914 GRAPHIC DESIGN SENIOR THESIS 4 CR. (IND STU.)
Prerequisites: GRDS 4313 Identity Design and GRDS 4323 Graphic Design Business Practices.
Corequisite: GRDS 4923 Graphic Design Senior Seminar.
Independent, directed study identifying an area of critical inquiry that best combines personal creativity, academic achievement, and professional ambition. The thesis begins with a proposal, supported by research and analysis of the problem or project, and culminates with a written and oral presentation to accompany an exhibition of the final work.

**GRDS 4923 GRAPHIC DESIGN SENIOR SEMINAR**

3 CR. (3 LEC.)

Prerequisites: GRDS 4313 Identity Design and GRDS 4323 Graphic Design Business Practices.

Corequisite: GRDS 4914 Graphic Design Senior Thesis.

A companion course to Graphic Design Senior Thesis. Includes the research that leads to Senior thesis development, and culminates with a written research paper that supports the Thesis. At the end of the semester, students will make an oral presentation based on their research. This presentation will accompany the Thesis exhibition. Evaluation of the paper, the presentation and the exhibition will be made by the entire full-time graphic design faculty.

**HIST  History**

**HIST 1123 CIVILIZATIONS OF THE WORLD TO 1500**

3 CR. (3 LEC.)

An introduction to major civilizations of the world to 1500. (ACTS: HIST 1113)

**HIST 1133 CIVILIZATIONS OF THE WORLD SINCE 1500**

3 CR. (3 LEC.)

An introduction to major civilizations of the world since 1500. (ACTS: HIST 1123)

**HIST 1133H CIVILIZATIONS OF THE WORLD SINCE 1500 (HONORS)**

3 CR. (3 LEC.)

Prerequisite or corequisite: HONR 1101 Introduction to Honors International Studies.

An introduction to major civilizations of the world since 1500 with an additional emphasis on interaction between western and non-western cultures.

**HIST 2753 UNITED STATES HISTORY I**

3 CR. (3 LEC.)

The history of the United States from colonial times to 1877. It is not necessary to take the second course, HIST 2763, to receive credit for the first course. (ACTS: HIST 2113)

**HIST 2763 UNITED STATES HISTORY II**

3 CR. (3 LEC.)

A continuation of United States history, from 1877 to the present. It is not necessary to take HIST 2753 to receive credit for HIST 2763. (ACTS: HIST 2123)

**HIST 2763H UNITED STATES HISTORY II (HONORS)**

3 CR. (3 LEC.)

Prerequisite: acceptance into the honors program.

Covers the development of the United States from 1862 to the present. The political development along with the industrial growth of the United States and the international relations of the period is emphasized. In the honors section, all of the above will be discussed in the light of their impact on society.

**HIST 3053 HISTORY OF MODERN SCIENCE**

3 CR. (3 LEC.)

Prerequisite: junior standing or consent of the instructor.

Addresses the major events and personalities in the history of science beginning with Copernicus and continuing to the present. Discusses the high points in the physical and biological sciences that have contributed significantly to the way we view our world. Subjects will be viewed in light of how they have affected mankind and society.

**HIST 3063 HISTORY OF TECHNOLOGY IN SOCIETY**

3 CR. (3 LEC.)

Prerequisite: junior standing or consent of the instructor.

The history of technology and its impact on societies and cultures, with special emphasis on western developments since the Industrial Revolution.

**HIST 3103 HISTORY OF MEDIEVAL CIVILIZATION**

3 CR. (3 LEC.)

A study of the social class structure and Christianity in forming the institutions of medieval civilization (c. A.D. 1000-1350).

**HIST 3113 THE ANCIENT MEDITERRANEAN WORLD**

3 CR. (3 LEC.)

Prerequisite: HIST 1123 Civilizations of the World to 1500.

The study of the ancient Mediterranean cultures of Egypt, the Middle East, and Greece to the Roman conquests.
HIST 3123 THE ROMAN WORLD  3 CR. (3 LEC.)
Prerequisite: HIST 1123 Civilizations of the World to 1500.
The study of the Roman world from the rise of the
Republic through the fall of the Empire.

HIST 3133 THE RENAISSANCE  3 CR. (3 LEC.)
Prerequisite: HIST 1133 Civilizations of the World
Since 1500.
The study of European history from 1350-1550,
concentrating on art, literature, music, science,
political development, and the close of the
Middle Ages.

HIST 3143 THE PROTESTANT
REFORMATION  3 CR. (3 LEC.)
Prerequisite: HIST 1133 Civilizations of the World
Since 1500.
The study of the Protestant Reformation and
its impact on Europe, beginning in Germany and
spreading to England, along with the responses of the
Roman Catholic Church and subsequent national
conflicts through the Thirty Years' War.

HIST 3203 HISTORY OF
ENGLAND TO 1714  3 CR. (3 LEC.)
The period from the earliest times to the end of the
Stuart dynasty.

HIST 3213 ENGLAND SINCE 1714  3 CR. (3 LEC.)
Prerequisites: ENGL 1213 Freshman English II,
HIST 1123 Civilizations of the World to 1500, or
HIST 1133 Civilizations of the World since 1500.
The history of England and the British Empire from
the reign of George I through the 20th Century.

HIST 3303 TWENTIETH CENTURY EUROPE  3 CR. (3 LEC.)
European history in the twentieth century.

HIST 3403 COLONIAL AMERICA TO 1763  3 CR. (3 LEC.)
Prerequisites: ENGL 1213 Freshman English II,
HIST 2753 United States History I or HIST 2763
United States History II.
The study of the European colonizations of North
America to 1763.

HIST 3413 AMERICAN REVOLUTION,
1763-1787  3 CR. (3 LEC.)
The study of Colonial Society in 1763, British
imperial policy and the American response, the war for
independence, effects of the Revolution on American
ideas and institutions.

HIST 3423 THE NEW REPUBLIC:
THE U.S., 1787-1824  3 CR. (3 LEC.)
The formation of the Constitution, the emergence
of American political institutions, economic and social
development, and nationalism.

HIST 3433 AGE OF JACKSON:
THE U.S., 1824-1848  3 CR. (3 LEC.)
The development of democracy in the Jacksonian
period, social and cultural aspects of American life, and
westward movement, and the Mexican War.

HIST 3443 CIVIL WAR AND
RECONSTRUCTION, 1848-1876  3 CR. (3 LEC.)
The origins of the American Civil War, its course,
and subsequent efforts at reconciling the North and
South. Emphasis on the social, economic, and cultural
background to the war and its impact on American
society.

HIST 3453 THE GILDED AGE:
THE U.S., 1876-1900  3 CR. (3 LEC.)
United States history from the end of
Reconstruction through the presidential administration
of William McKinley. Emphasizes the changing
color of America in this era, including the farmers’
revolt, industrialization, foreign affairs, and major
social trends.

HIST 3463 U.S. HISTORY, 1900-1945  3 CR. (3 LEC.)
The political, economic, social, and diplomatic
development of the United States between 1900 and
1945.

HIST 3473 U.S. HISTORY, 1945-PRESENT  3 CR. (3 LEC.)
The political, economic, social, and diplomatic
development of the United States since 1945.

HIST 3503 HISTORY OF LATIN AMERICA:
THE REPUBLICAN PERIOD  3 CR. (3 LEC.)
Formation of the Latin American countries stressing
political, economic, social, and cultural factors, as well
as the role of Latin America in world affairs.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>HIST 3513</td>
<td>Russia Since 1855</td>
<td>3 CR.</td>
<td>Prerequisites: ENGL 1213 Freshman English II and one of the following: HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500. The study of Russia from Alexander II through the rise and eventual collapse of the Soviet Union.</td>
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<tr>
<td>HIST 3603</td>
<td>Pre-Colonial Africa to 1900</td>
<td>3 CR.</td>
<td>Prerequisites: ENGL 1213 Freshman English II and one of the following: HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500. The history of Africa from the earliest times to beginning of European imperial control.</td>
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<tr>
<td>HIST 3613</td>
<td>Colonial Africa</td>
<td>3 CR.</td>
<td>Prerequisites: ENGL 1213 Freshman English II and one of the following: HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500. Examines the causes of European imperialism in Africa, the African reaction to European colonialism, and the impact of colonial rule on Africa.</td>
</tr>
<tr>
<td>HIST 3623</td>
<td>Contemporary Africa</td>
<td>3 CR.</td>
<td>Prerequisites: ENGL 1213 Freshman English II and one of the following: HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500. Study of postcolonial Africa with emphasis on the socio-cultural, political, and economic transformations since the end of colonial rule.</td>
</tr>
<tr>
<td>HIST 3803</td>
<td>Methods of Historical Research</td>
<td>3 CR.</td>
<td>Prerequisite: 12 hours of history. Techniques of historical research, critical analysis of historical texts, and written and oral presentation of research results and analysis.</td>
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<tr>
<td>HIST 3903</td>
<td>Methods of Historic Site Interpretation</td>
<td>3 CR. (2 LEC., 2 LAB)</td>
<td>Prerequisite: ENGL 1213 Freshman English II. An overview of the challenges, methods, and unique aspects of interpreting historic sites.</td>
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<td>HIST 4113</td>
<td>The American West: Trans-Mississippi</td>
<td>3 CR.</td>
<td>Study of westward expansion of the U. S. including penetration into the Trans-Mississippi River West after the Lewis and Clark expedition; social, political, and economic development; culture of the indigenous Indians of the northern and southern plains.</td>
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<td>HIST 4123</td>
<td>African-American History to 1865</td>
<td>3 CR.</td>
<td>Development of the culture and history of African-Americans from slavery to emancipation is presented through lecture, selected readings, discussion groups, presentations by students, and preparation of a bibliographical essay.</td>
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<tr>
<td>HIST 4133</td>
<td>African-American History since 1865</td>
<td>3 CR.</td>
<td>Study of the socioeconomic, cultural, and political development of African-Americans from the end of the Civil War to the present.</td>
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<tr>
<td>HIST 4143</td>
<td>Southwest Frontier Seminar</td>
<td>3 CR.</td>
<td>Prerequisite: HIST 2753 United States History I. A seminar course concentrating on America’s nineteenth century Southwest frontier. Discussions, field trips, reading, and writing assignments will explore and expand existing historical scholarship, with an emphasis on the geographical area of the Arkansas River and Red River Valleys during the period from 1803 to 1917.</td>
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<tr>
<td>HIST 4153</td>
<td>History of Arkansas</td>
<td>3 CR.</td>
<td>Physiographic and demographic patterns; exploration, settlement, and political, social, and economic evolution of Arkansas from the Spanish and French excursions to the present. A study of contemporary policies and government in Arkansas.</td>
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<tr>
<td>HIST 4203</td>
<td>History of Mathematics</td>
<td>3 CR.</td>
<td>Prerequisites: MATH 2854 Calculus II. The history of mathematics from ancient times to the twentieth century with emphasis on three aspects: the development of mathematics throughout the centuries, mathematics as a human endeavor, and the history of mathematics as an educational tool.</td>
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<td>Course Code</td>
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<td>HIST 4213</td>
<td>PERSPECTIVES OF WOMEN IN WORLD HISTORY</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>An examination of the conditions of women in</td>
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<td>history with emphasis on problems in European</td>
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<td>history; attitudes toward women as reflected in</td>
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<td>religious, legal, and philosophical literature;</td>
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<td>and the role of expectations of women in various</td>
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<td>HIST 4303</td>
<td>HISTORY OF SOUTHEAST ASIA</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Studies of the natural history, human habitation,</td>
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<td>emerging civilizations, colonization, modern</td>
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<td>responses for independence, and effects of war</td>
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<td>on Southeast Asian states and their people.</td>
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<td>HIST 4313</td>
<td>MEDIEVAL MIDDLE EAST: 476-1453</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Study of the Byzantine Empire, Islam, the</td>
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<td>Crusades, and the Ottoman Turks.</td>
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<td>HIST 4503</td>
<td>INTRODUCTION TO PUBLIC HISTORY</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Prerequisites: junior standing, major in history</td>
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<td>or consent of instructor.</td>
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<td>Introduces methods and practices of public</td>
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<td>HIST 4524</td>
<td>BASIC SKILLS IN INTERPRETATION</td>
<td>4 CR.</td>
<td>(3 LEC., 1 LAB)</td>
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<td>Prerequisite: HIST 4503 Introduction to Public</td>
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<td>History or consent of instructor.</td>
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<td>Introduces skills and methods of interpretation,</td>
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<td>including both historical and natural</td>
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<td>interpretation.</td>
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<td>HIST 4533</td>
<td>INTERPRETATION TRAVEL SEMINAR</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Prerequisite: HIST 4503 Introduction to Public</td>
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<td>History or consent of instructor.</td>
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<td>Provides an opportunity for students to become</td>
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<td>familiar with a variety of historical and</td>
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<td>natural attractions. Students spend two weeks</td>
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<td>traveling to several sites in the region</td>
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<td>to observe the diversity of park operations and</td>
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<td>opportunities.</td>
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<td>HIST 4554</td>
<td>INTERPRETATION PLANNING</td>
<td>4 CR.</td>
<td>(3 LEC., 1 LAB)</td>
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<td>Prerequisite: HIST 4503 Introduction to Public</td>
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<td>History or consent of instructor.</td>
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<td>Interpretive planning for historic sites and</td>
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<td>HIST 4564</td>
<td>COMMUNICATING THROUGH EXHIBITS</td>
<td>4 CR.</td>
<td>(3 LEC., 1 LAB)</td>
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<td>Prerequisite: HIST 4503 Introduction to Public</td>
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<td>History or consent of instructor.</td>
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<td>Focuses on the use of traditional and multimedia</td>
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<td>exhibits in historical interpretation. Students</td>
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<td>study the methodology of exhibits and create</td>
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<td>their own exhibits.</td>
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<td>HIST 4573</td>
<td>CONSERVATION OF HERITAGE RESOURCES</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Prerequisite: HIST 4503 Introduction to Public</td>
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<td>History or consent of instructor.</td>
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<td>Conservation and utilization of historical and</td>
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<td>heritage sites.</td>
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<td>HIST 4803</td>
<td>SEMINAR IN U.S. HISTORY</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Prerequisites: senior standing, 15 credit hours</td>
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<td>of U.S. history, and HIST 3803 Methods of</td>
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<td>Historical Research.</td>
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<td>Advanced study of a topic in United States</td>
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<td>history chosen by instructor; includes a major</td>
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<td>research and writing project incorporating the</td>
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<td>goals of identifying a problem; establishing a</td>
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<td>thesis; gathering, evaluating, and analyzing</td>
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<td>evidence; and writing in an appropriate</td>
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<td>scholarly format.</td>
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<td>HIST 4813</td>
<td>SEMINAR IN ARKANSAS HISTORY</td>
<td>3 CR.</td>
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<td>Prerequisites: HIST 4153 History of Arkansas</td>
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<td>and consent of instructor.</td>
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<td>Discussion, directed readings, research, and</td>
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<td>writing on selected issues. Advanced study of a</td>
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<td>topic in Arkansas history chosen by instructor;</td>
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<td>includes a major research and writing project</td>
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<td>incorporating the goals of identifying a problem</td>
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<td>; establishing a thesis; gathering, evaluating,</td>
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<td>and analyzing evidence; and writing in an</td>
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<td>appropriate scholarly format. May be repeated,</td>
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<td>when topics differ, for a total of six hours.</td>
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<td>HIST 4823</td>
<td>TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL</td>
<td>3 CR.</td>
<td>(3 LEC.)</td>
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<td>Prerequisites: EDUC 3013 Human Development and</td>
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<td>Learning, EDUC 3112 Literacy Development in the</td>
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<td>Content Area, and EDUC 3222 Practicum I.</td>
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<td>Subject matter applications for secondary teacher</td>
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<td>education candidates (grades 7-12) in social</td>
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<td>studies. Incorporates a variety of instructional</td>
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<td>models, activities and examples as well as the</td>
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<td>integration of traditional and nontraditional</td>
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<td>resource materials. Course must be completed</td>
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<td>prior to student teaching.</td>
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### HIST 4903  
**HISTORY: SPECIAL TOPICS**  
3 CR. (3 LEC.)

Prerequisites: ENGL 1213 Freshman English II and one of the following: HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500.

Study of selected topics in history. Course content varies. May be repeated when topics differ, for a total of 12 hours.

### HIST 493V  
**HISTORY: INDEPENDENT STUDY**  
1-3 CR. (VARIEABLE)

Prerequisites: senior standing, 15 credit hours of history, and consent of instructor.

For students of superior ability who seek special research in the field. May be repeated for a total of six hours.

### HIST 4953  
**HISTORY INTERNSHIP**  
3 CR. (3 IND. STU.)

Prerequisites: 12 credit hours of history, minimum of junior standing, and consent of instructor.

Involves field experience with a history-related business or public agency. The student works under the supervision of an individual at the internship agency and a member of the history faculty. The student must secure permission from both supervisors before registration. May be repeated for a total of six hours.

### HLTH Health Sciences

#### HLTH 1001  
**BASIC LIFE SUPPORT (BLS)**  
FOR HEALTHCARE PROVIDERS  
1 CR. (1 LEC.)

Participants learn to recognize and respond to life-threatening emergencies using skills of cardiopulmonary resuscitation (CPR), use of an automated external defibrillator (AED), and relief of foreign-body obstruction. American Heart Association guidelines for BLS and CPR for healthcare providers are followed.

#### HLTH 1004  
**INTRODUCTION TO HEALTH OCCUPATIONS**  
4 CR. (2 LEC., 4 LAB)

Designed to provide students with basic information and skills needed for a career in the healthcare field. Emphasis on the development of competencies related to student organizations, medical history and events, healthcare systems, healthcare careers, qualities of a successful healthcare worker, medical ethics and legal responsibilities, and nutrition and health. A wide range of health-related topics and health-career opportunities are analyzed in a classroom setting through research, participation in lecture/discussions, and presentations by community healthcare professionals. CPR as a healthcare provider is offered.

#### HLTH 1013  
**HEALTH CAREER CONCEPTS**  
3 CR. (3 LEC.)

Introduces students to concepts necessary to become professional and successful employees in the healthcare area. Concepts presented include communication skills in the healthcare area, personal and workplace behavior, legal/ethical guidelines, critical thinking, culture, needs/motivation, lifelong learning, interdisciplinary teams/groups, healthcare today, and professional development.

#### HLTH 1024  
**PHARMACY TECHNOLOGY**  
4 CR. (3 LEC., 2 LAB)

Prerequisites: HLTH 1473 Medical Terminology and BIOL 1433/1431 Basic Anatomy and Physiology/Lab.

A basic introduction into all aspects of pharmacy practice. To include: medication dosage forms, routes of administration, abbreviations, pharmacy calculations, pharmacy law, interpreting medication orders, drug information resources, compounding, medication errors, and institutional, ambulatory and home care pharmacy practice.

#### HLTH 1025  
**PHARMACY TECHNOLOGY II**  
4 CR. (3 LEC., 2 LAB)

Prerequisites: HLTH 1024 Pharmacy Technology I and CHEM 1303/1301 Chemical Principles/Lab.

Designed to provide an overview of drug pharmacology including major drug classes, mechanisms of action, approved indications, and common drug interactions. At the conclusion of the two-semester course sequence, students will have sufficient knowledge and skills necessary to sit for the pharmacy technician certification exam.

#### HLTH 1473  
**MEDICAL TERMINOLOGY**  
3 CR. (3 LEC.)

Develops the ability to recognize, understand, and use medical terminology. Intended for persons studying in the health occupational fields-students who plan to be nurses, paramedics, surgical technologists, medical secretaries, medical laboratory technologists, medical assistants, etc. - and for graduates presently working in the paramedical fields who need to review or increase their vocabularies.
**HLTH 2953 FIRST AID** 3 CR. (3 LEC.)
A study of the care and treatment for victims of accidents or sudden illness. CPR instruction is included as a component of this course.

**HLTH 3103 PATHOPHYSIOLOGY** 3 CR. (3 LEC.)
Prerequisites: BIOL 1523/1521 Anatomy and Physiology I/ Lab and BIOL 1533/1531 Anatomy and Physiology II/ Lab.
Study designed for the understanding of selected pathological disturbances relating to human disease processes. Principles of specific mechanisms of human disease pathophysiology are presented by organ system. Selected interventional technologies are explored.

**HLTH 316V TRANSCULTURAL HEALTH** 3-6 CR. (VAR.)
Prerequisite: One of the following: ADN 1508 Nursing Fundamentals; NURS 3227 Foundations of Nursing Care; DHYG 1213 Dental Hygiene Clinic I; SUR 153A Surgical Technology Practicum I; RADT 1124 Clinical Education I; or consent of instructor.
Examines the interrelationship of culture and health. Clinical practice opportunities, in the United States or internationally, introduce students to the health practices and issues of persons from various parts of the world helping to prepare them to care for a multicultural clientele. May require travel.

**HLTH 4103 RESEARCH IN THE HEALTH SCIENCES** 3 CR. (3 LEC.)
Prerequisites: admission into a health sciences program or approval of the program director and STAT 2503 Probability and Statistics.
Introduction into methods and techniques of research in health sciences. Focuses on basic research terminology, research designs, qualitative and quantitative methods, and data analysis. Critical-thinking skills used to evaluate clinical research for applicability to the health sciences.

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**HONR Honors**

**HONR 1101 INTRODUCTION TO HONORS INTERNATIONAL STUDIES** 1 CR. (1 LEC.)
Prerequisite: admission to the Honors International Studies Program.
Overview of Honors International Studies Program structure, university offerings, and political, social, economic and cultural relationships within the international system.

**HONR 1510 HONORS AMERICAN STUDIES (DOMESTIC MAYMESTER)** 0 CR. (LEC.)
Prerequisite: HONR 1101 Introduction to Honors International Studies.
Corequisite: selected Honors American Studies course, including but not limited to: HIST 2763H United States History II (Honors) or POLS 2753H American National Government (Honors) or ENGL 2783H American Literature to 1865 (Honors).
Prepares students for the Honors American Studies (Domestic Maymester). Course will be taken concurrently with prescribed courses compatible with the focus of American studies and may vary according to course selection topics.

**HONR 287V HONORS INTERDISCIPLINARY SEMINAR** 3-7 CR. (VARIABLE)
Prerequisites: admission to the honors program and completion of honors Foundations of Learning or consent of honors program director.
An interdisciplinary seminar for honors students with varying topics. The course is team taught by professors from different disciplines, who collaborate in developing activities that allow students to make cross disciplinary connections while meeting the basic outcomes of individual courses. This course counts for selected general education core requirements depending on course content. Two iterations of the course may be taken for honors degree requirements.

**HONR 3713 HONORS JUNIOR RESEARCH SEMINAR** 3 CR. (3 LEC.)
Prerequisite: junior standing and completion of 18 hours of Honors courses.
Prepares Honors International Studies students for independent research projects. Advanced research techniques, survey of current global trends, in-depth investigation of possible global issues worthy of development in the HONR 4803 Honors International Studies Capstone.

**HONR 4803 HONORS INTERNATIONAL STUDIES CAPSTONE** 3 CR. (IND. STU.)
Prerequisites: HONR 3713 Honors Junior Research Seminar, and consent of instructor and director of the Honors International Studies Program.
Investigation of a major international topics of interest by honors students under the mentorship of a faculty member. Requires critical thinking to research,
analyze, and communicate findings, culminating with a written paper or scholarly project and public presentation of results.

HUMANITIES  Humanities

HUMN 2563  Humanities Through The Arts  3 CR. (3 LEC.)
An introduction to the arts in Western civilization and their relationship to basic humanistic ideas. In addition to serving as an introduction to music, painting, sculpture, architecture, and literature (drama and poetry), the course explores fundamental principles and ideas of Western culture and how these are expressed in each of the artistic disciplines. Basic writing, research, and computer skills beneficial.

HUMN 2563H Humanities Through The Arts (HonorS)  3 CR. (3 LEC.)
Prerequisites: ENGL 1203H Freshman English I (Honors) and acceptance into honors program.
The honors section of Humanities Through the Arts will challenge students to trace the classical tradition in Western art (painting, sculpture, music, architecture, and literature). Primary focus will be on how that tradition has been preserved, transformed, abandoned, revived, etc. Concepts such as idealism, realism, significant form, classical, romantic, and modern serve as a framework for exploring the tradition of western art.

HUMN 2663  Introduction to Film  3 CR. (3 LEC.)
Prerequisite: ENGL 1203 Freshman English I.
Explores the art of film and the expression of societal values through the medium of film. Film techniques, major directors of film, historical genres, and significant works will be studied and analyzed. Major American films will be the primary focus, although some films from abroad may be included.

IDS  Interdisciplinary Studies

IDS 1202 Foundations of Learning  2 CR. (2 LEC.)
Designed to aid students in being successful at a collegiate level, as well as throughout their personal and professional lives as a lifelong learner.

IS  Imaging Sciences

Enrollment in courses beginning with the IS prefix requires admission to the imaging sciences program or consent of the executive director of Imaging Sciences.
**IS 3103 LEGAL AND ETHICAL CONSIDERATIONS IN HEALTHCARE** 3 CR. (3 LEC.)
Explores legal and ethical issues affecting imaging professional. Basic concepts of law, medical legal issues such as standard of care, scope of practice, and professional malpractice, and professional and administrative ethics to include ethical problem solving.

**IS 3113 PATIENT INFORMATION MANAGEMENT** 3 CR. (3 LEC.)
Provides the basic concepts in managing patient information. Topics for medical records management include privacy and regulatory issues, accreditation standards regarding accountability and protection, management models, charting, HIPAA, and informatics systems.

**IS 4103 PERSPECTIVES IN HUMAN DIVERSITY** 3 CR. (3 LEC.)
Designed to explore the characteristics of a diverse population to better promote understanding of patients, patient’s families and professional peers. Value systems, cultural and ethnic influences, communication styles, socioeconomic influences, and health risks are explored in-depth. An understanding of the factors that influence patient and peer interrelationships and insight into human diversity will assist the imaging professional in providing better patient care and departmental effectiveness.

**ISM Imaging Sciences Management**
Enrollment in courses beginning with the ISM prefix requires admission to the imaging sciences program or consent of the executive director of Imaging Sciences.

**ISM 4203 LEADERSHIP PRINCIPLES AND THEORIES** 3 CR. (3 LEC.)
Prerequisites: HLTH 4103 Research in the Health Sciences and IS 4103 Perspectives in Human Diversity.
Corequisite: ISM 4213 Leadership Practicum.
Introduces the skills and knowledge necessary for the imaging professional to provide leadership in the workplace and promote professional development. Theoretical knowledge, principles of leadership, and leadership/management styles are explored. A combination of theory content, case studies, and critical-thinking exercises provide insight into topics such as leadership, motivation, communication, group dynamics, team building, and the components of effective management.

**ISM 4213 LEADERSHIP PRACTICUM** 3 CR. (6 LAB)
Prerequisites: HLTH 4103 Research in the Health Sciences and IS 4103 Perspectives in Human Diversity.
Corequisite: ISM 4203 Leadership Principles and Theories.
An intensive clinical assignment that allows students to apply theoretical concepts in a practice setting.

**ISM 4303 QUALITY MANAGEMENT IN DIAGNOSTIC IMAGING** 3 CR. (3 LEC.)
Prerequisites: HLTH 4103 Research in the Health Sciences and IS 4103 Perspectives in Human Diversity.
Focuses on the evolution of the American healthcare system. Topics include the formulation and implementation of health policy, the relationship between national healthcare policy and local healthcare delivery, the imaging professional's role when addressing social and ethical issues impacting healthcare, epidemiological studies used to measure healthcare delivery, and technology’s impact on healthcare delivery.

**ISM 4313 HEALTHCARE SYSTEMS** 3 CR. (3 LEC.)
Prerequisites: HLTH 4103 Research in the Health Sciences and IS 4103 Perspectives in Human Diversity.
Introduces the basic theories and principles related to the safe utilization of imaging equipment. Application of quality assurance theories and techniques may include projects and/or laboratory experiments. Focus is the production and maintenance of quality images with minimal patient exposure and production cost.

**ISM 4403 INDEPENDENT STUDY IN IMAGING SCIENCES** 3 CR. (3 IND. STU.)
Prerequisite: 12 credit hours of advanced imaging sciences courses or consent of program director.
Supervised investigation of an advanced imaging science topic. Faculty consultation and approval of topic required.

**ISM 4413 ADMINISTRATION AND SUPERVISION IN DIAGNOSTIC IMAGING** 3 CR. (3 LEC.)
Prerequisites: ISM 4203 Leadership Principles and Theories and IS 4103 Perspectives in Human Diversity.
A study of the principles of administration and supervision of imaging departments. Topics include management functions, financial stewardship, in-service training, decision making, and human relations.
ISM 4423 RISK MANAGEMENT 3 CR. (3 LEC.)
Prerequisite: IS 3103 Legal and Ethical Considerations in Healthcare.
An introduction into the sources of risk, target populations, and documentation and reporting of incidents. Strategies to reduce or minimize possible risk by using systematic collection and utilization of data will be included as well as the formulation of a risk-management action plan.

ISM 4503 INTERNSHIP IN IMAGING SCIENCES 3 CR. (3 IND. STU.)
Prerequisite: 12 credit hours of advanced imaging sciences courses or consent of program director.
Allows students the opportunity to gain experience in the promotion of the imaging sciences profession. Projects may include public speaking engagements, providing in-service training, recruitment, or other projects approved by faculty.

ISM 4513 APPLIED RESEARCH 3 CR. (3 IND. STU.)
Prerequisite: HLTH 4103 Research in the Health Sciences.
This capstone course requires the application of research concepts for the purpose of conducting intense research culminating in a substantive paper. Research topics should be selected according to the interest of the student with instructor approval.

ISS Imaging Sciences Sonography
Enrollment in courses beginning with the ISS prefix requires admission to the diagnostic medical sonography program or consent of the executive director of Imaging Sciences.

ISS 3102 CLINICAL LAB PRACTICE 2 CR. (10 LAB)
Prerequisite: admission into the diagnostic medical sonography degree program.
Application of sonographic-scanning procedures in the lab setting. Emphasis on anatomical recognition in the cross-sectional planes and the proper use of sonographic instruments and equipment.

ISS 3103 ACOUSTICAL PHYSICS AND INSTRUMENTATION I 3 CR. (3 LEC.)
Prerequisite: admission into the diagnostic medical sonography degree program.
Acoustical physics, principles of ultrasound instruments, modes of operation, operator control options, frequency selection, and echogenic properties discussed. Emphasis on ultrasound transmission in soft tissues, attenuation of sound energy, parameters affecting sound transmission, and resolution of sound beams.

ISS 3113 CROSS-SECTIONAL ANATOMY FOR SONOGRAPHERS 3 CR. (3 LEC.)
Prerequisite: admission into the diagnostic medical sonography degree program.
Corequisites: ISS 3103 Acoustical Physics and Instrumentation I and ISS 3102 Clinical Lab Practice.
The study of human anatomy in the transverse, longitudinal, and coronal planes with application to sonographic images.

ISS 3203 ABDOMINAL SONOGRAPHY I 3 CR. (2 LEC., 2 LAB)
Prerequisite: ISS 3113 Cross-Sectional Anatomy for Sonographers.
Corequisites: ISS 3212 Acoustical Physics and Instrumentation II, ISS 3213 Clinical Practice I, and ISS 3223 Vascular Sonography I.
Human anatomy in the transverse, longitudinal, and coronal planes with emphasis on organs in abdomen and pelvic cavity. Study of disease process and physiological alterations, sonographic methods to visualize adult and pediatric abdomens, normal variants, congenital anomalies, physiology, and related laboratory tests. Technical information to include procedural and scanning techniques will be examined.

ISS 3212 ACOUSTICAL PHYSICS AND INSTRUMENTATION II 2 CR. (2 LEC.)
Prerequisite: ISS 3103 Acoustical Physics and Instrumentation I.
Corequisites: ISS 3203 Abdominal Sonography I, ISS 3213 Clinical Practice I, and ISS 3223 Vascular Sonography I.
Continues the exploration into the interaction of ultrasound production and display, various transducer designs and construction, quality assurance/control, bioeffects, image artifacts, techniques for recording.
static and dynamic images, methods of color flow, the Doppler principles, and hemodynamics.

**ISS 3213 CLINICAL PRACTICE I 3 CR. (15 LAB)**

Prerequisite: ISS 3102 Clinical Lab Practice.
Corequisites: ISS 3212 Acoustical Physics and Instrumentation II, ISS 3203 Abdominal Sonography I, and ISS 3223 Vascular Sonography I.

Application of sonographic scanning procedures in a hospital or clinic setting with independent scanning when competency has been demonstrated. Emphasis will be on the abdominal aorta and vascular system, liver, and gallbladder, and related structures. The interpretation of normal and pathologic sonograms of each area and film critique are critical components.

**ISS 3223 VASCULAR SONOGRAPHY I 3 CR. (2 LEC., 2 LAB)**

Prerequisite: ISS 3113 Cross-Sectional Anatomy for Sonographers.
Corequisites: ISS 3203 Abdominal Sonography I, ISS 3212 Acoustical Physics and Instrumentation II, and ISS 3213 Clinical Practice I.

The study and application of medical sonography related to central and peripheral arterial and venous system, cerebral arterial system, and abdominal vasculature. Topics will include vascular anatomy, diseases, physical examination, noninvasive testing and invasive testing. Technical information to include performance of physiological testing, real-time ultrasound imaging and Doppler evaluation as it relates to vasculature.

**ISS 4303 OBSTETRICAL AND GYNECOLOGICAL SONOGRAPHY I 3 CR. (2 LEC., 2 LAB)**

Prerequisite: ISS 3203 Abdominal Sonography I.
Corequisite: ISS 4323 Clinical Practice II.

Study of obstetrical and gynecological anatomy, along with the clinical applications and sonographic methods used to visualize pelvic organs, the pregnant uterus and related structures. Comparison of normal sonographic patterns with identification of pathology, physiology, differentials, related organ development, and correlation with lab tests is included, along with technical information including procedural and scanning techniques.

**ISS 4323 CLINICAL PRACTICE II 3 CR. (24 LAB)**

Prerequisite: ISS 3213 Clinical Practice I.
Corequisite: ISS 4303 Obstetrical and Gynecological Sonography I.

Continued application of sonographic scanning procedures in a hospital or clinic setting with independent scanning when competency has been demonstrated. Special emphasis on the pelvic areas, pregnant uterus, and related structures. The production and interpretation of normal and pathological sonograms of each area to include film pathological are critical components.

**ISS 4402 SPECIAL APPLICATIONS AND PATHOLOGICAL CONSIDERATIONS 2 CR. (2 LEC.)**

Prerequisites: ISS 3113 Cross-Sectional Anatomy for Sonographers and ISS 3212 Acoustical Physics and Instrumentation II.
Corequisites: ISS 4413 Abdominal Sonography II, ISS 4434 Clinical Practice III, and ISS 4433 Vascular Sonography II.

Application and use of ultrasound in the imaging of superficial organs and structures, such as the carotid arteries and other peripheral vasculature, thyroid and parathyroid glands, breast, extremities, and scrotum. The histological aspect of various pathological conditions correlated with acoustical properties and ultrasound characteristics will be presented.

**ISS 4413 ABDOMINAL SONOGRAPHY II 3 CR. (3 LEC.)**

Prerequisite: ISS 3203 Abdominal Sonography I.
Corequisites: ISS 4402 Special Applications and Pathological Considerations, ISS 4434 Clinical Practice III, and ISS 4433 Vascular Sonography II.

Advanced study of human anatomy in the transverse, longitudinal, and coronal planes with emphasis on the organs in the abdomen and pelvic cavity to include technical information and scanning techniques. Extensive study of the disease process and physiological alterations, sonographic methods to visualize adult and pediatric abdomens, normal variants, congenital anomalies, physiology, and related laboratory tests.

**ISS 4433 VASCULAR SONOGRAPHY II 3 CR. (2 LEC., 2 LAB)**

Prerequisite: ISS 3223 Vascular Sonography I.
Corequisites: ISS 4413 Abdominal Sonography II, ISS 4402 Special Applications and Pathological Considerations, and ISS 4434 Clinical Practice III.

Advanced study of vascular sonography including the effects of medication on vascular diagnostic findings, clinical signs and symptoms, related diagnostic procedures, and typical/atypical findings of vascular disease. Study will include the quantitative principles applied to vascular testing. Technical information to include performance of physiological
testing, real-time ultrasound imaging and Doppler evaluation as it relates to vasculature.

**ISS 4434 CLINICAL PRACTICE III  4 CR. (20 LAB)**

Prerequisite: ISS 4323 Clinical Practice II.
Corequisites: ISS 4413 Abdominal Sonography II, ISS 4402 Special Applications and Pathological Considerations, and ISS 4433 Vascular Sonography II.

Continued application of sonographic scanning procedures in a hospital or clinic setting with independent scanning when competency has been demonstrated. Special emphasis will be placed on the pancreas, kidneys, spleen, peripheral arterial and venous system, and cerebrovascular system. The production and interpretation of normal and pathologic sonograms along with film critique are critical components.

**ISS 4501 PROFESSIONAL SEMINAR  1 CR. (2 LAB)**

Prerequisite: successful completion of first four semesters in the diagnostic medical sonography program.
Corequisites: ISS 4513 Obstetrical and Gynecological Sonography II and ISS 4544 Clinical Practice IV.

Review of essential topics, facts and principles required to pass the four ARDMS (American Registry of Diagnostic Medical Sonographers) national boards. Simulated ARDMS registry examinations based on the ARDMS outline is administered to students to examine progress and assess strengths and weaknesses. Recent applications, skills, knowledge, behaviors and/or attitudes pertinent to the technology or profession and relevant to the professional development of the student is addressed.

**ISS 4513 OBSTETRICAL AND GYNECOLOGICAL SONOGRAPHY II  3 CR. (2 LEC., 2 LAB)**

Prerequisite: ISS 4303 Obstetrical and Gynecological Sonography I.
Corequisites: ISS 4501 Professional Seminar and ISS 4544 Clinical Practice IV.

Advanced study of obstetrical and gynecological anatomy to include clinical applications and sonographic methods used to visualize pelvic organs, the pregnant uterus and related structures. A comparison of normal sonographic patterns with identification of pathology, physiology, differentials, and correlations with lab tests and related organ development will be presented. Technical information on procedural and scanning techniques is included.

**ISS 4544 CLINICAL PRACTICE IV  4 CR. (20 LAB)**

Prerequisite: ISS 4434 Clinical Practice III.
Corequisites: ISS 4513 Obstetrical and Gynecological Sonography II and ISS 4501 Professional Seminar.

Students must demonstrate full competency and progress to full independence by the end of course. Areas of competency include identification of the anatomy and pathology of the abdomen, small parts (special applications), and obstetrical and gynecological system. Rotations in the practice of peripheral vascular exams and other specialties within the field may be arranged. Film critique is a critical component of this course.

**ITA Information Technology - Applications**

**ITA 1003 COMPUTER APPLICATIONS FOR THE KNOWLEDGE WORKER  3 CR. (3 LEC.)**

An introduction to computer literacy using Microsoft applications such as Word, Access, Excel and Power Point. Real work problem sets are used as integrated assignments. (ACTS: CPSI 1003)

**ITA 1011 QUICKBOOKS  1 CR. (1 LEC.)**

Accounting basics using QuickBooks including writing checks, creating reports, managing accounts payables/receivables, invoicing, inventory management, and payroll. Outside computer practice is required.

**ITA 1051 COMPUTER – WORD PROCESSING  1 CR. (1 LEC.)**

Addresses the principles and concepts of computer-based word processing. Develops skills in using graphics, tables and graphs to provide visual support to written information for effective communication.

**ITA 1101 COMPUTER – PRESENTATION GRAPhICS  1 CR. (1 LEC.)**

Develops skills in basic text presentation including graphics to enhance oral presentation and effective communication.

**ITA 1201 COMPUTER – DATABASE  1 CR. (1 LEC.)**

Uses of database as a tool for collection of data, extraction of information from data, and presentation of information to support decision making and effective communication.
ITA 1251

COMPUTER – SPREADSHEETS 1 CR. (1 LEC.)
Addresses the use of spreadsheets to draw inferences from data as a communication tool. General order of operations and algebraic formulas are applied to data.

ITC Information Technology - Core

ITC 1123 IT PROJECT TOOLS 3 CR. (3 LEC.)
Provides basic knowledge and skills to be an active member of an IT project team. Students are assigned to project teams with a related information technology task. They are responsible for planning, research, tracking, documentation, and reporting activity related to the team’s efforts using standard office software utilities, project management software, and technical graphics software. The primary intent is to develop basic skill sets for software tools and team building.

ITC 1143 WEBSITE DESIGN 3 CR. (3 LEC.)
Prerequisite: ITC 1353 Logic and Design for IT.
Provides the knowledge and skills to create and manage websites using tools such as Dreamweaver and Dynamic HTML.

ITC 1353 LOGIC AND DESIGN FOR INFORMATION TECHNOLOGY 3 CR. (3 LEC.)
An introduction to Information Technology, including trends and career opportunities. Introduces students to programming concepts, structured and object styles, logical thinking and problem solving. General programming topics, design tools and algorithms are introduced through pseudo code with structured modular design, object and event-driven programming paradigms.

ITC 1374 PROGRAMMING FOR ENGINEERS 4 CR. (4 LEC.)
Prerequisite: MATH 1403 College Algebra or higher.
A course for students majoring in engineering. Topics include data representation, high-level languages, looping, functions, arrays, pointers, and an introduction to the Linux operating system shell.

ITC 1403 OPERATING SYSTEMS 3 CR. (3 LEC.)
An introduction of how operating systems work and examines the building blocks of all modern operating systems such as processes, threads, file systems, input/output, memory management, and security. Windows and Linux operating systems are examined.

ITC 1614 NETWORK FUNDAMENTALS 4 CR. (4 LEC.)
Provides the basic knowledge and skills to implement a simple local area network, including the OSI network model, topologies, transmission media, network devices, Ethernet technologies, IP addressing, and subnets.

ITC 2324

INTRODUCTORY PROGRAMMING 4 CR. (4 LEC.)
Prerequisite: MATH 1403 College Algebra.
Introduction to the Java programming language. Structured program design is emphasized. Procedural programming techniques will be used from the beginning as a basis for application development. Object-oriented concepts are introduced and taught in the latter portion of the course.

ITC 2334 ADVANCED PROGRAMMING 4 CR. (4 LEC.)
Prerequisite: ITC 2324 Introductory Programming, or ITC 1374 Programming for Engineers.
Advanced programming techniques and concepts are presented using Java programming, to include inheritance, polymorphism, graphical user interfaces, event handling, exception handling, files and streams.

ITC 2513 DATA MODELING 3 CR. (3 LEC.)
Prerequisite: ITC 1353 Logic and Design for Information Technology.
Introduces database design by performing conceptual data modeling to support information requirements. Both structured and object-oriented techniques are utilized in the creation of conceptual, logical and physical data models. Students develop skills to create models using common graphical modeling tools such as Microsoft Visio.

ITC 2524 DATABASE AND QUERIES 4 CR. (4 LEC.)
Prerequisite: ITC 2513 Data Modeling and ITC 2324 Introductory Programming.
Introduces the student to Structured Query Language (SQL) and how to utilize SQL to retrieve information from a database. Develops skills to build a database by creating tables, indexes, views, users and sequences as well as populating and manipulating the
data within tables. Information will be implemented on Oracle but should be transferable to most databases.

**ITC 2624**  
**NETWORK CLIENT SUPPORT**  
4 CR. (4 LEC.)  
Prerequisite: ITC 1614 Network Fundamentals.  
Covers hardware and software installation and configuration issues for network client PCs. Learners install, configure, and troubleshoot various network client PCs in a help-desk environment.

**ITC 2753**  
**E-COMMERCE TECHNOLOGIES**  
3 CR. (3 LEC.)  
Prerequisite: ITC 1353 Logic and Design for IT.  
Introduces student to the role of how information technology supports business goals, and from a technical perspective, the issues of electronic commerce. E-Commerce business and technical strategies will be examined with a feasibility plan from an e-commerce perspective.

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**ITD Information Technology - Database**

**ITD 3113 – ADVANCED SQL**  
3 CR. (3 LEC.)  
Prerequisite: ITC 2524 Database and Queries.  
Presents advanced SQL queries and knowledge on how to write more efficient SQL queries. Some of the material covered will be general to all databases, but some topics will be specific to Oracle. Topics include defining more complex database objects, setting up objects to implement business rules, and analyzing the efficiency of SQL queries.

**ITD 3123 STORED PROCEDURES**  
3 CR. (3 LEC)  
Prerequisite: ITC 2524 Database and Queries.  
Expands knowledge of SQL and introduces PL/SQL. The student learns to write stored procedures, functions, packages, and triggers.

**ITD 3133 DATA WAREHOUSING**  
3 CR. (3 LEC.)  
Prerequisite: ITC 2524 Database and Queries.  
Introduces data warehousing concepts and technologies. Focuses on design and implementation of a data warehouse utilizing an enterprise level database. Coursework includes entity relationship diagramming, dimensional modeling, physical modeling and warehouse meta data management.

**ITD 3213**  
**DATABASE ADMINISTRATION I**  
3 CR. (3 LEC.)  
Prerequisite: ITC 2524 Database and Queries.  
Introduces database administration. Students learn to install, configure and maintain an enterprise-level database. Topics include Oracle database architecture, Oracle DBA tools, and managing storage, files and database objects.

**ITD 3313 DATABASE APPLICATION DEVELOPMENT**  
3 CR. (3 LEC.)  
Prerequisite: ITD 3123 Stored Procedures.  
Development of database applications using Oracle forms and their deployment over the Internet.

**ITD 4223**  
**DATABASE ADMINISTRATION II**  
3 CR. (3 LEC.)  
Prerequisite: ITD 3213 Database Administration I.  
Introduces database backup and recovery for an Oracle database. Students use backup and recovery methods and gain hands-on experience with user-managed backups and recoveries and Oracle's Recovery Manager (RMAN).

**ITD 4333 DATABASE PERFORMANCE TUNING**  
3 CR. (3 LEC.)  
Prerequisite: ITD 4223 Database Administration II.  
Concepts and techniques of optimizing the performance of an enterprise level relational database. Students use a variety of tools to recognize, troubleshoot, and resolve common performance-related problems.

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**ITF Information Technology - Final Capstone**

**ITF 2114 CAPSTONE PROJECT**  
4 CR. (4 LEC.)  
Prerequisite: consent of the Information Technology Department head.  
Students approaching completion of associates degree requirements and preparing for entry into the workforce are assessed in all phases of planning, development and execution of general IT knowledge, validating all previous coursework. Assessment includes Internet research, writing, presentation, computational, and information technology skills. Course is not part of the information technology bachelor's degree. The
bachelor’s degree capstone project (ITF 4114) cannot be substituted.

**ITF 3444 Computer Architecture and Operation**  
4 CR. (4 LEC.)  
Prerequisite: ITC 2334 Advanced Programming.  
Introduces the organization of hardware and software within modern computer systems, examines the different levels of computer architecture and the functions performed at each level. CPU organization, gates and Boolean algebra, microarchitecture, ISA level, operating systems, virtual memory, and assembly language examined.

**ITF 3453 Microprocessor Applications**  
3 CR. (3 LEC.)  
Prerequisite: junior standing.  
Prerequisite or corequisite: ITF 3444 Computer Architecture and Operations or consent of instructor.  
Introduction to the application of microprocessors in various environments such as laboratory equipment, controller area networks, and data acquisition.

**ITF 3634 Enterprise Java Programming**  
4 CR. (4 LEC.)  
Prerequisite: ITC 2334 Advanced Programming.  
Opportunities to use object-oriented design techniques and the Java language to create applications utilizing database connectivity. Allows the learner to create network client-server applications and distributed applications.

**ITF 4104 Systems Analysis and Design**  
4 CR. (4 LEC.)  
Prerequisite: ITF 3634 Enterprise Java Programming.  
Exposure to the modern techniques and methodologies needed to plan, analyze, design and implement a computer based system. Structured and object oriented techniques are introduced along with proven concepts for maintenance and troubleshooting of existing Information Systems. Methodical techniques for project management, control, status reporting and effective user interaction will be presented. Emphasis on project teamwork and leadership are addressed including the ethical responsibilities of the Systems Analyst.

**ITF 4114 Capstone Project**  
4 CR. (4 LEC.)  
Prerequisite: consent of the Information Technology Department head.  
Students from each information technology career cluster are aligned in teams and assigned a significant project which simulates experiences expected to be encountered in today’s workplace. This project includes all phases of planning, development, and execution thereby validating all previous learning, to include research, writing, presentation, team, computational, and information technology skills.

**ITF 4123 Information Technology Security**  
3 CR. (3 LEC.)  
Prerequisite: ITF 3634 Enterprise Java, ITC 2624 Network Client Support.  
 Begins with examining the business continuity mandate for securing IT assets, moves through physical versus logical security, how to categorize and analyze threats using organizational security policies, integrating multi-disciplinary skills to analyze risks, then implement security measures. Security measures include authentication, authorization, cryptography, perimeter security, as well as methods for securing applications & various functional servers.

**ITF 412V IT: Special Topics**  
3-9 CR. (VARIABLE)  
Prerequisite: consent of instructor and junior standing.  
Provides instruction in emerging and advanced technologies which are not currently offered in the curriculum. Offered periodically, based on need. May be repeated for a total of nine hours.

**ITF 413V IT Independent Study**  
1-3 CR. (VARIABLE)  
Prerequisite: consent of instructor and junior standing.  
Selective readings and projects will be submitted by the student and approved by the instructor before registration. Open only to students with demonstrated ability to perform research and adequately document their findings (commonly called “White Papers”). May be repeated for a total of six hours.

**ITF 414V IT Work-Based Learning**  
1-3 CR. (VARIABLE)  
Prerequisites: consent of instructor, junior standing, and 3.00 GPA.  
Comprehensive treatment of relevant work experience related to the student's major field of study. It includes cooperative education, internships, extended job shadowing and any other systematic, planned work experience. Academic faculty and local employers work together with students to ensure the relationship and application of classroom instruction in a work-experience environment. The faculty sponsor approves the work experience and the number of credit
hours to be earned. May be repeated for a total of six hours.

**ITN Information Technology - Networking**

**ITN 2413**

**MICROSOFT NETWORKING I** 3 CR. (3 LEC.)

Prerequisite: ITC 1614 Network Fundamentals.
Provides students with basic and advanced computer-network administrative techniques valuable for network managers, PC support personnel, programmers, and system and network administrators. Students install, administer, and troubleshoot various type of servers including Active Directory in a Microsoft Windows network environment.

**ITN 2423**

**MICROSOFT NETWORKING II** 3 CR. (3 LEC.)

Prerequisite: ITN 2413 Microsoft Networking I.
Continues coverage of networking with Microsoft Windows operating systems. Students learn to manage and configure Active Directory Services, DNS, DHCP, remote access, IP routing, WINS, and network address translation in a Windows network.

**ITN 2433**

**NOVELL NETWORKING I** 3 CR. (3 LEC.)

Prerequisite: ITC 1614 Network Fundamentals.
Provides students with Novell NetWare administrative techniques valuable for network managers, PC support personnel, programmers, and system and network administrators. Students learn NetWare server and client software installation techniques using PC-compatible microcomputers, implement a Novell Directory Services (NDS) tree, create a network file system, and learn to administer a NetWare network.

**ITN 2443**

**NOVELL NETWORKING II** 3 CR. (3 LEC.)

Prerequisite: ITN 2433 Novell Networking I.
Continues coverage of networking with Novell NetWare. Students learn to upgrade Novell NetWare server software and printing, use different methods to install NetWare; learn detailed file system considerations; use the server console, remote console, and Console 1 to manage and optimize a NetWare network; and learn to install DNS/DHCP services and FastTrack Web server.

**ITN 3113**

**WINDOWS SYSTEM ADMINISTRATION** 3 CR. (3 LEC.)

Prerequisite: ITC 2624 Network Client Support.
Provides students with the basic skills and knowledge to install a LAN server, configure file systems, manage users and security, manage file and print-sharing resources, configure network clients, and perform system recovery.

**ITN 3133**

**LINUX SYSTEM ADMINISTRATION** 3 CR. (3 LEC.)

Prerequisite: ITC 2624 Network Client Support.
Install a LAN server, configure file systems, manage users and security, manage file and print-sharing resources, configure network clients, and perform system recovery using Linux.

**ITN 3142**

**AS/400 SYSTEM ADMINISTRATION** 2 CR. (2 LEC.)

Prerequisite: ITC 2624 Network Client Support.
Operation and management of an AS/400 mini-computer.

**ITN 3214**

**INTERNETWORKING I** 4 CR. (4 LEC.)

Prerequisite: ITC 1614 Network Fundamentals.
Covers the installation and configuration of Cisco routers to route IP packets. Provides a basic understanding of routing protocols, router configuration and components, and TCP/IP.

**ITN 3224**

**INTERNETWORKING II** 4 CR. (4 LEC.)

Prerequisite: ITN 3214 Internetworking I.
Installation and configuration of Cisco routers and switches. The unit provides the knowledge to install and configure IGRP, VLANs, Access Lists, and IPX/SPX.

**ITN 3234**

**INTERNETWORKING III** 4 CR. (4 LEC.)

Prerequisite: ITN 3224 Internetworking II.
Installation and configuration of WAN protocols and technologies. Students configure routers to support Frame Relay and ISDN services.

**ITN 3313**

**DATA AND COMPUTER COMMUNICATIONS** 3 CR. (3 LEC.)

Prerequisite: ITC 2624 Network Client Support.
Data communication principles, analog and digital communications, synchronous and asynchronous communication, signal representation and modulation, telecommunications, and wireless technologies are covered.
ITN 3324 NETWORK DIRECTORY SERVICES 4 CR. (4 LEC.)
Prerequisites: ITN 3113 Windows System Administration, and ITN 3133 Linux System Administration.
Acquire the skills and knowledge to install and configure LDAP-compatible directory services on various platforms in a multi-vendor network environment.

ITN 4334 NETWORK APPLICATIONS 4 CR. (4 LEC.)
Prerequisite: ITN 3324 Network Directory Services.
Provides student with knowledge of distributed TCP/IP-based client-server applications and services. The student creates a simple client-server application and learn to implement and configure Web, file transfer, email, and remote-management services.

ITN 4344 NETWORK SECURITY AND FIREWALLS 4 CR. (4 LEC.)
Prerequisite: ITN 3234 Internetworking III.
Helps student to acquire the knowledge and ability to identify and analyze security requirements for a network, including security threats, authentication procedures, encryption standards, and firewall implementations. Learners design and implement network security policies.

ITN 4353 NETWORK ANALYSIS AND DESIGN 3 CR. (3 LEC.)
Prerequisite or corequisite: ITN 3234 Internetworking III.
An opportunity to design a complete network system to meet the needs of an organization. Focuses on designing solutions to meet business requirements, testing of the solutions, and presenting the solutions to management. The student to integrates information from all of the previous units to create a complete network design solution.

ITP Information Technology - Programming

ITP 3133 ARTIFICIAL INTELLIGENCE 3 CR. (3 LEC.)
Prerequisite: ITP 3413 Data Structures.
A wide overview of the evolution of the Artificial Intelligence techniques and applications. Introduces different paradigms for problem solving, and one or more of the key areas such as expert systems, neural networks, robotics, logic programming, intelligent agents, machine learning, natural language processing and simulation. Students design, develop, and implement a system utilizing techniques of Artificial Intelligence to reinforce the areas of study.

ITP 3213 ASSEMBLER 3 CR. (3 LEC.)
Prerequisite: ITP 3634 Enterprise Java Programming and ITP 3223 C++.
Allows the student the opportunity to learn assembly language and understand how the computer executes programs on a very low level.

ITP 3223 C++ 3 CR. (3 LEC.)
Prerequisite: ITP 3413 Data Structures.
Provides the student with knowledge of the C++ programming language (using the concepts of programming learned earlier) and will then implement, using a different programming language. Elements of both object-oriented and structured techniques are presented and used.

ITP 3233 VISUAL BASIC 3 CR. (3 LEC.)
Prerequisite: ITP 3413 Data Structures.
Visual Basic programming concepts/techniques are implemented using object-oriented concepts, graphical user interfaces, event handling, exception handling, files, and streams.

ITP 3243 COBOL 3 CR. (3 LEC.)
Prerequisite: ITP 3243 COBOL.
Introductory course in the COBOL programming language. The student will use the concepts of programming learned earlier and implements them using COBOL.

ITP 3253 ADVANCED COBOL 3 CR. (3 LEC.)
Prerequisite: ITP 3243 COBOL.
Using concepts of COBOL programming learned earlier and implementing them using a different programming language. Focus is mainly on structured programming techniques, but new object-oriented additions and some Visual Basic programming are introduced.

ITP 3263 VISUAL C++ 3 CR. (3 LEC.)
Prerequisite: ITP 3223 C++.
Expands the students' knowledge of programming from C++ level to a more advanced, graphical-use level with Visual C++ programming language. The mastery
of this language is essential to continue development of object-oriented programming.

**ITP 3313 SYSTEMS PLANNING AND ANALYSIS** 3 CR. (3 LEC.)
Prerequisites: ITC 2513 Data Modeling and ITC 2334 Advanced Programming.
First of three system-development courses. The systems development life cycle (SDLC) is introduced, and the first two phases are implemented with a project the student will propose and develop. In the systems planning phase, the student will examine a business and a project and do some feasibility and cost analysis evaluations. In the systems analysis phase, both structured and object-oriented techniques are presented. The student may choose how to implement the project.

**ITP 3323 SYSTEMS DESIGN** 3 CR. (3 LEC.)
Prerequisite: ITP 3313 Systems Planning and Analysis.
Second of three units dealing with system development. This unit deals with the systems design phase of the SDLC. Student will implement systems design for the ongoing project. A systems design specification document and presentation are required.

**ITP 3413 DATA STRUCTURES** 3 CR. (3 LEC.)
Prerequisite: ITC 2334 Advanced Programming.
Presents the programming area of data structures using Java programming. The data structures used include linked lists, stacks, queues, recursion, binary trees, and hashing techniques. Also, examined is the identification of the appropriate use of data structures from data characteristics.

**ITP 4113 .NET APPLICATION PROGRAMMING** 3 CR. (3 LEC.)
Prerequisite: ITC 2334 Advanced Programming.
Designed to help application developers understand the Microsoft .NET Framework. In addition to offering an overview of the .NET Framework and an introduction to key concepts and terminology, the course provides a series of labs, which introduce and explain .NET Framework features that are used to code, debug, tune, and deploy applications.

**ITP 4213 WEB SERVICES** 3 CR. (3 LEC.)
Prerequisite: ITC 3634 Enterprise Java Programming.
Provides a standard means of interoperating between different software applications, running on a variety of platforms and/or frameworks. Web services are characterized by their great interoperability and extensibility by the use of XML, and they can then be combined in a loosely coupled way in order to achieve complex operations. Programs providing simple services can interact with each other in order to deliver sophisticated added-value services.

**ITP 4333 SYSTEMS IMPLEMENTATION, OPERATION, AND SUPPORT** 3 CR. (3 LEC.)
Prerequisite: ITP 3323 Systems Design.
Covers the last two phases of the SDLC - systems implementation and systems operation and support. Students will implement, test, and document their projects throughout the systems courses, write an installation plan, lead a training session on the project, but will not actually install the final product.

**ITW Information Technology - Web Developer**

**ITW 3123 WEB GRAPHICS** 3 CR. (3 LEC.)
Prerequisite: ITC 1143 Website Design.
Provides basic knowledge/skills to create graphic and multimedia content for the Web.

**ITW 3253 CLIENT SIDE – SCRIPTING – JAVASCRIPT** 3 CR. (3 LEC.)
Prerequisite: ITF 3634 Enterprise Java Programming.
Presents the fundamentals of scripting and advanced webpage design using JavaScript. Functions, methods, and program flow are emphasized in creating an interactive webpage and uploading it to a Web server.

**ITW 4213 .NET WEB TECHNOLOGIES** 3 CR. (3 LEC.)
Prerequisite: ITC 2334 Advanced Programming.
Provides the student with an opportunity to develop web applications using the Microsoft .Net framework. Topics include basic and advanced controls, ASP server controls, validation, and web data access.

**ITW 4263 SERVER-SIDE WEB APPLICATIONS** 3 CR. (3 LEC.)
Prerequisite: ITC 2334 Advanced Programming.
Provides learner with the knowledge and skills to create dynamic web content using current scripting languages and web technologies.
LAW

LAW 2003 LEGAL ENVIRONMENT OF BUSINESS 3 CR. (3 LEC.)
Prerequisite: sophomore standing.
Covers the legal business environment as it affects the consumer, employees, investors, government regulations, business ethics, marketing practices, and international transactions. (ACTS: BLAW 2003)

LAW 4023 LEGAL ISSUES IN HUMAN RESOURCES 3 CR. (3 LEC.)
Prerequisites: LAW 2003 Legal Environment of Business, MGMT 3153 Organizational Behavior and admission to the College of Business, or consent of instructor.
Legal issues that confront human resource professionals and management personnel. Areas covered include, employment at will, privacy laws, sexual harassment, disability claims, compensation, occupational safety, civil rights, medical leave and discrimination. May be used as an upper-level LAW or MGMT elective.

LAW 4033 LAW OF COMMERCIAL TRANSACTIONS 3 CR. (3 LEC.)
Prerequisite: LAW 2003 Legal Environment of Business and admission to the College of Business, or consent of instructor.
Business-related legal subject matter reflecting marketplace problems and considerations. Topics include the law of sales, secured transactions, commercial paper, contracts, and bankruptcy.

LAW 4043 LAW OF BUSINESS ORGANIZATIONS 3 CR. (3 LEC.)
Prerequisite: LAW 2003 Legal Environment of Business and admission to the College of Business, or consent of instructor.
Business-related legal subject matter reflecting marketplace problems and considerations. Topics include the law of corporations, partnerships, agency, and property.

LAW 4053 LAW FOR ENTREPRENEURS 3 CR. (3 LEC.)
Prerequisites: LAW 2003 Legal Environment of Business and admission to the College of Business, or consent of instructor.
Provides an overview of the key legal issues faced by entrepreneurs and senior managers as they attempt to start, grow and protect a for-profit concern. Topics include sources and methods of funding; developing and protecting intellectual property; ownership structures and entity choice; marshalling human resources, and operational liabilities. Course can also count as MKTG elective for marketing majors.

LAW 447V INDEPENDENT STUDY IN LAW 1 - 3 CR. (VARIABLE)
Prerequisites: admission to the College of Business, and consent of instructor and department head.
Prerequisite or corequisite: may vary depending on topic.
Individual problems or topics in law arranged in consultation with instructor. May be repeated for a maximum of six hours.

LAW 457V SPECIAL TOPICS IN LAW 1 - 3 CR. (VARIABLE)
Prerequisites: admission to the College of Business or consent of instructor.
Prerequisite or corequisite: may vary depending on topic.
Topics and current issues of critical importance to the field of Business Law. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of 9 hours.

LEAD Leadership

LEAD 3603 FOUNDATIONS OF ORGANIZATIONAL LEADERSHIP 3 CR. (3 LEC.)
Prerequisite: junior standing and instructor or consent of department head.
Nature of leadership with a focus on the history, origins, and theoretical approaches. Application of concepts to life experiences addressed.

LEAD 3623 PROFESSIONAL COMMUNICATION 3 CR. (3 LEC.)
Prerequisite: LEAD 3603 Foundations of Organizational Leadership.
Communication in the workplace within a framework of organizational ethics. Essential components and course content include: listening, verbal and nonverbal communication, written expression, and professional presentation methods.
LEAD 4603
LEADING WITH INTEGRITY  
3 CR. (3 LEC.)
Prerequisite: LEAD 3603 Foundations of Organizational Leadership.
Examines the dynamics of workplace and personal ethics through the study of basic philosophical theories. Essential components and course content include: leadership in the context of self-governance; responsibility; adherence to principles; integrity; and constancy of purpose.

LEAD 4623 TRANSFORMATIONAL LEADERSHIP AND INNOVATION  
3 CR. (3 LEC.)
Prerequisite: LEAD 3603 Foundations of Organizational Leadership.
Contemporary issues driving new organizational models in businesses today including globalization and technology. Transformational leadership will be examined.

LEAD 4693 DIMENSIONS OF ORGANIZATIONAL LEADERSHIP – CAPSTONE  
3 CR. (3 LEC.)
Prerequisites: LEAD 3603 Foundations of Organizational Leadership and consent of instructor.
Creation of an “action-learning” plan that provides an opportunity to integrate leadership concepts and practices covered in the core coursework with work experiences. Students design and implement a capstone project culminating in a written and oral presentation. This course must be taken in the student’s final enrollment period.

LEAD 490V SPECIAL TOPICS  
1-3 CR. (VARIABLE)
Prerequisite: LEAD 3603 Foundations of Organizational Leadership and consent of department head.
Topics and current issues of critical importance to the organizational leadership field. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated, when topics differ for a total of nine hours.

LEAD 493V ORGANIZATIONAL LEADERSHIP: INDEPENDENT STUDY  
1-3 CR. (VARIABLE)
Prerequisite: LEAD 3603 Foundations of Organizational Leadership and consent of instructor.
Individual topics in organizational leadership arranged in consultation with instructor. May be repeated, when topics differ for a total of nine hours.

LEAD 495V ORGANIZATIONAL LEADERSHIP INTERNSHIP  
1-3 CR. (VARIABLE)
Prerequisite: LEAD 3623 Professional Communication and consent of instructor.
Supervised professional-level assignment with an organization, firm, government agency, or not-for-profit entity within the selected area of focus. May be repeated, when topics differ for a total of nine hours.

LEGL  Legal Assistance/Paralegal

LEGL 1043 INTRODUCTION TO LAW  
3 CR. (3 LEC.)
Prerequisite or corequisite: ENGL 1203 Freshman English I or consent of department head.
Introduces students to the American legal system and provides a broad view of the various substantive areas of law. Emphasis on the role of the legal assistant in that structure and the development of needed skills in the profession.

LEGL 1104 LEGAL RESEARCH  
4 CR. (4 LEC.)
Designed to help students develop the fundamental skills needed to conduct efficient and accurate legal research. This class will be taught primarily in the Sebastian County law library as an on-site lab course.

LEGL 190V LEGAL ASSISTANCE WORK-BASED LEARNING  
1-4 CR. (VARIABLE)
Prerequisite: consent of department head.
Cooperative effort between a legal employer and the department establishing an internship integrating various paralegal skills and legal knowledge into a comprehensive educational experience reflective of actual paralegal job requirements and experiences. The department approves the experience and number of credit hours to be earned. May be repeated for a total of four credit hours.

LEGL 2133 TORTS  
3 CR. (3 LEC.)
Prerequisites or corequisites: LEGL 1043 Introduction to Law and LEGL 1104 Legal Research or consent of department head.
Covers tort law and includes the topics of negligence, intentional torts, strict and product liability, personal injury litigation, and insurance. Investigation, legal interviewing, pretrial preparation, and settlement of tort cases will be included.
LEG 2143 LEGAL WRITING 3 CR. (3 LEC.)
Prerequisites: LEGL 1043 Introduction to Law, LEGL 1104 Legal Research, and ENGL 1213 Freshman English II, or consent of department head.
Focus is on legal analysis and research. Using actual case situations and a variety of legal resources, students identify and address the inherent issues. Includes preparing and writing interoffice memorandum, briefs and other legal documents.

LEG 2162 EMPLOYMENT LAW 2 CR. (2 LEC.)
A detailed study of employment law, including benefits for the former employee. Topics include the employment-at-will doctrine: the rights, duties, and liabilities of the employer and employee, discrimination in employment (including the Americans with Disabilities Act), workers’ compensation, and Social Security Administrative law. Students will become familiar with legal documentation related to this field.

LEG 2252 FAMILY LAW 2 CR. (2 LEC.)
Prerequisite: LEGL 2133 Torts or consent of department head.
Covers matters of domestic law, including the formation and dissolution of marriage, marital property, child custody and support, and other related matters. Students will draft appropriate legal documents.

LEG 2323 CIVIL LITIGATION 3 CR. (3 LEC.)
Prerequisites or corequisites: LEGL 2133 Torts, LEGL 1104 Legal Research and LEGL 1043 Introduction to Law, or consent of department head.
Intensive study of civil procedures including federal and state rules. Emphasis on the functions and duties of legal assistants in the litigation process, with special attention paid to the interviewing of clients, drafting of pleadings, writing of motions and discovery documents, and preparation and filing of other legal documents.

LEG 2382 LEGAL ETHICS 2 CR. (2 LEC.)
Prerequisites or corequisites: LEGL 2133 Torts and LEGL 2143 Legal Writing or consent of department head.
Professional conduct for attorneys and legal assistants, the client-lawyer relationship, and the confidentiality of information. Special focus is given to the Arkansas Model Rules of Professional Conduct for Attorneys, and the National Association Legal Assistant’s Code of Conduct.

LEG 2553 REAL ESTATE LAW 3 CR. (3 LEC.)
Prerequisite: LEGL 2133 Torts or consent of department head.
Covers real property and common types of real estate transactions and conveyances. Preparation of legal instruments including deeds, contracts, leases, deeds of trust, and mortgages will be studied.

LEG 2622 OIL AND GAS LAW 2 CR. (2 LEC.)
Presents fundamental principles of oil, gas, and mineral law to prepare student to work as a legal assistant in the oil and gas area and provide training for those employed in the industry. Offered on demand.

LEG 2643 COMMERCIAL LAW 3 CR. (3 LEC.)
Prerequisite: LEGL 2323 Civil Litigation or consent of department head.
An intensive study of the business law of commercial transactions. Topics include contract law, the debtor-creditor relationship, sales, commercial paper, and secured transactions. The student will be taught specific skills in the drafting of appropriate U.C.C. documents.

LEG 2713 BANKRUPTCY 3 CR. (3 LEC.)
Fundamentals of bankruptcy law. Emphasis will be on practical aspects of bankruptcy proceedings including the drafting of bankruptcy petitions, plans, objections, confirmations, asset and exemption listings and training in the bankruptcy court's procedures, and requirements for the e-filing of documents.

LEG 2723 CRIMINAL LAW 3 CR. (3 LEC.)
Prerequisite: LEGL 1043 Introduction to Law or consent of department head.
Familiarizes the student with fundamental principles and tasks that a paralegal would be required to know and undertake in a criminal law practice or public agency. Preparation of specific legal documents will be studied.

LEG 2753 WILLS, TRUSTS, AND PROBATE 3 CR. (3 LEC.)
Prerequisite: LEGL 2323 Civil Litigation or consent of department head.
Intensive study of testate and intestate inheritance, with special focus on the laws of Arkansas and Oklahoma. Emphasis is placed on the acquisition of knowledge and skills a paralegal would need. Students will become familiar with techniques for fact gathering, inheritance and estate tax principles, use of trusts, will drafting, and probate procedures.
LEG 2762  JUVENILE LAW 2 CR. (2 LEC.)
Prerequisites: LEGL 1043 Introduction to Law and LEGL 2252 Family Law.
Prerequisites or Corequisites: LEGL 2723 Criminal Law, LEGL 2133 Torts, or consent of department head.
Examines the different rights and legal protections afforded to juveniles and contrasts them with their adult counterparts. Teaches paralegal students about the juvenile court system and the different types of issues they will face in dealing with the juvenile system and representation of juvenile clients.

LEG 2772  BUSINESS ORGANIZATIONS 2 CR. (2 LEC.)
Prerequisites: LEGL 2323 Civil Litigation or consent of department head.
A detailed study of the variety of business organizations. Special emphasis is given to the practical aspects of the preparation and completion of documents which relate to partnerships and corporations.

LEG 2823  TRIAL PRACTICE 3 CR. (3 LEC.)
Prerequisite or corequisite: LEGL 2323 Civil Litigation or consent of department head.
A detailed study of pre-trial, trial and post-trial procedures for the advanced legal assistant student. Special emphasis will be placed on the actual drafting of pleadings, discovery documentation, motion practice, appellate documents and the research and writing of briefs & legal memorandum.

LPN  Practical Nursing
Enrollment in courses beginning with LPN prefix requires admission to the practical nursing program.

LPN 118A  FUNDAMENTALS I 10 CR. (6 LEC., 20 LAB)
Prerequisite: CPR Certification: American Heart Association “CPR for Healthcare Providers.”
Prerequisite or corequisite: BIOL 1433/1431 Basic Anatomy and Physiology/Lab.
First eight weeks serve as an introduction to the fundamental principles, skills, attitudes, and common procedures used to give safe nursing care. Included are the basic concepts of vocational, legal, and ethical nursing issues and concepts of mental health, nutrition, and pharmacology.

LPN 119A  FUNDAMENTALS II 10 CR. (6 LEC., 20 LAB)
Prerequisites: LPN 118A Fundamentals I and CPR Certification: American Heart Association “CPR for Healthcare Providers.”
Prerequisite or corequisite: BIOL 1433/1431 Basic Anatomy and Physiology/Lab.
This eight-week course is an introduction to conditions of illness, including advanced concepts of mental health and pharmacology. Clinical laboratory experience includes care of the geriatric patient and the patient with basic medical illnesses.

LPN 121A  MEDICAL/SURGICAL I 10 CR. (6 LEC., 20 LAB)
Prerequisite or corequisite: HLTH 1473 Medical Terminology.
An eight-week course that includes theory/clinical experience in nursing care needed by patients in acute or sub-acute, or convalescent stages of illness. Emphasis is placed on advanced medical conditions and common surgical conditions including the principles of first aid.

LPN 122A  MEDICAL/SURGICAL II 10 CR. (6 LEC., 20 LAB)
Prerequisite or corequisite: HLTH 1473 Medical Terminology.
An eight-week course that includes theory/clinical experience in nursing care needed by patients in acute, sub-acute, or convalescent stages of illness. Emphasis is placed on advanced medical conditions and common surgical conditions including the principles of first aid.

LPN 123E  MEDICAL/SURGICAL III WITH SPECIALTIES 14 CR. (8 LEC., 30 LAB)
Prerequisites: LPN 118A and 119A Fundamentals I and II, LPN 121A and LPN 122A Medical/Surgical I and II, BIOL 1433/1431 Basic Anatomy and
Physiology/Lab, HLTH 1473 Medical Terminology, and CPR Certification: American Heart Association, “CPR for Healthcare Providers.”

A ten-week course that includes theory and clinical experience in nursing care of the new mother and infant with emphasis on the normal pregnancy cycle and the normal newborn. Theory and clinical experience in the care of children (infants to adolescents), with emphasis on meeting the needs of the ill or healthy child and adapting skills and procedures to a particular patient, are included in this course. Also included are theory and clinical experience of patients with medical, surgical, and mental health conditions.

### MACH  Machine Tool Technology

**MACH 1235 BASIC MACHINE TECHNOLOGY**  
5 CR. (2 LEC., 6 LAB)

Provides for the care and operation of basic manual machine tools, and measuring instruments such as drill presses, lathe cutting tools, vertical milling machine tools, and bench grinders. Basic blue print reading and shop safety procedures are also introduced.

**MACH 1285 MACHINE TECHNOLOGY SET-UP AND OPERATION**  
5 CR. (2 LEC., 6 LAB)

Prerequisite: MACH 1235 Basic Machine Technology or consent of department head.

Includes information regarding the set-up and operation of milling and drilling machines. Topics include precision part layout and inspection of drilling, tapping, reaming, boring and surface finishes.

**MACH 1385 MACHINE PROCESSES**  
5 CR. (2 LEC., 6 LAB)

Prerequisite: MACH 1285 Machine Technology Set-Up and Operation or consent of department head.

Provides instruction and practice in special layout and machine set-up. Introduces students to the use of the rotary table, steady rest, follower rest and indexing heads.

**MACH 1425 DIEMAKING**  
5 CR. (2 LEC., 6 LAB)

Prerequisite: MACH 1285 Machine Technology Set-Up and Operation and MACH 1385 Machine Processes, or consent of department head.

Designed to provide knowledge and training necessary to understand basic die theory and how metal dies are constructed. Primary die components such as punches, punch plates, die blockers and strippers will be utilized to design and build a functional die.

**MACH 1455 COMPUTER NUMERICAL CONTROL I**  
5 CR. (2 LEC., 6 LAB)

Prerequisite: MACH 1285 Machine Technology Set-Up and Operation, or MACH 1385 Machine Processes, or consent of department head.

Designed to introduce automated methods of the machine industry, specifically Computer Numerical Control. Fundamentals include the Cartesian Rectangular Coordinate System, part programming using both absolute and incremental methods. Editing and program management will be taught.

**MACH 1555 COMPUTER NUMERICAL CONTROL II**  
5 CR. (2 LEC., 6 LAB)

Prerequisite: MACH 1455 Computer Numerical Control I or consent of department head.

Designed to expand the students’ knowledge and skills in Computer Numerical Control manufacturing, with attention to job planning, multiple part set-ups and programming, tool changes within a program, and inspection and control of the manufactured part. The proper use of coolants, spindle speeds, and feed rates as applied to CNC will also be covered.

**MACH 190V MACHINE SHOP WORK-BASED LEARNING**  
1-4 CR. (VARIABLE)

Prerequisites: consent of department head, successful completion of 15 hours of coursework in major, successful completion of 30 hours overall, and a 2.75 GPA.

A comprehensive treatment of relevant work experience related to student’s major field of study. This course may be repeated until program requirements are met, or up to eight credit hours.

**MACH 290V MACHINING: SPECIAL TOPICS**  
1-5 CR. (VARIABLE)

Prerequisite: consent of department head.

Special instruction for new and emerging topics in machining that are not otherwise covered in the curriculum. Topics in these emerging technologies will be offered periodically based on the recognized needs of the field and the availability of instruction. May be repeated for a total of five hours.
MACH 299V MACHINING: SPECIAL PROJECTS 1-3 CR. (VARIABLE)
Prerequisite: consent of department head.
Designed for the advanced machining student who has completed or is enrolled in all other appropriate machining courses offered at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated, when topics differ, for a total of five hours.

MATH  Mathematics

On a degree plan or in a course description, there may be the statement “MATH 1403 or higher”. This means completion of a math class that has MATH 1403 as the prerequisite will satisfy the requirement.

MATH 0233 BEGINNING ALGEBRA 3 CR. (3 LEC.)
Prerequisite: required placement score.
Introduces student to basic concepts of beginning algebra. Consists of three major sections, linear equations and inequalities, graphing and functions, and polynomials.

MATH 0234 BEGINNING ALGEBRA WITH PRE-ALGEBRA 4 CR. (4 LEC.)
Prerequisite: Compass test score of CMMI 25-53.
A competency based course that introduces the student to the basic concepts of Beginning Algebra. Consists of four major sections: pre-algebra, linear equations and inequalities, graphing and functions, and polynomials.

MATH 1133 TECHNICAL MATHEMATICS 3 CR. (3 LEC.)
Prerequisite: MATH 0233 Beginning Algebra or required placement score.
Topics include calculator operations, scientific notation, traditional and metric measurement, basic properties of geometry, basic algebraic manipulations, solving linear equations, descriptive statistics, and graphing. A scientific graphing calculator and a computer spreadsheet will be used. Industrial and practical applications emphasized. Contextualized for students in occupational and technical programs.

MATH 1203 INTERMEDIATE ALGEBRA 3 CR. (3 LEC.)
Prerequisite: MATH 0233 Beginning Algebra or MATH 0234 Beginning Algebra with Pre-algebra, or required placement score.
Competency-based course provides a transition from basic concepts in algebra to college-level algebraic concepts. It includes rational functions, radical functions, quadratic functions, and transitional topics include graphing of functions including quadratics, polynomials of second degree or higher and quadratics; solving quadratic equations and inequalities; and understanding and using the graphing calculator.

MATH 1303 COLLEGE MATHEMATICS 3 CR. (3 LEC.)
Prerequisite: MATH 1203 Intermediate Algebra or required placement score.
A project-oriented course designed to cultivate an appreciation of mathematics as an integral part of our world and to develop mathematical reasoning. (ACTS: MATH 1003)

MATH 1333 NUMBER SENSE AND DATA ANALYSIS I 3 CR. (3 LEC.)
Prerequisites: MATH 1203 Intermediate Algebra or required placement score, and ECED major.
Designed for prospective early childhood teachers. Students study the connections among elementary numerical ideas and the instantiation of pedagogical methods used by current practitioners. The mathematical content domains involve common core standards concepts associated with number theory, problem solving, probability, statistics, and computation involving integers, fractions, and decimals.

MATH 1343 NUMBER SENSE AND DATA ANALYSIS II 3 CR. (3 LEC.)
Prerequisites: MATH 1333 Number Sense and Data Analysis I.
Students study the connections among elementary numerical ideas and the instantiation of pedagogical methods used by current practitioners. The mathematical content domains involve common core standards concepts associated with number theory, problem solving, probability, statistics, and computation involving integers, fractions, and decimals.

MATH 1403 COLLEGE ALGEBRA 3 CR. (3 LEC.)
Prerequisite: MATH 1203 Intermediate Algebra or required placement score.
Modeling and problem solving using linear, quadratic, polynomial, rational functions, exponential, and logarithmic functions, equations, and inequalities; graphing, systems of equations, and matrices. (ACTS: MATH 1103)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>MATH 1403X</td>
<td>COLLEGE ALGEBRA (EXTENDED FORMAT)</td>
<td>3 CR. (5 LEC.)</td>
<td>Prerequisite: MATH 1203 Intermediate Algebra or required placement score. This course covers the same topics as the traditional College Algebra, but in an expanded time format allowing for increased guided learning activities and learner/instructor interaction. Topics include modeling and problem solving using linear, quadratic, polynomial and rational functions, exponential and logarithmic functions, equations, and inequalities; graphing, systems of equations, and matrices.</td>
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<tr>
<td>MATH 1406</td>
<td>INTEGRATED INTERMEDIATE AND COLLEGE ALGEBRA</td>
<td>6 CR. (6 LEC.)</td>
<td>Prerequisite: MATH 0233 Beginning Algebra or required placement score for MATH 1203 Intermediate Algebra. Provides an alternative to taking separate courses in Intermediate Algebra (MATH 1203) and College Algebra (MATH 1403), consisting of all the topics included in both -courses seamlessly integrated into one course. Major topics include -properties of -formulas, tables, and graphs, basic -algebraic properties and manipulations, solving equations and inequalities, -mathematical modeling, and applications in the -following areas: relations and functions, linear functions, properties of exponents, radicals, complex numbers, and power functions, transformations of relations, quadratic functions, exponential and logarithmic functions, polynomial functions, and rational functions. Course transfers as Intermediate and College Algebra. Since Intermediate Algebra will not -usually transfer for bachelor's-level credit, this course transfers as three hours of -bachelor's-level credit.</td>
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<tr>
<td>MATH 1453</td>
<td>PLANE TRIGONOMETRY</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: MATH 1403 College Algebra or required placement score. The theory of trigonometric and circular functions and the study of their applications. Topics include graphs, identities, and equations involving trigonometric functions, inverse trigonometric functions, triangles, vectors, polar coordinates, and polar representations of complex numbers. (ACTS: MATH 1203)</td>
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<tr>
<td>MATH 1715</td>
<td>PRECALCULUS MATHEMATICS</td>
<td>5 CR. (5 LEC.)</td>
<td>Prerequisite: MATH 1403 College Algebra or required placement score. Designed for students in majors requiring MATH 2804 Calculus I, course covers advanced topics from algebra specifically necessary for calculus and covers the concepts of plane trigonometry, emphasizing circular functions of real numbers. Emphasizes the creation and analysis of mathematical formulas to model physical situations. Concepts covered include polynomial, rational, exponential, logarithmic, and trigonometric functions and equations, inverse functions, complex numbers in rectangular and trigonometric form, systems of equations, matrices, determinants, triangles, identities, and vectors. (ACTS: MATH 1305)</td>
</tr>
<tr>
<td>MATH 1903</td>
<td>INTRODUCTORY DISCRETE MATHEMATICS</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite or corequisite: MATH 1453 Plane Trigonometry, or MATH 1715 Precalculus Mathematics, or required placement score. Develops the foundations of discrete mathematics, including its applications to computer science and information technology. Serves as an introduction to more advanced material necessary in higher level mathematics and computer science courses. Topics include a study of logic, sets, relations, functions, algorithms, counting methods, graph theory and trees, and basic number theory.</td>
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<tr>
<td>MATH 2233</td>
<td>GEOMETRY AND MEASUREMENT I</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: MATH 1343 Number Sense and Data Analysis II. Students study the connections among geometric and measurement ideas and the instantiation of pedagogical methods used by current practitioners at the Pre-K through 4th grade level. The mathematical content domains involve common core concepts associated with congruence, area, volume, and topology using transformational geometry, coordinate geometry, spherical geometry and traditional Euclidean geometry.</td>
</tr>
<tr>
<td>MATH 2243</td>
<td>GEOMETRY AND MEASUREMENT II</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: MATH 2233 Geometry and Measurement I. Students study the connections among geometric and measurement ideas and the instantiation of pedagogical methods used by current practitioners at the Pre-K through 4th grade level. The mathematical content domains involve common core concepts associated with congruence, area, volume, and topology using transformational geometry, coordinate geometry, spherical geometry and traditional Euclidean geometry.</td>
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geometry, spherical geometry and traditional Euclidean geometry.

**MATH 2333**
**STRENGTHS OF ARITHMETIC 3 CR. (3 LEC.)**
Prerequisite: MATH 1203 Intermediate Algebra or required placement score.
Designed for prospective elementary teachers. Studies concepts associated with set theory, number theory, problem solving, probability, statistics, and computation involving integers, fractions, and decimals.

**MATH 2343**
**INFORMATION GEOMETRY 3 CR. (3 LEC.)**
Prerequisite: MATH 1203 Intermediate Algebra or required placement score.
A sophomore-level course designed to give students a basic understanding of the geometric concepts needed for teaching geometry at the elementary school level. It includes concepts associated with congruence, area, volume, and topology using transformational geometry, coordinate geometry, and traditional Euclidean geometry.

**MATH 2403**
**SURVEY OF CALCULUS 3 CR. (3 LEC.)**
Prerequisite: MATH 1403 College Algebra or required placement score.
Designed for students in majors other than the natural sciences, especially business and economics. It introduces the basic concepts of differential and integral calculus and their applications to algebraic, exponential, and logarithmic functions that occur in economics and marketing situations. This course does not satisfy degree requirements for mathematics, science, or engineering majors, nor does it satisfy the prerequisite for MATH 2854 Calculus II. (ACTS: MATH 2203)

**MATH 2702**
**MATHEMATICS TECHNOLOGY 2 CR. (1 LEC., 2 LAB)**
Prerequisite or corequisite: MATH 2854 Calculus II.
Writing and executing mathematical calculator programs using programming commands and structures on scientific graphing calculators. Introduction to calculator-based mathematical technology and mathematical software packages including spreadsheets, typesetters, graphing programs, geometry software, computer algebra systems, and computer applets.

**MATH 2753**
**FINITE MATHEMATICS 3 CR. (3 LEC.)**
Prerequisite: MATH 1403 College Algebra or required placement score.
Primarily for students majoring in business and economics. Deals with mathematics of finance and includes systems of linear equations and inequalities, optimization problems using simplex methods, matrices, mathematics of finance, probability, and introduction to elementary statistics and normal curve.

**MATH 2804**
**CALCULUS I 4 CR. (4 LEC.)**
Prerequisites: MATH 1403 College Algebra and MATH 1453 Plane Trigonometry, or MATH 1715 Precalculus Mathematics, or required placement score.
Topics include concepts, techniques, and applications of limits, continuity, derivatives, and integrals of algebraic, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Appropriate technology is used to discover relationships and to work problems not usually possible to work by hand. (ACTS: MATH 2405)

**MATH 2804H**
**CALCULUS I (HONORS) 4 CR. (4 LEC.)**
Prerequisites: MATH 1715 Precalculus Mathematics or required placement score.
Develops the standard topics of Calculus I from the perspective of the historical development of calculus and its reciprocating influence on society. Readings from original sources and extensive writing are required. Topics include concepts, techniques, and applications of limits, continuity, derivatives, and integrals of algebraic, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Appropriate technology is used to discover relationships and to work problems not usually possible to work by hand.

**MATH 2854**
**CALCULUS II 4 CR. (4 LEC.)**
Prerequisite: MATH 2804 Calculus I.
Physical applications of integration, techniques of integration, sequences and series, conic sections, parametric equations in two and three dimensions, and polar coordinates. Appropriate technology is used to discover relationships and work problems not usually possible to work by hand. (ACTS: MATH 2505)

**MATH 2904**
**CALCULUS III 4 CR. (4 LEC.)**
Prerequisite: MATH 2854 Calculus II.
Vectors and basic vector operations in two and three dimensions, lines and planes in space, cylindrical, and spherical coordinate systems, vector valued functions,
functions of several variables, partial derivatives, multiple integration, and line and surface integrals. (ACTS: MATH 2603)

**MATH 2914**  
**DIFFERENTIAL EQUATIONS**  
4 CR. (4 LEC.)  
Prerequisite: MATH 2904 Calculus III.  
A first course in differential equations. Topics include first-order equations, first-order and higher-order linear equations, Laplace transforms, systems of linear equations, and Eigenvectors. Applications problems are an integral part of the course.

**MATH 3103**  
**FOUNDATIONS OF MATHEMATICS**  
3 CR. (3 LEC)  
Prerequisite: MATH 1903 Introductory Discrete Mathematics.  
Prerequisite or corequisite: MATH 2854 Calculus II.  
Introduces fundamental concepts that underlie all branches of mathematics, preparing students for advanced theoretical courses in mathematics. The primary emphasis will be learning to write valid proofs of mathematical propositions. Topics include propositional calculus, sets, basic number theory, order and equivalence relations, cardinality, field axioms, limits, and complex numbers.

**MATH 3203**  
**APPLIED LINEAR ALGEBRA**  
3 CR. (3 LEC)  
Prerequisite or corequisite: MATH 2854 Calculus II.  
Systems of linear equations, vector spaces, linear transformations, matrices, and determinants.

**MATH 3205**  
**PURE MATHEMATICS**  
5 CR. (5 LEC.)  
Prerequisite: MATH 2854 Calculus II.  
Logic, sets, relations, functions, order relations, equivalence relations, factor sets, number cardinality, groups, rings, fields, completeness, and continuity. Structured around the construction of the real numbers as the complete ordered field, with key concepts examined in a variety of additional settings. Similarities across categories, such as structure preserving mappings and factor groups over kernels, will be emphasized.

**MATH 3303**  
**DISCRETE MATHEMATICS**  
3 CR. (3 LEC.)  
Prerequisites: MATH 3205 Pure Mathematics and MATH 2702 Mathematics Technology.  
Topics include a study of graph theory, trees, decision trees, critical path analysis, languages, Turing machines, combinatorics, efficiency of algorithms, logic, Boolean algebra, and social choice.

**MATH 3403**  
**COLLEGE GEOMETRY**  
3 CR. (3 LEC.)  
Prerequisite: MATH 1903 Introductory Discrete Mathematics or MATH 3205 Pure Mathematics.  
Classification and properties of geometric figures, Euclidean plane geometry as an axiomatic system, geometric proof, constructions, symmetry, geometric transformations, analytic geometry, measurement, three-dimensional Euclidean geometry, finite geometries, problem solving, elementary non-Euclidean geometries.

**MATH 3603**  
**MATHEMATICAL MODELING I**  
3 CR. (3 LEC.)  
Prerequisite: MATH 2914 Differential Equations.  
Provides an introduction to the mathematical modeling process and applies this process to problems that may be modeled with single- or multi-variable calculus, differential equations, or lower-level mathematics. Emphasis will be placed on connections of mathematics to application areas such as business, industry, economics, physical sciences, biological sciences, medicine, and social sciences. Students will integrate computer technology in generating reports on their projects.

**MATH 3803**  
**MATHEMATICS PEDAGOGY FOR NUMERICAL SYSTEMS**  
3 CR. (3 LEC., 1 LAB)  
Prerequisite: MATH 2333 Structures of Arithmetic.  
Prerequisite or corequisite: MATH 1903 Introductory Discrete Mathematics or MATH 3205 Pure Mathematics.  
Designed for pre-service or in-service secondary mathematics teachers. Covers selected mathematics topics, technological resources, and methods of teaching relevant to the secondary mathematics curriculum with an emphasis on engaging students in concepts ranging from middle level to Algebra 1. Candidates will engage in mathematics education research and study literacy-related strategies relating to the mathematical content. Requires classroom tutoring of secondary school students in a local area public school for a minimum of fifteen hours.

**MATH 3813**  
**MATHEMATICS PEDAGOGY FOR SPATIAL RELATIONS**  
3 CR. (3 LEC., 1 LAB)  
Prerequisite: MATH 2854 Calculus II.  
Designed for pre-service or in-service secondary mathematics teachers. Covers selected mathematics topics, technological resources, and methods of
teaching relevant to the secondary mathematics curriculum with an emphasis on engaging students in concepts ranging from basic spatial relations to rigorous proof in secondary Geometry. Candidates will engage in mathematics education research and study literacy-related strategies relating to the mathematical content. Requires classroom tutoring of secondary school students in a local area public school for a minimum of fifteen hours.

**MATH 3823 MATHEMATICS PEDAGOGY FOR UPPER SECONDARY MATHEMATICS 3 CR. (3 LEC, 1 LAB)**

Prerequisite: MATH 2854 Calculus II.

Designed for pre-service or in-service secondary mathematics teachers. Covers selected mathematics topics, technological resources, and methods of teaching relevant to the secondary mathematics curriculum with an emphasis on engaging students in concepts ranging from advanced algebra to calculus. Candidates will engage in mathematics education research and study literacy-related strategies relating to the mathematical content. Requires classroom tutoring of secondary school students in a local area public school for a minimum of fifteen hours.

**MATH 3901 MATHEMATICS SEMINAR 1 CR. (1 LEC.)**

Prerequisite: instructor approval.

Students will consider problems that cut across the boundaries of the standard courses and investigate general strategies of problem solving from several different branches of mathematics. Through active participation, students will discover new techniques for solving problems. In particular, students will learn strategies for approaching problems and identifying needed mathematical tools. The course will be graded pass/fail.

**MATH 4103 ADVANCED LINEAR ALGEBRA 3 CR. (3 LEC.)**

Prerequisite: MATH 3203 Applied Linear Algebra.

Topics include general vector spaces, linear transformations, inner products, matrices and matrix algebra, eigenvalues, eigenvectors, bilinear forms, orthogonal and unitary transformations, systems of linear equations, and determinants.

**MATH 4203 HISTORY OF MATHEMATICS 3 CR. (3 LEC.)**

Prerequisite: MATH 2854 Calculus II.

The history of mathematics from ancient times to the twentieth century with emphasis on three aspects: the development of mathematics throughout the centuries, mathematics as a human endeavor, and the history of mathematics as an educational tool.

**MATH 4303 REAL ANALYSIS I 3 CR. (3 LEC.)**

Prerequisite: MATH 3103 Foundations of Mathematics or MATH 3205 Pure Mathematics.

An introduction to the theory of calculus of one and several variables, limits, continuity, sequences, differentiation, integration, measure theory, and infinite series. Includes a brief introduction to metric spaces and general topological spaces.

**MATH 4403 ABSTRACT ALGEBRA 3 CR. (3 LEC.)**

Prerequisite: MATH 3103 Foundations of Mathematics or MATH 3205 Pure Mathematics.

A study of groups, rings, modules, and fields, subgroups, normal subgroups, quotient groups, abelian groups, groups of permutations, solvable and nilpotent groups, homomorphism, kernel, homomorphism groups, principal ideal domains, field extensions, and Galois theory.

**MATH 4433 GROUP THEORY 3 CR. (3 LEC.)**

Prerequisite: MATH 4403 Abstract Algebra.

Symmetric, alternating, and dihedral groups, direct sums and direct products, generators and relations, group actions, semi-direct products, the Sylow theorems, Sylow subgroups, nilpotent groups, solvable groups, homomorphism groups, fundamental theorem of finite abelian groups, automorphism groups, general linear groups, matrix representations of groups, and applications of group theory.

**MATH 4443 COMBINATORICS 3 CR. (3 LEC)**

Prerequisite: MATH 3103 Foundations of Mathematics or MATH 3205 Pure Mathematics.

Provides an overview of many of the fundamental ideas of combinatorics. Topics include a study of graph theory, recursion and generating functions, inclusion-exclusion, combinatorial designs and geometries, and algebraic combinatorics.

**MATH 4603 MATHEMATICAL MODELING II 3 CR. (3 LEC.)**

Prerequisites: MATH 2914 Differential Equations, MATH 3303 Discrete Mathematics, STAT 3503 Applied Mathematical Statistics I, MATH 3603 Mathematical Modeling I, and MATH 4103 Linear Algebra.

Mathematical models studied in this course may require knowledge of any area of mathematics normally included in an undergraduate curriculum. At least one model will be based on a problem that
is given to the class by a representative from business or industry. Emphasis will be placed on connections of mathematics to application areas such as business, industry, economics, physical sciences, biological sciences, medicine, and social sciences. Taught in a seminar format, students will research individual topics and present their research to the class and interested observers. Students will integrate computer technology in generating reports on their projects.

**MATH 4703 NUMERICAL ANALYSIS** 3 CR. (3 LEC.)

Prerequisite: MATH 3203 Applied Linear Algebra and one of the following: MATH 2702 Mathematical Technology, ITC 1323 Introductory Programming, or ITC 1373 Introduction to Programming for Engineers.

Development, analysis, computer implementation and application of basic numerical algorithms for solving scientific problems. Topics include fundamentals of numerical computation, error analysis, numerical solutions of nonlinear equations, direct and iterative methods for solving linear systems, interpolation and approximation of functions, numerical differentiation and integration, and numerical solution of ordinary differential equations. Computer programming as well as the use of software packages is required.

**MATH 4803 COMPLEX ANALYSIS** 3 CR. (3 LEC.)

Prerequisite: MATH 4303 Real Analysis I.

An introduction to complex analysis. Topics will include the arithmetic, algebra, and geometry of the complex number system and the complex plane, elementary functions of a complex variable, limits, the derivative, the integral, Cauchy’s Theorem, Cauchy’s Integral Formula, the Maximum Modulus Theorem, and series representations for functions.

**MATH 4853 INTRODUCTION TO TOPOLOGY** 3 CR. (3 LEC.)

Prerequisite: MATH 4303 Real Analysis I.

An introductory study of both point-set and algebraic topology. Point-set concepts covered include open, closed, finite, countable, and uncountable sets, order, product, subspace, metric, and quotient topologies, continuous functions, open and closed maps, homeomorphisms, connectedness, and compactness. Algebraic concepts include homotopy, homomorphism, chain maps, fundamental groups, homotopy groups, covering spaces, and homology.

**MATH 4913 PARTIAL DIFFERENTIAL EQUATIONS** 3 CR. (3 LEC.)

Prerequisite: MATH 2914 Differential Equations.

A first course in partial differential equations with emphasis on modeling problems with physical applications. Topics include first- and second-order equations, the method of characteristics, separation of variables, D’Alembert’s solution, the heat, wave, and Laplace equations, Fourier series, and Sturm-Liouville problems.

**MATH 4933 SPECIAL TOPICS IN MATHEMATICS AND STATISTICS** 3 CR. (3 LEC.)

Prerequisite or corequisite: consent of instructor.

Specific subject areas or current topics of interest in pure or applied mathematics, mathematics education, history of mathematics, or statistics. Topics are designed to meet the interest of students, to take advantage of the areas of expertise of the department faculty or a visiting professor, or to investigate a current problem or latest development in a mathematical application. As such, the content will vary depending on the instructor, interest of students and the current state-of-the-art. May be repeated, when topics vary, for a total of nine hours.

**MATH 4992 SENIOR PROJECT** 2 CR. (8 IND. STU.)

Prerequisite: mathematics major in senior standing or consent of instructor.

The student will work with a faculty advisor on a research project in mathematics. Based on the interests of the student and the available expertise of the faculty, the project may involve research in pure mathematics, mathematics education, the history of mathematics, or an application of mathematics to another discipline.

**MATH 495V MATHEMATICS INDEPENDENT STUDY** 1-3 CR. (IND. STU.)

Prerequisite: approval of Mathematics Undergraduate Research Committee.

Student will work independently on an open question in pure or applied mathematics. The project may involve the discovery of new abstract results or the application of existing mathematics in a new way. May be repeated for a total of six hours.
MEEG Mechanical Engineering

**MEEG 2023 INTRODUCTION TO MECHANICS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisites**: MATH 2904 Calculus III, PHYS 2903/2911 University Physics I/Lab.
  
  An introductory course covering basics of ENGN 2753 Statics and ENGN 2763 Dynamics. The topics include fundamentals in mechanics, forces, moments, equilibrium of particles and rigid bodies, kinematics and kinetics of particles.

**MEEG 2103 INTRODUCTION TO MACHINE ANALYSIS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisites**: PHYS 2903 University Physics I, ENGN 2753 Engineering Statics, CADD 1302 Graphics for Engineers.
  
  An introduction to kinematics and kinetics of mechanisms, static and dynamic forces, and gears and cam design and analysis.

**MEEG 2303 INTRODUCTION TO MATERIALS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisite or corequisite**: CHEM 1403/1401 College Chemistry I/Lab and MATH 2804 Calculus I.
  
  The study of chemical, physical, and electrical properties of materials using fundamental atomistic approach. The materials of interest are: metals, polymers, ceramics, and composites. The interactive relationship between structure, properties, and processing of materials will be emphasized. A number of experiments are performed.

**MEEG 2703 NUMERICAL METHODS I**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisite or corequisite**: MATH 2914 Differential Equations.
  
  Programming review, interpolation, curve fitting, optimization, computations with series, numerical integration, and the numerical solution of algebraic, transcendental, simultaneous, and differential equations.

**MGMT Management**

**MGMT 1201 PLANNING FOR SUCCESS**

- **Credits**: 1 CR (1 LEC.)
  
  Designed to increase the likelihood that students’ first and future semesters in college are successful, both academically and socially. Topics addressed include learning styles, study and test-taking skills, time management, group interaction, personal finance, advising, and library resources. The course will be taught by faculty in the College of Business.

**MGMT 1203 FOUNDATIONS OF BUSINESS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisite or corequisite**: ENGL 1203 Freshman English I.
  
  Combines and links primary fields of business study - management, marketing, finance, accounting, and economics - to offer students an integrative perspective of modern business in an environment of diversity and globalization. Taking an entrepreneurial focus, students learn how businesses are initiated, organized, and operated to serve key stakeholders.

**MGMT 2103 BASIC BUSINESS COMPUTING**

- **Credits**: 3 CR. (3 LEC.)
  
  Introduces the various productivity tools available in the Microsoft Office suite. Emphasis is on the functionality of Microsoft Excel, but basics of Word, Power Point, and Access are addressed. Topics are presented and applied in a business context.

**MGMT 2203 INTRODUCTION TO INTERNATIONAL BUSINESS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisites**: ENGL 1213 Freshman English II and SPCH 1203 Introduction to Speech Communication.
  
  Emphasizes the interdependence of countries and the changing business trends in the global environment. Students are introduced to world geography, socio-politics, global institutions, monetary and economic systems, trade and investment, and ways of entering new markets.

**MGMT 2863 BUSINESS COMMUNICATIONS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisites**: ENGL 1213 Freshman English II and SPCH 1203 Introduction to Speech Communication.
  
  The theories and principles of good oral, written, interpersonal, and group communication for business are studied. Simulated and real-world communication problems are used to emphasize the effect organizational settings have on the communication process. (ACTS: BUS 2013)

**MGMT 2963 BUSINESS STATISTICS**

- **Credits**: 3 CR. (3 LEC.)
- **Prerequisite**: MATH 1403 or higher MATH.
- **Prerequisite or corequisite**: demonstrated competency in business computing as defined by the College of Business.
  
  Statistical methods used in studying business.
and economic data, focusing on measures of central tendency and dispersion, probability, sampling, statistical inference, estimation, hypothesis testing, index numbers, regression, and correlation. (ACTS: BUS 2103)

MGMT 3033
NEW VENTURE CREATION 3 CR. (3 LEC.)
Prerequisite: admission to the College of Business or consent of instructor for majors outside of the College of Business.
Prerequisites or corequisites: MKTG 3013 Principles of Marketing Management, FIN 3713 Business Finance, and MGMT 3523 Operations Management.
Focuses on entrepreneurship and new venture creation as an essential business function. Course materials address the needs of start-up businesses.

MGMT 3133
SOCIAL RESPONSIBILITY AND ETHICS IN BUSINESS 3 CR. (3 LEC.)
Prerequisite: admission to the College of Business or consent of instructor.
Introduces students to methods used in business case analysis, issues entailed in business firms’ responsibilities to stakeholders, and frameworks used to identify ethical dilemmas and make appropriate decisions.

MGMT 3153
ORGANIZATIONAL BEHAVIOR 3 CR. (3 LEC.)
Prerequisites: junior standing and admission to the College of Business, or consent of instructor.
An interdisciplinary analysis of the relationships of individuals and groups within the context of the organization, blending concepts drawn from psychology, sociology, philosophy, and communication theory with basic managerial concepts.

MGMT 3173
HUMAN RESOURCE MANAGEMENT 3 CR. (3 LEC.)
Prerequisite: admission to the College of Business or consent of instructor.
Examines the human resource function within organizations from a strategic perspective. Emphasis placed on staffing, compensation, development, performance management, employee relations, safety and health, and the legal environment.

MGMT 3523
OPERATIONS MANAGEMENT 3 CR. (3 LEC.)
Prerequisites: MGMT 2963 Business Statistics, ACCT 2813 Managerial Accounting, a demonstrated competency in business computing as defined by the College of Business, and admission to the College of Business, or consent of instructor.
Operations Management introduces students to the operations function in manufacturing and services. Emphasis on decision making for continuous improvement of systems and processes for producing goods and services in a globally competitive environment focused on meeting customer needs in dynamic supply chains.

MGMT 3543 GLOBAL SUPPLY CHAIN MANAGEMENT 3 CR. (3 LEC.)
Prerequisites: MGMT 3523 Operations Management and MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
An examination of Global Supply Chain Management as an integrated approach to coordinating supply and demand management within and across companies/partners domestically and internationally to improve customer value and insure the firms’ survival.

MGMT 3613 LEADERSHIP 3 CR. (3 LEC.)
Prerequisite: MGMT 3153 Organizational Behavior and admission to the College of Business, or consent of instructor.
Leadership processes and application at the organization, group, and individual levels. Emphasis on team activities.

MGMT 3913
DECISION SUPPORT SYSTEMS 3 CR. (3 LEC.)
Prerequisites: ACCT 2813 Managerial Accounting, a demonstrated competency in Business Computing as defined by the College of Business, and admission to the College of Business, or consent of instructor.
Integrates student’s business knowledge, skills, and abilities with information technology systems requirements to manage and enable IT systems to support organization business decision processes. Provides a clear understanding of information technology (IT) in supporting and enabling the management and decision-making in organizations now and in the future. Stresses importance of non-IT manager’s leadership role and responsibilities. Emphasis placed on real-world, practical business-decision modeling with financial statements and break-even analysis, utilizing large data warehouses in server-PC environments.
MGMT 4163  
SMALL BUSINESS MANAGEMENT  3 CR. (3 LEC.)

Prerequisites: ACCT 2813 Principles of Managerial Accounting, MGMT 3523 Operations Management, MKTG 3013 Marketing.

The application of management, marketing, and finance to small business. The course addresses practical aspects of planning and organization, marketing, human resources, and financial control.

MGMT 4203  
INTERNATIONAL MANAGEMENT  3 CR. (3 LEC.)

Prerequisites: MGMT 3153 Organizational Behavior and admission to the College of Business, or consent of instructor.

Explores political strategies, challenges of operating in different cultures, and challenges in designing effective organizational structures for multinational business operations. Lectures, case studies, and in-class simulations are used to evaluate strategies for launching international operations, leveraging technology and knowledge for strategic advantage, and coordinating activities of geographically dispersed affiliates.

MGMT 447V INDEPENDENT STUDY IN MANAGEMENT  1-3 CR. (VARIABLE)

Prerequisites: Admission to the College of Business, MGMT 3153 Organizational Behavior, and approval of the instructor and department head.

Prerequisite or corequisite: May vary depending on topic.

Individual problems or topics in management arranged in consultation with instructor. May be repeated for a total of six hours.

MGMT 457V SPECIAL TOPICS IN MANAGEMENT  1-3 CR. (VARIABLE)

Prerequisites: Admission to the College of Business or consent of instructor.

Prerequisite or corequisite: May vary depending on topic.

Topics and current issues of critical importance to the field of management. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a maximum of 9 total hours.

MGMT 4613  
COMMUNITY LEADERSHIP  3 CR. (VARIABLE)

Prerequisite: MGMT 3613 Leadership, or consent of instructor.

Focuses on the application of leadership traits and processes to service learning projects. Students will work in teams to carry out a service project that they design and plan. Addresses use of student portfolios in self-reflection process. Emphasis on group and mentor activities.

MGMT 4813 STRATEGIC MANAGEMENT  3 CR. (3 LEC.)


Study of administrative processes under conditions of uncertainty, including an integrating analysis applied to all fields of business. Special emphasis given to policy determination at the management level. Course must be taken in residence at UAFS.

MILS  Military Science - Army ROTC

The U.S. Army offers the Military Science-Army ROTC program for interested UAFS students. Scholarships and financial assistance are available for interested, qualified students. For program and scholarship information, contact the UAFS Army ROTC office at (479) 788-7522. Interested students can enroll for courses through Student Advisement and Career Planning.

MILS 1001 FOUNDATION OF OFFICERSHIP  1 CR. (1 LEC., 1 LAB)

Introduces students to issues and competencies central to a commissioned officer’s responsibilities. Establishes framework for understanding officer, leadership, and Army values followed and “life skills” such as physical fitness and time management.

MILS 1011  
BASIC LEADERSHIP  1 CR. (1 LEC, 1 LAB)

Establishes foundation of basic leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting, techniques for improving listening, speaking skills, and an introduction to counseling.
MILS 2002 INDIVIDUAL LEADERSHIP STUDIES 2 CR. (2 LEC., 1 LAB)
Students identify successful leadership characteristics of self and others through observation and experiential learning exercises. Students record observed traits (good and bad) in a dimensional leadership journal and discuss observations in small group settings.

MILS 2012 LEADERSHIP AND TEAMWORK 2 CR. (2 LEC., 1 LAB)
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.

MILS 3004 LEADERSHIP AND PROBLEM SOLVING 4 CR. (4 LEC., 2 LAB)
Prerequisite: junior standing, plus one of the following conditions: MILS 1001 Foundation of Officership, MILS 1011 Basic Leadership, MILS 2002 Basic Leadership, and MILS 2012 Leadership and Teamwork, completion of ROTC leadership training course, veteran status, completion of basic training with any component of the U.S. Armed Forces, or the approval by professor of military science.

Students conduct a self-assessment of leadership style, develop a personal fitness regimen, and learn to plan and conduct individual/small-unit tactical training, while testing reasoning and problem-solving techniques. Students receive direct feedback on leadership abilities. The training is intended to prepare the student for the ROTC Advanced Camp experienced normally in the summer prior to the senior year of the fourth year of ROTC. Lecture three hours, laboratory three hours per week, plus three hours of physical training are conducted weekly. One weekend field training exercise is required per semester.

MILS 3014 LEADERSHIP AND ETHICS 4 CR. (4 LEC., 2 LAB)
Prerequisite: junior standing, plus one of the following conditions: MILS 1001 Foundation of Officership, MILS 1011 Basic Leadership, MILS 2002 Basic Leadership, and MILS 2012 Leadership and Teamwork, completion of ROTC leadership training course, veteran status; completion of basic training with any component of the U.S. Armed Forces, or the approval by professor of military science.

Excludes the role communications, values, and ethics play in effective leadership. Topics include ethical decision making, consideration of others, spirituality in the military, and survey of Army leadership doctrine. Emphasis on improving oral and written communication abilities. Lecture three hours, laboratory three hours, physical training three hours per week. Cadets plan and participate in one field training exercise per semester.

MILS 4004 LEADERSHIP AND MANAGEMENT 4 CR. (4 LEC., 4 LAB)
Prerequisites: MILS 3004 Leadership and Problem Solving and MILS 3014 Leadership and Ethics.
Develops student proficiency in planning and executing complex operations, functioning as a member of a staff, and mentoring subordinates. Students explore training management, methods of effective staff collaboration, and developmental counseling techniques. Lecture three hours, laboratory three hours, physical training three hours per week. Cadets plan and participate in one field training exercise per semester.

MILS 4014 OFFICERSHIP 4 CR. (4 LEC., 2 LAB)
Prerequisites: MILS 3004 Leadership and Problem Solving and MILS 3014 Leadership and Ethics.
Study includes case analysis of military law and practical exercises on establishing an ethical command climate. Students must complete a semester long senior leadership project that requires them to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Lecture three hours, laboratory three hours, physical training three hours per week. Cadets plan and participate in one field training exercise per semester.

MKTG  Marketing

MKTG 3013 PRINCIPLES OF MARKETING MANAGEMENT 3 CR. (3 LEC.)
Prerequisites: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics and admission to the College of Business, or consent of instructor.
A comprehensive introduction to the concepts, activities, and decisions involved in the marketing function. Student critical thinking, interpersonal communication, and leadership skills are enhanced via the strategic application of marketing mix variables (i.e., product development and management, promotion, distribution, and pricing).
### MKTG 3033 Integrated Marketing Communications 3 Cr. (3 Lec.)
- **Prerequisite:** MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- Emphasizes the role of advertising and other promotional mix elements in the integrated marketing communications program (IMC) of an organization. Attention is given to the various IMC tools used in contemporary marketing including advertising, direct marketing, Internet and interactive marketing, sales promotion, publicity, and public relations.

### MKTG 3043 E-Business Marketing 3 Cr. (3 Lec.)
- **Prerequisite:** MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- A comprehensive introduction to the strategic application of E-business technologies in the context of marketing decision making. The focus of the course is on how these evolving technologies can be best used to expand markets for products, better segment markers, customize marketing efforts, and strengthen relationships with customers.

### MKTG 3123 Consumer Behavior 3 Cr. (3 Lec.)
- **Prerequisites:** MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- Application of behavioral and social science theories, concepts, methods, and research findings to the understanding of consumer acquisition, consumption, and disposal behaviors as the basis of marketing decision making.

### MKTG 3133 Marketing Research 3 Cr. (3 Lec.)
- **Prerequisites:** MGMT 2963 Business Statistics, MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- Rigorous experience in the study and application of research design, data collection, data analysis, and data interpretation methodologies and techniques in the context of marketing decision making.

### MKTG 4003 Selling Strategies 3 Cr. (3 Lec.)
- **Prerequisites:** MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- Prerequisites or corequisites: MKTG 3123 Consumer Behavior and MKTG 3133 Marketing Research.
- A “hands-on” introduction to personal selling. Explores concepts and techniques of relationship selling - how salespeople and customers can develop a successful partnership. Sales fundamentals, such as prospecting, uncovering needs, delivering ideas and proposals, dealing with questions and closing the sale are addressed through proven sales practices and role-playing exercises.

### MKTG 4033 Services Marketing 3 Cr. (3 Lec.)
- **Prerequisites:** MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- Prerequisites or corequisites: MKTG 3123 Consumer Behavior and MKTG 3133 Marketing Research.
- Application of marketing principles and strategic decision making in the context of the delivery of service products (in both the consumer and business-business marketplace). Preparation for a managerial career in a services economy.

### MKTG 4203 International Marketing 3 Cr. (3 Lec.)
- **Prerequisites:** MKTG 3013 Principles of Marketing Management and admission to the College of Business, or consent of instructor.
- Examines opportunities and challenges faced by marketers conducting business on a multi-national or global scale. Focuses on effectively making decisions related to international marketing objectives, foreign market selection, market entry strategy, and adaptation of product, pricing, distribution, and integrated marketing communication strategies to best ensure long-term organizational success in each foreign market served.

### MKTG 447V Independent Study in Marketing 1-3 Cr. (Variable)
- **Prerequisites:** admission to the College of Business, MKTG 3013 Principles of Marketing Management, and approval of the instructor and department head.
- Prerequisite or corequisite: may vary depending on topic.
- Individual problems or topics in marketing arranged in consultation with instructor. May be repeated for a total of six hours.
MKTG 457V SPECIAL TOPICS IN MARKETING 1-3 CR. (VARIABLE)
Prerequisites: Admission to the College of Business or consent of instructor.
Prerequisite or corequisite: may vary depending on topic.
Topics and current issues of critical importance to the field of marketing. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.

MLED Middle School Education

MLED 3563 MIDDLE-SCHOOL CONCEPTS 3 CR. (3 LEC.)
Prerequisite: admission to teacher education.
Provides an understanding of middle-level students, curriculum, environment, organization, and teaching. Emphasis will be on an integrated curriculum and interdisciplinary approach to curriculum design.

MLED 4113 MIDDLE-LEVEL LITERACY AND LITERATURE 3 CR. (3 LEC.)
Prerequisite: admission to teacher education.
A study of literacy, language arts, and quality literature issues and methodologies appropriate for use in the middle childhood-level classroom.

MLED 4123 INTEGRATING METHODS IN MID-LEVEL SOCIAL STUDIES/LANGUAGE ARTS 3 CR. (3 LEC.)
Prerequisites: admission to teacher education.
Provides an understanding of middle-childhood, social studies/language arts integrated teaching strategies. The course focuses on the developmental social studies/language arts curriculum, and instruction and pedagogy for middle-level students.

MLED 4133 MEETING THE NEEDS OF DIVERSE LEARNERS IN THE MIDDLE CHILDHOOD SETTING 3 CR. (3 LEC.)
Prerequisite: admission to teacher education or possession of an initial or standard teaching license.
Designed for individuals who have completed or are in the process of completing the Early Childhood P-4 or a secondary 7-12 license and wish to add the endorsement to teach fifth and sixth grade. The purpose of the course is to assist candidates in working with middle childhood students with diverse needs and backgrounds by providing methods, materials, and strategies appropriate to grades 4-8 settings.

MLED 4143 INTEGRATING METHODS IN MID-LEVEL MATH/SCIENCE 3 CR. (3 LEC.)
Prerequisite: admission to teacher education.
Designed to provide an understanding of middle-level math/science integrated teaching strategies and planning for teaching in the middle school.

MLED 4153 MIDDLE CHILDHOOD TEACHING STRATEGIES AND CLASSROOM MANAGEMENT TECHNIQUES 3 CR. (3 LEC.)
Prerequisite: admission to teacher education or possession of an initial or standard teaching license.
Focuses on developmentally appropriate middle childhood teaching strategies and classroom management techniques in multicultural settings that encourage middle level children to become self-regulated learners individually and in groups. This course is designed to develop the teaching competencies necessary to ensure success in meeting state middle level licensure standards and in implementing best practices unique to a true middle school philosophy.

MLED 490A TEACHING IN THE MIDDLE-CHILDHOOD SCHOOL 10 CR. (34 LAB)
Prerequisite: admission to student internship.
Corequisite: EDUC 4802 Seminar in Education.
An intensive field experience that culminates the middle childhood program. Students spend time in middle-childhood school environments applying their knowledge and skills in reflective decision making with children, families, and school personnel. Requires an internship of 34 hours per week.

MUS Music - Private Instruction

Private instruction is offered in voice, piano, strings, woodwinds, brass and percussion to music majors.
Each student's level of ability is determined, and an individual program of study is designed to attain maximum musical development. Enrollment may be limited by instructor availability and workload.

MUSB 1251 Private Brass 1 Cr. (.5 LAB)
MUSD 1251 Private Percussion 1 Cr. (.5 LAB)
MUSP 1251 Private Piano 1 Cr. (.5 LAB)
MUSS 1251 Private Strings 1 Cr. (.5 LAB)
MUSV 1251 Private Voice 1 Cr. (.5 LAB)
MUSW 1251 Private Woodwinds 1 Cr. (.5 LAB)
Prerequisite: audition.
Corequisite: MUSR 1421 Chorale or MUSR 1461 Women's Chorus is required for MUSV 1251; MUSR 1441 Symphonic Band is required for the others.
Private instrumental/vocal study at the beginning level to include technique and literature. May be repeated for a total of four hours.
MUSB 1252 Private Brass 2 Cr. (1 LAB)
MUSD 1252 Private Percussion 2 Cr. (1 LAB)
MUSP 1252 Private Piano 2 Cr. (1 LAB)
MUSS 1252 Private Strings 2 Cr. (1 LAB)
MUSV 1252 Private Voice 2 Cr. (1 LAB)
MUSW 1252 Private Woodwinds 2 Cr. (1 LAB)
Prerequisite: audition, music or music education major.
Corequisite: MUSR 1421 Chorale or MUSR 1461 Women's Chorus is required for MUSP 1252; MUSR 1441 Symphonic Band or MUSR 1411 Jazz Band for the others.
Private instrumental/vocal study at the beginning level to include technique and literature. May be repeated for a total of eight hours.
MUSB 3251 Private Brass 1 Cr. (.5 LAB)
MUSD 3251 Private Percussion 1 Cr. (.5 LAB)
MUSP 3251 Private Piano 1 Cr. (.5 LAB)
MUSS 3251 Private Strings 1 Cr. (.5 LAB)
MUSV 3251 Private Voice 1 Cr. (.5 LAB)
MUSW 3251 Private Woodwinds 1 Cr. (.5 LAB)
Prerequisite: junior standing, audition, and 4 hours of MUS_ 1251.
Corequisite: MUSR 3421 Chorale or MUSR 3461 Women's Chorus is required for MUSP 3252; MUSR 3441 Symphonic Band for the others.
Private instrumental/vocal study at the advanced level to include technique and literature. May be repeated for a total of four hours.
MUSB 3252 Private Brass 2 Cr. (1 LAB)
MUSD 3252 Private Percussion 2 Cr. (1 LAB)
MUSP 3252 Private Piano 2 Cr. (1 LAB)
MUSS 3252 Private Strings 2 Cr. (1 LAB)
MUSV 3252 Private Voice 2 Cr. (1 LAB)
MUSW 3252 Private Woodwinds 2 Cr. (1 LAB)
Prerequisite: 8 hours of MUS_ 1252, junior standing, audition and satisfactory completion of sophomore jury and sophomore review.
Corequisite: MUSR 3421 Chorale or MUSR 3641 Women's Chorus is required for MUSV 3252; MUSR 3441 Symphonic Band or MUSR 3411 Jazz Band for the others.
Private instrumental/vocal study at the advanced level to include technique and literature. May be repeated for a total of eight hours.

MUSC  Music - Class Instruction

All nonpiano music majors should enroll in four semesters of Class Piano in order to complete degree requirements.

MUSC 1151 CLASS GUITAR I 1 CR. (2 LAB)
Instruction in guitar for beginners. No previous musical experience is required. Students will be required to provide their own guitar.

MUSC 1161 CLASS PIANO I 1 CR. (2 PART.)
Prerequisite: music major or consent of instructor. Students will gain a knowledge of basic fundamental keyboard skills. Three main areas will be covered: keyboard skills, which will include sight reading, transposition, and harmonization; technique, which will cover pentachord positions, scales, chords, and arpeggios; repertoire, simple tunes in five-finger patterns through elementary solos.

MUSC 1171 CLASS PIANO II 1 CR. (2 PART.)
Prerequisite: MUSC 1161 Class Piano I or consent of instructor.
This course is a continuation of group piano instruction. It focuses on basic fundamental keyboard skills. The areas of sight reading, transposition, harmonization, technique, and repertoire will be covered in more depth and at a higher level of difficulty.

MUSC 1251 CLASS GUITAR II 1 CR. (2 LAB)
Continues the techniques of guitar playing discussed in Class Guitar I and applies them to more difficult music. Students will be required to provide their own guitar.

MUSC 2161, 2171
Class Piano III, IV 1 Cr. (2 Part.) Prerequisite: MUSC 1171 Class Piano II or consent of instructor; MUSC 2161 is a prerequisite for 2171.
A continuation of group piano instruction with a focus on basic fundamental keyboard skills. The areas of sight reading, transposition, harmonization,
technique, and repertoire will be covered in more depth and at a higher level of difficulty.

MUSI  Music - Basic

MUSI 1000 Recital Attendance  0 CR.
Offered on a pass/fail basis. Music majors are required to attend a specified number of recitals and concerts each semester and must pass four semesters to receive the bachelor's degree in music or music education.

MUSI 1183 Fundamentals of Music  3 CR. (3 LEC.)
A systems class in music theory with emphasis on the elements of notation, scales, intervals, rhythm, and root relationships of chords. The class is recommended for the summer II term for incoming music majors prior to the fall semester theory courses.

MUSI 1201, 1211 Sight Singing and Ear Training I, II  1 CR. (2 LAB)
Prerequisite for MUSI 1201: music major or consent of instructor.
Corequisite for MUSI 1201: MUSI 1223 Music Theory I.
Prerequisite for MUSI 1211: MUSI 1201 Sight Singing and Ear Training I and music major or consent of instructor.
Corequisite for MUSI 1211: MUSI 1233 Music Theory II.
Includes rhythmic, melodic, and harmonic dictation; rhythmic and melodic sight singing; and aural and keyboard harmonic progressions (diatonic).

MUSI 1223, 1233 Music Theory I, II  3 CR. (3 LEC.)
Prerequisite for MUSI 1223: music major or consent of instructor.
Corequisite for MUSI 1223: MUSI 1201 Sight Singing and Ear Training I.
Prerequisite for MUSI 1233: MUSI 1223 Music Theory I and music major or consent of instructor.
Corequisite for MUSI 1233: MUSI 1211 Sight Singing and Ear Training II.
Includes the study of melody writing, as well as the formation of chords and their proper use. The first semester covers intervals, primary and secondary triads in root position, and embellishing tones, as well as techniques of melody writing. The second semester includes the inversions of triads, dominant seventh chords and their inversions, other seventh chords, the study of harmony in minor keys, and writing songs with piano accompaniment and short piano pieces.

MUSI 1322 Music Technology  2 CR. (2 LEC.)
Prerequisite: music major or consent of instructor.
Prerequisite or Corequisite: MUSI 1223 Music Theory I.
Intended for freshman students majoring in music education. It will provide them the skills and knowledge necessary to effectively use technology in the classroom and to teach this technology to their students at the appropriate level.

MUSI 2181 Diction for Singers I  1 CR. (1 LEC., 1 LAB)
Prerequisite: voice student and covers the International Phonetic Alphabet, English, and Italian diction.

MUSI 2763 Music Appreciation  3 CR. (3 LEC.)
A course for all students who wish to acquire the basic information and techniques necessary for the intelligent appreciation of music, as related to major style periods in music history. Guided-listening experiences are an important part of the course. (ACTS: MUSC 1003)

MUSI 2781, 2791 Sight Singing and Ear Training III, IV  1 CR. (2 LAB)
Prerequisite for MUSI 2781: MUSI 1211 Sight Singing and Ear Training II.
Corequisite for MUSI 2781: MUSI 2803 Music Theory III.
Prerequisite for MUSI 2791: MUSI 2781 Sight Singing and Ear Training III.
Corequisite for MUSI 2791: MUSI 2813 Music Theory IV.
Students analyze and sing melodies which encompass seventh chords, modes, and chromatics. Part-singing is included. The ear training is correlated to the sight-singing material and to the related material in MUSI 2803 and MUSI 2813.

MUSI 2803, 2813 Music Theory III, IV  3 CR. (3 LEC.)
Prerequisite for MUSI 2803: MUSI 1233 Music Theory II.
Corequisite for MUSI 2803: MUSI 2781 Sight Singing and Ear Training III.
Prerequisite for MUSI 2813: MUSI 2803 Music Theory III.
Corequisite for MUSI 2813: MUSI 2791 Sight Singing and Ear Training IV.
Students study secondary seventh chords, augmented sixth chords, altered chords, expanded chords, and other chromatic harmony formations, nonharmonic tones, and figured basses. Students harmonize basses and melodies and analyze music of standard composers.

**MUSI 2821**
**PERCUSSION INSTRUMENTS** 1 CR. (2 LAB)
Prerequisite: music major or consent of instructor.
Study of instruments of the percussion family to the extent that scales and/or rudiments and grade one and two solos can be played on selected instruments. Designed as a practical preparation for public school instrumental teachers.

**MUSI 2841 INSTRUMENTAL CONCEPTS FOR VOCALISTS** 1 CR. (2 LAB)
Prerequisite: sophomore standing
Designed to equip vocal students with elementary instrumental pedagogy, i.e. teaching beginning woodwind, string, brass and percussion instruments in public or private school. The course is designed as a practical preparation for both group and private instruction and observational and diagnostic skills needed for effective teaching.

**MUSI 2851 STRING INSTRUMENTS AND VOCAL PEDAGOGY FOR INSTRUMENTALISTS** 1 CR. (2 LAB)
Prerequisite: sophomore standing
Study of the instruments of the string family (violin, viola, cello and string bass), and the study of the singing voice as a teaching tool. Teaching strategies designed to develop and maintain vocal health and proper vocal production will be examined. Designed as a practical preparation for prospective teachers of instrumental music.

**MUSI 2861 FUNDAMENTALS OF IMPROVISATION I** 1 CR., (1 LEC., 1 LAB)
Prerequisite: consent of instructor
Teaches the skills needed for improvising solos in jazz, rock and pop music. Students learn scales, chords and patterns useful in creating improvised melodies. The course is open to all instrumentalists; percussionists must play mallets or piano. The ability to read music is not required, but is very helpful. Vocalists must receive written permission from instructor prior to enrolling in the course.

**MUSI 2871 FUNDAMENTALS OF IMPROVISATION II** 1 CR., (1 LEC., 1 LAB)
Prerequisite: MUSI 2861 Fundamentals of Improvisation I
Builds upon the musical skills and knowledge acquired in MUSI 2861. Students review scales, chords and patterns useful in creating improvised melodies in jazz, rock, and pop music. Advanced improvisational techniques and materials are addressed. The course is open to all instrumentalists: percussionists must play mallets or piano. The ability to read music is required. Vocalists must receive written permission from the instructor prior to enrolling in the course.

**MUSI 3000 RECITAL ATTENDANCE** 0 CR.
Offered on a pass/fail basis. Music majors are required to attend a specified number of recitals and concerts each semester and must pass four semesters to receive the bachelor's degree in music or music education.

**MUSI 3102 ORCHESTRATION AND ARRANGING** 2 CR. (2 LEC.)
Prerequisite: MUSI 2813 Music Theory IV or consent of instructor.
An introduction to musical scoring, including the study of vocal and instrumental performance techniques, registers, transpositions, stylistic capabilities, tonal characteristics, and the essentials of arranging for a variety of vocal and instrumental ensembles.

**MUSI 3181 DICTION FOR SINGERS II** 1 CR. (1 LEC., 1 LAB)
Prerequisite: MUSI 2181 Diction of Singers I, music major or consent of instructor.
Designed for upper-division voice students and covers the International Phonetic Alphabet, German, and French diction.

**MUSI 3202 COMMERCIAL MUSIC ARRANGING** 2 CR., (2 LEC.)
Prerequisite: music major with junior standing and MUSI 2813 Music Theory IV
Designed to familiarize the student with all of the rudimentary techniques associated with the art of arranging commercial and contemporary music. The course content requires students to apply theoretical principles to the practice of writing arrangements.
MUSI 3352 PIANO PEDAGOGY 2 CR., (2 LEC.)
Prerequisite: junior standing or consent of instructor.
Designed to equip students to teach beginning through intermediate piano, both in group and private instruction and the observational and diagnostic skills needed for effective teaching.

MUSI 3372 VOCAL PEDAGOGY 2 CR., (2 LEC.)
Prerequisite: music major with junior standing or consent of instructor.
Provides a basic understanding of the anatomy and physiology of the singing mechanism, the technical and imagistic language that facilitates the teaching of voice, and the observational and diagnostic skills needed for effective teaching.

MUSI 3472 COMPOSITION 2 CR. (1 LAB)
Prerequisites: MUSI 2813 Music Theory IV and MUSR 3102 Orchestration and Arranging or consent of instructor.
Private lessons in creative composition with a view toward developing an individual style. Discussions and demonstrations include compositional forms and techniques and the process of composition. May be repeated for a total of 8 hours.

MUSI 3503 MUSIC HISTORY I 3 CR. (3 LEC.)
Prerequisite: music major with junior standing or consent of instructor.
A survey of music in western culture from ancient Greece to 1750, primarily designed for, but not limited to, music majors.

MUSI 3513 MUSIC HISTORY II 3 CR. (3 LEC.)
Prerequisite: music major with junior standing or consent of instructor.
A survey of music in western culture from 1750 to the present. Includes one unit of non-western music.

MUSI 3663 JAZZ HISTORY AND STYLES 3 CR. (3 LEC.)
Prerequisite: junior standing and ENGL 1213 Freshman English II.
A study of the development and styles of jazz music and its principal exponents, as well as the place and function of jazz within American culture. Includes a review of the basic musical elements and concepts employed in jazz, a focus on jazz artists and styles from 1917 to the present, extensive listening to and analysis of significant works representing a chronology of developments in jazz.

MUSI 3822 PRINCIPLES OF CONDUCTING 2 CR. (2 LEC.)
Prerequisite: music major or consent of instructor.
The study of the principles and practices of conducting with focuses on baton techniques, score study, transpositions, and basic terminology.

MUSI 3833 ELEMENTARY MUSIC METHODS AND MATERIALS 3 CR. (3 LEC.)
Prerequisite: admission to music education program.
Current practices, methods, and materials for teaching general music to elementary school children.

MUSI 3841 WOODWINDS I 1 CR. (2 LAB)
Prerequisite: music major or consent of instructor.
Study of single reed woodwind instruments to the extent that scales and grade one and two solos can be performed on selected instruments. Designed as a practical preparation for public school instrumental teachers.

MUSI 3842 CONDUCTING II: VOCAL 2 CR. (2 LEC.)
Prerequisite: MUSI 3822 Principles of Conducting or consent of instructor.
A continuation of the study of the techniques of conducting vocal ensembles. This course includes score study, score preparation, form and harmonic analysis, and advanced study of rehearsal techniques.

MUSI 3851 WOODWINDS II 1 CR. (2 LAB)
Prerequisite: music major or consent of instructor.
Study of flute and double reed woodwind instruments to the extent that scales and grade one and two solos can be performed on selected instruments. Designed as a practical preparation for public school instrumental teachers.

MUSI 3852 CONDUCTING II: INSTRUMENTAL 2 CR. (2 LEC.)
Prerequisite: MUSI 3822 Principles of Conducting or consent of instructor.
A continuation of the study of the techniques of conducting instrumental ensembles. Includes score study, score preparation, form and harmonic analysis, and advanced study of rehearsal techniques.

MUSI 3862 VOCAL LITERATURE 2 CR., (2 LEC.)
Prerequisite: music major with junior standing or consent of instructor.
The history, development, and literature of major
trends in solo song from circa 1585 to present, suitability of vocal literature for singers at various stages of vocal development, and stylistic considerations for such literature needed for effective teaching.

**MU 3872 PIANO LITERATURE** 2 cr., (2 Lec.)
Prerequisite: junior standing or consent of instructor

History of piano repertoire from Pre-Baroque through the 20th Century. Includes study of composers, their complete piano works, musical forms, performance practices, and stylistic considerations for such literature needed for effective teaching.

**MU 4030 SENIOR RECITAL** 0 cr.
Prerequisites: 4 semesters of MUS_ 1252 Private Instruction and 3 semesters of MUS_ 3252 Private Instruction.

Corequisite: For music majors: must be enrolled in 4th semester of MUS_ 3252 Private Instruction. For music education majors, must be enrolled in 3rd semester of MUS_ 3252. Must remain in MUS_ 3252 through successful completion of senior recital.

Music majors are required to present a successful recital on their major instrument in order to receive the degree in music or music education. Students must remain in MUSI 3252 through successful completion of senior recital.

**MU 4253 CONTEMPORARY HARMONIC PRACTICE** 3 cr. (3 Lec.)
Prerequisite: MUSI 2813 Music Theory IV.

Theoretical principals of contemporary music with concentration on harmonic, melodic, and rhythmic principles beginning with the blues, swing, and bebop through modern jazz and popular music.

**MU 4443 SURVEY OF AMERICAN MUSIC** 3 cr. (3 Lec.)
Prerequisite: junior Standing and ENGL 1213 Freshman English II.

Survey of folk, popular, and classical music of the United States, from the sacred works of the 1500s to the classical, jazz, popular, and rock music of the 21st century. Includes Native American songs and chants, as well as music of Spanish, French and English colonists, African slaves, and other immigrants to North America.

**MU 4532 FORM AND ANALYSIS** 2 cr. (2 Lec.)
Prerequisite: MUSI 2813 Music Theory IV.

Continuation of MUSI 2813 Music Theory IV includes the standard forms of the baroque, classical, and romantic periods (1600-1900), emphasizing the language of musical analysis and the designations and categories of form.

**MU 4843 SECONDARY VOCAL METHODS AND MATERIALS** 3 cr. (3 Lec.)
Prerequisite: admission to music education program and MUSI 3842 Conducting II: Vocal.

Rehearsal techniques, repertoire, and administration of the secondary school vocal program. Includes a unit on teaching general music at the secondary level.

**MU 4853 SECONDARY INSTRUMENTAL METHODS AND MATERIALS** 3 cr. (3 Lec.)
Prerequisite: admission to music education program and MUSI 3852 Conducting II: Instrumental.

Rehearsal techniques, repertoire, and administration of the secondary school band program to include marching band practices and techniques.

**MU 4861 BRASS INSTRUMENTS** 1 cr. (2 LAB)
Prerequisite: music major or consent of instructor.

Study of the brass family of instruments to the extent that scales and grade one and two solos can be played on selected instruments. Designed as a practical preparation for public school instrumental teachers.

**MU 4883 MUSIC CAPSTONE EXPERIENCE** 3 cr. (3 Lec.)
Prerequisites: Four semesters of MUS_ 1252 and two semesters of MUS_ 3252.

Corequisite: MUS_ 3252.

All music majors undertake a senior capstone project involving a combination of performance and music research as a culminating activity. The subject and scope of the project will be determined in consultation with a music faculty member, and will include a presentation/performance (lecture recital) of at least 40 minutes, and a project portfolio for archival purposes and future employment in the field of music.

**MUSR  Music Performance**

If appropriate, four credit hours of music performance courses, at the lower (1000) level and four credit hours at the upper (3000) level may apply toward graduation for a bachelor's degree.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MUSR 1010 ATHLETIC BAND</strong></td>
<td>0 CR. (3 LAB)</td>
<td>Prerequisite: audition. Opportunity for wind, brass, and percussion students to perform in a modern ensemble. Provides musical entertainment for home athletic events and represents the music department, the athletic department, and the University with concerts and special performances throughout the school year.</td>
</tr>
<tr>
<td><strong>MUSR 1201 JAZZ LAB ENSEMBLE</strong></td>
<td>1 CR. (2 PART.)</td>
<td>Prerequisite: consent of director. A training ground for students to learn basic techniques in jazz performance. Musical selections, exercises, and other materials are used in rehearsal as teaching tools. Public performance scheduling is contingent upon personnel and levels of ability. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1351 INSTRUMENTAL ENSEMBLES</strong></td>
<td>1 CR. (2 PART.)</td>
<td>Prerequisite: consent of director. Provides performance opportunities within a small group context for brass, wind, and percussion musicians with previous band experience. Concert literature is prepared and performed throughout the semester. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1361 VOCAL PERFORMANCE WORKSHOP</strong></td>
<td>1 CR. (3 LAB)</td>
<td>Prerequisite: audition. Focuses on preparation and performance of scenes from musical theatre, operas, and operettas. Emphasis is on musical preparation, movement, and diction. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1411 JAZZ BAND</strong></td>
<td>1 CR. (3 PART.)</td>
<td>Prerequisite: audition. Provides training in performance of music from the jazz idiom. Both contemporary and traditional styles are explored with an emphasis on improvisation and proper stylistic interpretation. Students gain experience in performance and rehearsal techniques. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1421 CHORALE</strong></td>
<td>1 CR. (4 PART.)</td>
<td>Prerequisite: audition. Primary choral ensemble of the University; open to all students. Includes literature of all styles from all periods, both large and small choral works. Performances are given on and off campus. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1441 SYMPHONIC BAND</strong></td>
<td>1 CR. (4 PART.)</td>
<td>Prerequisite: audition. Provides rehearsal and performance experiences for woodwind, brass, and percussion musicians in a large-group setting. Repertoire includes literature representing many traditional and contemporary styles. Performances are presented regularly on campus, as well as in school and community settings. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1451 VOCAL JAZZ</strong></td>
<td>1 CR. (3 PART.)</td>
<td>Prerequisite: audition. Corequisite: MUSR 1421 Chorale. A small performing ensemble of mixed voices. Both contemporary and traditional styles of vocal jazz are explored with an emphasis on proper stylistic interpretation. Performances are given on campus, in the community, and on tours throughout the region. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 1461 WOMEN'S CHORUS</strong></td>
<td>1 CR. (2 PART.)</td>
<td>Prerequisite: audition. Ensemble open to all with treble voices (soprano/alt). Includes choral vocal training along with the study and performance of concert literature from all styles and periods of music. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 3201 JAZZ LAB ENSEMBLE</strong></td>
<td>1 CR. (2 PART.)</td>
<td>Prerequisite: audition or consent of instructor. Provides a training ground for students to learn basic techniques in jazz performance. Musical selections, exercises, and other materials are used in rehearsal as teaching tools. Public performance contingent upon personnel and levels of ability. May be repeated for a total of four hours.</td>
</tr>
<tr>
<td><strong>MUSR 3351 INSTRUMENTAL ENSEMBLE</strong></td>
<td>1 CR. (2 PART.)</td>
<td>Prerequisite: consent of instructor. Provides performance opportunities within a small group context for brass, wind, and percussion musicians with band experience. Concert literature is prepared and performed several times throughout semester. May be repeated for a total of four hours.</td>
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<tr>
<td><strong>MUSR 3361 VOCAL PERFORMANCE WORKSHOP</strong></td>
<td>1 CR. (3 PART.)</td>
<td>Prerequisite: audition. Focuses on preparation and performance of scenes from musical theatre, operas, and operettas. Emphasis</td>
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</table>
on musical preparation, movement, and diction. May be repeated for a total of four hours.

**MUSR 3411 JAZZ BAND** 1 CR. (3 PART.)
Prerequisite: junior standing and audition.
Performance of contemporary and traditional styles of jazz are explored with an emphasis on improvisation and proper stylistic interpretation. Students gain experience in performance and rehearsal techniques. May be repeated for a total of four hours.

**MUSR 3421 CHORALE** 1 CR. (3 PART.)
Prerequisite: junior standing and audition.
Primary choral ensemble of the University; open to all students. Includes literature of all styles from all periods, both large and small choral works. Performances given on and off campus. May be repeated for a total of four hours.

**MUSR 3441 SYMPHONIC BAND** 1 CR. (4 PART.)
Prerequisite: junior standing and audition.
Provides rehearsal and performance experiences for woodwind, brass, and percussion musicians in a large group setting. Repertoire includes literature representing many traditional and contemporary styles. Performances are presented regularly on campus, as well as in school and community settings. May be repeated for a total of four hours.

**MUSR 3451 VOCAL JAZZ** 1 CR. (3 PART.)
Prerequisite: junior standing and audition.
Corequisite: MUSR 3421 Chorale.
A small performing ensemble of mixed voices selected by audition. Both contemporary and traditional styles of vocal jazz music are explored, with an emphasis on proper stylistic interpretation. Music prepared in rehearsal is performed in concerts at the University, in the community, and on tours throughout the region. May be repeated for a total of four hours.

**MUSR 3461 WOMEN’S CHORUS** 1 CR. (2 PART.)
Prerequisite: junior standing and audition.
Large ensemble open to treble voices (soprano/alto). Includes choral vocal training along with the study and performance of concert literature. Repertoire features literature of all styles from all periods of music history. May be repeated for a total of four hours.

**MUSR 3471 ACCOMPANYING AND CHAMBER MUSIC** 1 CR. (2 PART.)
Prerequisite: Successful completion of four semesters of MUSP 1252 Private Piano or consent of the instructor.
Designed for the piano music major. Provides practical, basic training for developing the vocal, choral, and instrumental accompanist and performance with a variety of chamber music ensembles. Students learn to think creatively, independently, and analytically while preparing their individual studio accompanying assignments. Course may be repeated for a total of four hours.

**NURS Bachelor of Science in Nursing**
Enrollment in courses beginning with the NURS prefix requires admission into the bachelor of science in nursing program or consent of the program director.

**NURS 2002 INFORMATION TECHNOLOGY IN NURSING** 2 CR. (2 LEC.)
Prerequisite: admission to the BSN Program.
Introduces the application of technology in researching healthcare information, professional writing, and use of simulation. Explores diverse technologies and basic principles for applying concepts of healthcare information science.

**NURS 2103 INTRODUCTION TO PROFESSIONAL NURSING** 3 CR. (3 LEC.)
Prerequisite: admission to the BSN Program.
Prerequisite or corequisite: SPAN 1304 Beginning Spanish I.
Corequisites: HLTH 3103 Pathophysiology and NURS 2002 Information Technology in Nursing. Foundations of professional nursing practice. Focuses on nursing history and trends, the Betty Neuman Systems Model, nursing process, and nursing roles.

**NURS 2413 LEGAL/ETHICAL ISSUES IN NURSING** 3 CR. (3 LEC.)
Prerequisites: current LPN and RN licensure or current associate degree nursing or bachelor of science in nursing student by consent of instructor.
Exploration of the legal and ethical factors that impact nursing today. Course looks into the impact
of healthcare trends and its impression on legal and ethical components of nursing responsibilities. Theories, models, and principles are explored to give the nurse a guide for ethical and legally sound nursing judgment. Professional issues discussed include autonomy, authority, accountability, code of practice/conduct, practice issues, work environments, technology, and patient self-determination. Various healthcare settings and nursing roles are addressed.

**NURS 3113 NURSING SKILLS 3 CR. (2 LEC., 3 LAB)**

Prerequisites: NURS 2103 Introduction to Professional Nursing and NURS 2002 Information Technology in Nursing.
Corequisite: NURS 3227 Foundations of Nursing Care.
Development of basic, intermediate, and advanced nursing skills. Campus laboratories are used for student practice, simulation, and demonstration of skills.

**NURS 3164 HEALTH ASSESSMENT 4 CR. (2.5 LEC., 4.5 LAB)**

Prerequisite: Current RN licensure or consent of instructor.
Focuses on the development of skills necessary for assessing the physical health status of both adult and pediatric clients. Skills of inspection, auscultation, palpation, and percussion are emphasized. Students apply classroom content in clinical and simulated laboratory situations. Course meets the UAFS BSN program’s requirement for health assessment.

**NURS 3227 FOUNDATIONS OF NURSING CARE 7 CR. (3 LEC.,12 LAB)**

Prerequisites: HLTH 3103 Pathophysiology and NURS 3164 Health Assessment.
Prerequisite or corequisite: PHAR 3203 General Pharmacology, NUTR 2523 Nutrition and NURS 3113 Nursing Skills.
An introduction to the nursing process, primary, secondary, and tertiary prevention with an emphasis on major nursing concepts and basic skills. Application of these concepts and skills is accomplished in laboratory and clinical settings.

**NURS 3236 NURSING CARE OF WOMEN & CHILDREN 6 CR. (3 LEC., 9 LAB)**

Prerequisite: NURS 3227 Foundations of Nursing Care.
Focuses on the care of women and children along the health and illness continuum. Students apply the nursing process to address care of the well child; child with acute, chronic and/or life threatening conditions; normal pregnancy; high risk pregnancy; care of the healthy newborn and women’s health issues.

**NURS 3337 NURSING CARE OF THE ADULT I 7 CR. (3 LEC.,12 LAB)**

Prerequisite: NURS 3227 Foundations of Nursing Care.
Using Neuman’s Systems Model and the Nursing Process, this course provides an overview of the physiological, psychosocial, cultural and developmental health issues of the adult population.

**NURS 4102 HEALTHY AGING 2 CR. (2 LEC.)**

RN to BSN prerequisite: admission to program.
BSN generic track prerequisites: NURS 2103 Introduction to Professional Nursing and HLTH 3103 Pathophysiology.
RN to BSN prerequisite or corequisite: HLTH 4103 Research in the Health Sciences.
BSN generic track prerequisite or corequisite: HLTH 4103 Research in the Health Sciences.
Explores the normal process of aging, common biological, psychological, and social issues that affect older adults and organizations that assist/support aging.

**NURS 4133 PROFESSIONAL PERSPECTIVES 3 CR. (3 LEC.)**

Prerequisite: Current RN license or Program Director approval.
Historical perspectives that influence the evolution of professional nursing from a legal, political, ethical, social, and economic standpoint are explored. Current issues, trends, and ethical dilemmas that shape the practice of professional nursing are examined. The future of nursing is viewed from a local, regional, national, and global level. Socialization into professional roles is explored.

**NURS 4203 NURSING INFORMATION SYSTEMS 3 CR. (3 LEC.)**

Prerequisite: Admission to RN to BSN track.
Management and processing of information systems is analyzed through nursing research, informational science, and basic healthcare science. Information systems, which support the art and science of nursing, are studied. Various avenues for collecting, analyzing, and utilizing information in diverse healthcare settings are explored.
NURS 4234
NURSING CONCENTRATION 4 CR. (12 LAB)
Prerequisite: current RN licensure.
Prerequisite or corequisite: NURS 4203 Nursing Information Systems.
Provides registered nurses the opportunity to synthesize previous knowledge in a variety of clinical situations and to further develop and refine clinical practice skills. The student exercises initiative, independence, and creativity in applying the nursing process to an area of personal interest in nursing.

NURS 4303 LEADERSHIP AND MANAGEMENT IN PROFESSIONAL NURSING 3 CR. (3 LEC.)
Prerequisite: NURS 4203 Nursing Information Systems and current RN licensure.
Prerequisite or corequisite: NURS 4133 Professional Perspectives.
Theoretical knowledge of the principles of leadership and management with application of these concepts in baccalaureate nursing practice are examined.

NURS 434C NURSING CARE OF THE ADULT II 12 CR. (4 LEC., 24 LAB)
Prerequisite: NURS 3337 Nursing Care of the Adult I. Neuman’s Systems Model and the nursing process will be used to assist the student to address major biophysical health issues affecting the adult population.

NURS 4355 NURSING CARE OF THE CRITICALLY ILL ADULT 5 CR. (2 LEC., 9 LAB)
Prerequisite: NURS 434C Nursing Care of the Adult II
Application of Neuman’s System Model and Nursing Process when caring for acutely/critically ill adult.

NURS 4364 LEADERSHIP IN PROFESSIONAL NURSING 4 CR. (2 LEC., 6 LAB)
Prerequisites: HLTH 4103 Research in the Health Sciences and NURS 434C Nursing Care of the Adult II.
Prerequisite or corequisite: NURS 4355 Nursing Care of the Critically Ill Adult.
Corequisite: NURS 4458 Psychiatric and Community Health Nursing.
An in-depth view of nursing leadership and management in a changing healthcare environment. Emphasis placed on development of skills for delivery of quality client care within an organization, service-learning, and application of evidence-based practice.

NURS 4458 PSYCHIATRIC & COMMUNITY HEALTH NURSING 8 CR. (4 LEC., 12 LAB)
Prerequisite: NURS 434C Nursing Care of the Adult II.
Prerequisite or corequisite: NURS 4355 Nursing Care of the Critically Ill Adult.
Theoretical basis of psychiatric and community health nursing is the focus of the course. Students explore the role of the nurse in the community, in the care of aggregates, and populations at risk. Principles of individual, group and family behaviors will facilitate the study of common psychiatric disorders and their treatment.

NURS 4603 HEALTH PROMOTION AND TEACHING 3 CR. (3 LEC.)
Prerequisites: NURS 3164 Health Assessment.
Health-promotion concepts are used as the foundation for transforming health-promotion practice. The student develops and teaches a community-based, health-promotion project.

NURS 4656 COMMUNITY AS A CLIENT 6 CR. (3 LEC., 9 LAB)
Prerequisite: NURS 3164 Health Assessment and NURS 4102 Healthy Aging.
Prerequisite or corequisite: NURS 4603 Health Promotion and Teaching.
Populations and communities as clients are introduced, and the role of the community health nurse as a facilitator of change is explored. Emphasis is placed on implementation and evaluation of therapeutic nursing interventions designed to improve the health of culturally diverse populations and communities.

NURS 4705 HEALTHCARE SYSTEMS MANAGEMENT 5 CR. (3 LEC., 6 LAB)
Prerequisites: NURS 3164 Health Assessment and NURS 4102 Healthy Aging.
Prerequisite or corequisite: NURS 4203 Nursing Information Systems.
Clinical, administrative, and financial aspects of management in healthcare systems are explored. Organizational, regulatory, and political factors that affect nursing practice and administration of healthcare are examined. Clinical learning experiences enable the student to evaluate application of theoretical concepts to practice based situations.
NURS 4903 Dimensions in Professional Practice 3 CR. (3 LEC.)
Prerequisite or corequisite: all courses required for the Bachelor of Science in Nursing degree must be completed or in progress.
A capstone course that allows the student the opportunity to reflect, integrate, and synthesize the use of critical thinking, communication skills, research, health promotion/teaching skills, leadership and management skills, and professional role development. Through the presentation of a community service-learning project and portfolio project, students model program outcomes.

NUTR Nutrition
NUTR 2523 Nutrition 3 CR. (3 LEC.)
Prerequisite: high school chemistry or equivalent.
A nutrition course based on the principles of normal nutrition throughout the life cycle. In addition to learning about the basic nutrients, the ingestion, digestion, absorption, and metabolism of foods is studied. Emphasis is placed on the social, economic, cultural, and psychological implications of food and eating. The student determines the nutritional status of individuals and populations using nutritional assessment techniques, and devises plans for the maintenance or restoration of nutritional health.

OSS Overseas Study
OSS 260V Overseas Study 1–6 CR. (VARIABLE)
Prerequisite: sophomore standing
The initial study of language, history, and/or culture in a specific country. Schedules for the overseas study will be announced when the course is offered. May be repeated up to a total of 6 hours for elective credit.

PHAR Pharmacology
PHAR 3203 General Pharmacology 3 CR. (3 LEC.)
Prerequisite or corequisite: HLTH 3103 Pathophysiology.
Reviews general principles, theories and facts about drugs, their administration, classifications, and mechanisms of action, pharmacokinetics, drug interactions, and the adverse effect of drugs used in the prevention and treatment of illnesses.

PHIL Philosophy
PHIL 2753 Introduction to Philosophy 3 CR. (3 LEC.)
Survey of history and fundamental issues of philosophy in Western civilization. (ACTS: PHIL 1103).

PHIL 3103 Reasoning Across the Disciplines 3 CR. (3 LEC.)
Prerequisite: junior standing.
Students explore reasoning and critical thinking, developing analytic tools based on the standards of logic and reasoning. They then investigate argument analysis and formulation in various disciplines, applying their recently developed reasoning skills.

PHIL 3203 Ethics Across the Disciplines 3 CR. (3 LEC.)
Prerequisite: junior standing or consent of instructor.
Introduces fundamental ethical principles and how philosophers have thought about morals—both about normative ethics (about what people ought to do) and about meta-ethics (about the nature of morals or ethics). Examines the theoretical basis of ethics and then focuses on applied ethical problems in selected disciplines such as psychology, healthcare, business, education, and law.

PHIL 3213 Business Ethics 3 CR. (3 LEC.)
Prerequisites: PHIL 2753 Introduction to Philosophy, or PHIL 3203 Ethics Across the Disciplines, or COBI 2033 Fundamentals of Managerial Effectiveness.
Exploration of normative ethical theories and their application to systemic, corporate and individual practices in business world.
PHIL 3223 MEDICAL ETHICS 3 CR. (3 LEC.)
Prerequisites: PHIL 2753 Introduction to Philosophy, or PHIL 3203 Ethics Across the Disciplines, or consent of instructor.
Examines the ethical dimensions of medical practice with a focus on contemporary moral controversies and concerns.

PHIL 3403 PHILOSOPHY OF RELIGION 3 CR. (3 LEC.)
Prerequisites: PHIL 2753 Introduction to Philosophy, or PHIL 3103 Reasoning Across the Disciplines, or PHIL 3203 Ethics Across the Disciplines, or consent of instructor.
A philosophical inquiry into the nature, value, and meaning of religion in human life.

PHIL 3303 PHILOSOPHY OF THE HUMAN PERSON 3 CR. (3 LEC.)
Prerequisite: ENGL 1213 Freshman English II and PHIL 2753 Introduction to Philosophy.
Study of the human person from a philosophical point of view, exploring the classical debates about human nature: egoism vs. altruism, freedom vs. determinism, the mind-body problem, the difference between man and woman, and others.

PHIL 4903 PHILOSOPHY: SPECIAL TOPICS 3 CR. (3 LEC.)
Prerequisite: PHIL 2753 Introduction to Philosophy.
Selected topics in philosophy. Offered on demand. May be repeated when topics differ for a total of six hours.

PHIL 493V PHILOSOPHY: INDEPENDENT STUDY 1-3 CR. (VARIABLE)
Prerequisites: senior standing, 15 hours of philosophy, consent of instructor.
Selective reading and written project on a topic submitted by the student and approved by the instructor before registration. Open only to students with demonstrated ability to write research papers of superior quality in philosophy. Applicants unknown to the instructor should submit academic transcripts and samples of their research papers in philosophy. May be repeated for a total of six hours.

PHSC  Physical Science

PHSC 2501 FUNDAMENTALS OF ASTRONOMY LABORATORY 1 CR. (2 LAB)
Prerequisite or corequisite: PHSC 2503 Fundamentals of Astronomy.
Application-based activities designed to enhance the student’s understanding of the night sky through investigation, comparison, and observation. Some outside of class participation in field observation is required.

PHSC 2503 FUNDAMENTALS OF ASTRONOMY 3 CR. (3 LEC.)
Prerequisite: MATH 1403 College Algebra or higher mathematics.
Introduction to the fundamentals of stellar astronomy and progress of from contributing cultures through present-day efforts as a science. Some outside of class participation in field observation is required. (ACTS: PHSC 1204: must complete PHSC 2503/2501)

PHSC 2651 EARTH SCIENCE LABORATORY 1 CR. (2 LAB)
Prerequisite or corequisite: PHSC 2653 Earth Science.
A study in minerals, rocks, fossils, topographic map and geologic maps, and oceanographic and meteorological phenomena.

PHSC 2653 EARTH SCIENCE 3 CR. (3 LEC.)
Prerequisite or corequisite: PHSC 2651 Earth Science Laboratory.
Study of fundamental principles and procedures of physical and historical geology, oceanography, and meteorology. (ACTS: PHSC 1104; must have PHSC 2653/2651)

PHSC 2711 PHYSICAL SCIENCE LABORATORY 1 CR. (2 LAB)
Prerequisite or corequisite: PHSC 2713 Physical Science.
A study in physical science techniques and analyzing physical sciences concepts in the disciplines of physics, chemistry, and astronomy.

PHSC 2713 PHYSICAL SCIENCE 3 CR. (3 LEC.)
Prerequisite: MATH 1203 Intermediate Algebra or higher-level math course.
Prerequisite or corequisite: PHSC 2711 Physical Science Laboratory
Presents the facts, methods, and significance of the
physical sciences by concentration on selected topics from physics, chemistry, and astronomy. (ACTS: PHSC 1004; must have PHSC 2713/2711).

**PHSC 3103 PALEOCLIMATOLOGY  3 CR (3 LEC.)**
Prerequisite: PHSC 2653 Earth Science or GEOL 1253 Physical Geology or BIOL 1153 Biological Science
Investigates climate science by examining different types of climates, climate variability and change, methods of determining climates and paleoclimates with specific examples.

**PHYE  Physical Education**

**PHYE 0990 WELL FIT  0 CR.**
A fitness program that develops muscle strength, flexibility, body composition, and cardiovascular respiratory endurance. An orientation is not required. Available during fitness center's regular operating hours for ages 14 and up. A nominal users' fee required. Course is not graded and not on academic transcript.

**PHYE 1011 BEGINNING AEROBIC FITNESS  1 CR. (2 ACT.)**
Fundamental physical fitness program for male and female students, based on principles of aerobic fitness. Designed to improve both cardiovascular fitness and overall body condition. Students learn basic aerobic principles and participate in aerobic activity sessions.

**PHYE 1021 INTERMEDIATE AEROBIC FITNESS  1 CR. (2 ACT.)**
Prerequisite: PHYE 1011 Beginning Aerobic Fitness.
Continuation of study and practice of aerobic fitness fundamentals. Emphasis on diet and improvement of physical fitness already possessed by student.

**PHYE 1101 HEALTH CONCEPTS  1 CR. (2 ACT.)**
Individualized, self-paced program teaches basic lifetime exercise skills and health-related activities.

**PHYE 1261 WALKING/BEGINNING JOGGING  1 CR. (2 ACT.)**
Introduces students to the benefits of walking and jogging and presents persuasive and logical reasons why they should include daily exercise in their lives. Provides the guidelines to sustain a walking or jogging program safely and effectively.

**PHYE 1271 TENNIS  1 CR. (2 ACT.)**
Introduces students to the game of tennis and provides essential knowledge and skills needed in order to effectively play the game. A nominal court fee will be required. Most classes take place off campus.

**PHYE 1321 ADVANCED AEROBIC FITNESS  1 CR. (2 ACT.)**
Prerequisite: PHYE 1011 Beginning Aerobic Fitness.
A physical fitness program obtained through an advanced level of weight training, floor exercise, aerobic-dance exercise, and proper diet.

**PHYE 1502 SPORTS FUNDAMENTALS  2 CR. (2 LEC.)**
Basic techniques, materials, teaching aids, and rules of football and basketball are discussed in this course.

**PHYE 1512 SPORTS FUNDAMENTALS  2 CR. (2 LEC.)**
Basic techniques, materials, teaching aids, and rules of baseball and track are discussed in this course.

**PHYE 1551 GOLF  1 CR. (2 ACT.)**
The fundamentals of golf are covered — club selection, grip, stance, and swing. Instruction is also given on the history of golf, rules, scoring, and social values. The majority of the course meetings take place off campus. There is a nominal green fee required.

**PHYE 1561 MARTIAL ARTS I  1 CR. (2 ACT.)**
The fundamentals of martial arts are covered. Instruction is given in rules and etiquette, and students participate in each activity.

**PHYE 1571 MARTIAL ARTS II  1 CR. (2 ACT.)**
Prerequisite: PHYE 1561 Martial Arts I.
Builds on the fundamentals of Martial Arts I with instruction at a faster pace. The focus will be on a new form, throwing and grappling, and joint kicking. One new form and eleven wrist techniques, thirteen clothing grabs and six opposite wrist grabs.

**PHYE 1621 TOTAL FITNESS  1 CR. (2 ACT.)**
A fitness program that develops muscle strength, flexibility, body composition, and cardiovascular respiratory endurance. Pre- and post-evaluations serve to measure outcomes. Course will meet at times specified by the schedule of classes, and will not be available during the fitness center's regular operating hours. A nominal users' fee is required. May be repeated for a total of four hours.
PHYE 1701
INTRODUCTION TO VOLLEYBALL 1 CR. (2 ACT.)
Introduction to both the rules and fundamentals of
the sport of volleyball.

PHYE 2353 SPORTS OFFICiating 3 CR. (3 LEC.)
Sports Officiating is designed to teach the basic rules
of football, basketball, baseball, soccer, and volleyball
for people interested in becoming sports referees.

PHYE 2571 MARTIAL ARTS III 1 CR. (2 ACT.)
Prerequisite: PHYE 1571 Martial Arts II.
Continues basics from Martial Arts I and II. Starts
executing pressure-point strikes with hand and foot.
There will be a new form, 45 new techniques, and
double-kicking. Participation is mandatory. Emphasis
will be on pressure points on the body and how to
strike with different parts of the hands and feet. The
previous 15 techniques in Martial Arts I and II will
now be done in a sparring situation with mid-level
throws and falls.

PHYE 2761 RECREATIONAL ACTIVITIES 1 CR. (2 ACT.)
Fundamentals of outdoor recreation in
noncompetitive activities. Most activities are off
campus.

PHYE 2853 HEALTH AND SAFETY 3 CR. (3 LEC.)
A study of individual and group health problems,
including diet; mental health; medical care;
community health services; drug, tobacco, and alcohol
abuse; and reproduction, venereal disease, and other
health subjects. (ACTS: HEAL 1003)

PHYS  Physics
PHYS 2753 TECHNICAL PHYSICS 3 CR. (2 LEC., 2 LAB)
Prerequisite: MATH 1133 Technical Mathematics
or consent of instructor.
A course in technical and applied physics for persons
presently working in, or planning to enter, skilled
trades and technical occupations, with emphasis on
measurement, motion, forces, simple machines, and
heat. Practical application of principles is stressed.

PHYS 2784 PHYSICS CONCEPTS
AND APPLICATIONS 4 CR. (3 LEC., 2 LAB)
Prerequisite: MATH 1403 College Algebra.
Topics include trigonometric functions, kinematics,
force, work, energy, thermodynamics, magnetic
properties of matter, electrical components and
circuits, electromagnetic propagation, optics, and basic
laws and concepts of physics. This course will use a
mathematical foundation to introduce the student to
applications in the classroom, workplace, and naturally
occurring phenomena.

PHYS 2803 COLLEGE PHYSICS I 3 CR. (3 LEC.)
Prerequisites: MATH 1403 College Algebra and
MATH 1453 Plane Trigonometry or higher-level math
course.
A fundamental course for students in pre-medicine,
pre-dentistry, and other areas in which a basic
introduction to mechanics, wave motion, sound, and
heat is needed. (ACTS: PHYS 2014; must complete
PHYS 2803/2811)

PHYS 2811 COLLEGE PHYSICS
LABORATORY I 1 CR. (2 LAB)
Prerequisite or corequisite: PHYS 2803 College
Physics I.
Includes basic experiments demonstrating physical
principles of mechanics, heat, and wave motion.

PHYS 2823 COLLEGE PHYSICS II 3 CR. (3 LEC.)
Prerequisite: PHYS 2803 College Physics I.
A fundamental course for students in pre-medicine,
pre-dentistry, and other areas in which a basic
introduction to electricity, magnetism, light, and
modern physics is needed. (ACTS PHYS 2024; must
complete PHYS 2823/2831)

PHYS 2831 COLLEGE PHYSICS
LABORATORY II 1 CR. (2 LAB)
Prerequisite or corequisite: PHYS 2823 College
Physics II.
Basic experiments demonstrating physical principles
of electricity, magnetism, light, and modern physics.

PHYS 2893 UNIVERSITY PHYSICS I 3 CR. (3 LEC.)
Prerequisite or corequisite: MATH 2804 Calculus I.
A calculus-based introductory physics course for
scientists and engineers that covers Newton's laws of
motion; conservation laws for momentum, energy,
and angular momentum; fluid statics and dynamics;
laws of thermodynamics. (ACTS: PHYS 2034; must
complete PHYS 2903/2911)
PHY2911 UNIVERSITY PHYSICS LABORATORY I 1 CR. (2 LAB)
Prerequisite or corequisite: PHYS 2903 University Physics I.
Basic experiments demonstrating physical principles of mechanics, heat, thermodynamics, and wave motion.

PHY2923 UNIVERSITY PHYSICS II 3 CR. (3 LEC.)
Prerequisites: PHYS 2903/2911 University Physics I/Lab.
Prerequisite or corequisite: MATH 2854 Calculus II.
Continuation of University Physics I in which electric fields and DC circuits; magnetic fields, electromagnetic induction and AC circuits; oscillations and waves, Maxwell’s equations; and geometrical and physical optics will be covered. (ACTS: PHYS 2044; must complete PHYS 2923/2931)

PHY2931 UNIVERSITY PHYSICS LABORATORY II 1 CR. (2 LAB)
Prerequisite: PHYS 2903/2911 University Physics/Lab
Prerequisite or corequisite: PHYS 2923 University Physics II.
Included are basic experiments demonstrating physical principles of electricity, magnetism, and light.

PHY2933 UNIVERSITY PHYSICS III 3 CR. (3 LEC.)
Prerequisite: PHYS 2923 University Physics II.
An introduction to relativity and relativistic mechanics; quantum theory with applications to atomic and molecular physics; condensed matter physics; nuclear and particle physics.

PHY3103 MODERN PHYSICS 3 CR. (3 LEC.)
Prerequisite: PHYS 2923 University Physics II.
Emphasizes the physics of this century. Topics include relativistic collisions, elementary particle physics, particle-wave duality, philosophical interpretations of quantum theory, and solutions to the Schroedinger equation for simple bound-state and scattering problems.

PHY3203 MATH METHODS IN SCIENCE I 3 CR. (3 LEC.)
Prerequisite: PHYS 2923 University Physics II.
Infinite series and complex numbers, vector analysis, coordinate systems, matrices and determinants, and complex analysis will be used as problem solving tools.

PHY3303 MATH METHODS IN SCIENCE II 3 CR. (3 LEC.)
Prerequisite: PHYS 3203 Math Methods in Science I.
Continuation of Math Methods of Science I.
Fourier series, calculus of variations, tensor analysis, special functions, and series solutions of differential equations, partial differential equations, and integral transforms will be used as problem solving tools.

PHY3403 CLASSICAL MECHANICS 3 CR. (3 LEC.)
Prerequisite: PHYS 2923 University Physics II.
Mathematically rigorous treatment of classical mechanics, with emphasis on sophisticated problem solving. It builds on material from previous courses in mathematical physics and continues the introduction to mechanics the student was introduced to in University Physics.

PHY3503 CLASSICAL THERMODYNAMICS 3 CR. (3 LEC.)
Prerequisite: PHYS 2923 University Physics II.
Begins with the definition of the thermodynamic variables and will use these to define: equations of state, thermal equilibrium, the laws of thermodynamics with application to special systems including the ideal gas, the van der Waals gas, the Carnot cycle, heat engines, magnetic systems, phase transitions, and superfluids.

PHY3803 PRINCIPLES OF ELECTRICITY AND MAGNETISM 3 CR. (3 LEC.)
Prerequisite: PHYS 2923 University Physics II.
Introduces the modern theory of classical electrodynamics. Uses the tools of vector calculus for solving static and dynamic properties of electromagnetic fields.

POL S Political Science

POL S 2753 AMERICAN NATIONAL GOVERNMENT 3 CR. (3 LEC.)
A study of the narrow and the broad aspects of American government. Areas of concentration include, but are not limited to, political behavior, Congress, the judicial system, bureaucracy, the executive branch, and intergovernmental relations. (ACTS: PLSC 2003)
POLS 2753H AMERICAN NATIONAL GOVERNMENT (HONORS) 3 CR. (3 LEC.)
Prerequisite: acceptance into the honors program or consent of instructor.
An honors course where students engage the various institutions, forces, factors, and trends of American government and politics with emphasis on judicial process and United States Supreme Court cases (both historic and contemporary).

POLS 2853 STATE AND LOCAL GOVERNMENT 3 CR. (3 LEC.)
Study of organizations and functions of state and local governments and political parties in the United States, intergovernmental relations, administrations, and adjudication. (ACTS: PLSC 2103)

POLS 3053 COMPARATIVE POLITICAL INSTITUTIONS 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
A study of governments around the world.

POLS 3103 PUBLIC POLICY 3 CR. (3 LEC.)
Prerequisite: ENGL 1213 Freshman English II.
The study of the evolution of policy-making in the U.S., theories of policy-making, the policy process, and substantive policy issues.

POLS 3113 THE AMERICAN PRESIDENCY 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
The study of the American Presidency.

POLS 3123 THE U. S. CONGRESS 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
The study of the evolution of the U.S. Congress, its structure, the activities of its members, and the way legislation proceeds.

POLS 3133 THE U. S. SUPREME COURT 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
Study of the United States Supreme Court and constitutional interpretation.

POLS 3153 INTERNATIONAL RELATIONS 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
An introduction to the institutions, policies and history that have shaped the relations between nations in the 20th and 21st centuries. Examines the topic from various theoretical and historical perspectives.

POLS 3403 POLITICAL PHILOSOPHY 3 CR. (3 LEC.)
Prerequisite: ENGL 1213 Freshman English II or PHIL 2753 Introduction to Philosophy.
Study of the nature of political institutions and their philosophical and theoretical foundations from ancient times to the present.

POLS 3603 PUBLIC ADMINISTRATION 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
An overview of the structure and function of American bureaucracy at all levels of government.

POLS 4013 AMERICAN CAMPAIGNS AND ELECTIONS 3 CR. (3 LEC.)
Prerequisite: POLS 2753 American National Government.
Examines the major stages of political campaigns with a focus on how political campaigns use media to sell candidates and issues to the voters. Reviews and presents strategies and tactics of successful and unsuccessful political campaigns.

POLS 490V POLITICAL SCIENCE: SPECIAL TOPICS 1-3 CR. (VARIABLE)
Prerequisite: POLS 2753 American National Government.
Specialized study of selected topics in political science. Topics may include the constitution; congress; political parties; political theory; or the presidency. May be repeated when topics differ for a total of 9 hours.

POLS 4953 POLITICAL SCIENCE INTERNSHIP 3 CR. (VARIABLE)
Prerequisites: junior standing, six hours of POLS courses, and consent of instructor.
Involves field experience with a political or government related institution or agency. The student operates under the supervision of an individual at the internship agency.
and a member of the political science faculty. Internships are administered through the department head. May be repeated for a total of six hours.

**PRFS Professional Studies**

**PRFS 3133 Policies and Ethics in the Workplace** 3 CR. (3 LEC.)

Prerequisite: consent of department head.

Introduction to issues that discriminate right and wrong in the workplace. The learner is exposed to various scenarios and issues in the workplace. Strategies for implementing policies to encourage ethical behaviors are developed.

**PRFS 3143 Economic Analysis in the Workplace** 3 CR. (3 LEC.)

Prerequisite: MATH 1403 College Algebra and one of the following: junior standing or consent of department head.

Concerned with the organization of the financial function in the technically-based enterprise. Includes analysis and projection of financial statements; cost elements in pricing; cost control; techniques for capital investment decision-making; time value of money and the concept of equivalence; replacement analysis and the cost of capital depreciation.

**PRFS 3533 Workplace and Environmental Safety** 3 CR. (3 LEC.)

Prerequisite: consent of department head.

Topics include accident prevention, statistics, costs, safety performance appraisal, and recognition of industrial hazards. Tools will be used to assess working conditions and make recommendations for ergonomic issues and workplace safety. Referencing the requirements of regulatory agencies, the student will document compliance and prepare reports.

**PRFS 3833 Diversity in the Workplace** 3 CR. (3 LEC.)

Prerequisite: consent of department head.

Historical and contemporary perspectives of cultural diversity, including ethnicity, age, sexual orientation, gender, religion, or national origin, which affect employees’ quality of life in the workplace. Student develops theoretical models that may be applied to real life.

**PRFS 4033 Consensus Building and Continuous Improvement** 3 CR. (3 LEC.)

Prerequisite: consent of department head.

Examines the elements of managing a business enterprise through development of a culture of quality, competitiveness, and customer focus utilizing teamwork, empowerment, and the appropriate application of the tools of continuous improvement.

**PRFS 4133 Project Management** 3 CR. (3 LEC.)

Prerequisite: PRFS 4033 Consensus Building and Continuous Improvement or consent of department head.

Designed to prepare the student for in-depth understanding of managing projects from initiation to completion. Topics to be covered include organizational structure and staffing; motivation, authority and influence; conflict management; project planning; network systems; pricing, estimating, and cost control; proposal preparation; project information systems; international project management.

**PRFS 4433 Supervisory Total Quality Management** 3 CR. (3 LEC.)

Prerequisite: consent of department head.

Management philosophies, methods for employee empowerment, appropriate communication applications, and optimization of productivity are examined from the manager's perspective while maintaining a customer-driven focus for the work enterprise.

**PRFS 4633 Decision Making in Organizations** 3 CR. (3 LEC.)

Prerequisite: consent of department head.

Interdisciplinary study of organizational theory and human behavior within a business with special attention on management leadership responsibilities.

**PRFS 4703 Production Planning and Scheduling** 3 CR. (3 LEC.)

Prerequisite: senior standing or consent of department head.

Introduction to basic techniques of scheduling, manufacturing planning and control; just-in-time systems; capacity management; master production scheduling, single machine processing; scheduling heuristics and intelligent scheduling systems.
**PRFS 4713 BUSINESS LOGISTICS**  
3 CR. (3 LEC.)  
Prerequisite: senior standing or consent of department head.

An analysis of the logistics function as a total system including inventory, transportation, order processing, warehousing, material handling, location of facilities, customer service, and packaging. Trade-offs and the interaction of various system components are explored.

**PRFS 4723 WORK DESIGN**  
3 CR. (3 LEC.)  
Prerequisite: senior standing or consent of department head.

Addresses the design of workstations and tasks. Topics include micromotion, operational analysis, manual material handling, workstations organization, anthropometrics, cumulative trauma disorders, hand tool design, controls/displays design, work sampling, predetermined time standard systems, and time allowances.

**PRFS 4743 HUMAN FACTORS AND ERGONOMICS**  
3 CR. (3 LEC.)  
Prerequisite: PRFS 3533 Workplace and Environmental Safety or consent of department head.

An examination of human-machine systems and the characteristics of people that affect system performance. Topics include systems analysis, and the perceptual, cognitive, physical, and social strengths and limitations of human beings.

**PRFS 4813 SIX SIGMA AND PROCESS IMPROVEMENT**  
3 CR. (3 LEC.)  
Prerequisite: PRFS 4433 Supervisory Total Quality Management and one of the following: senior standing or consent of department head.

Study and implementation of Six Sigma philosophy and methodology. Several tools and methods including process flow diagrams, cause and effect diagrams, failure mode and effects analysis, gage R&R, capability studies, and design of experiments will be explored. Strategies for organizing Six Sigma approaches in industry will be discussed.

**PRFS 490V SPECIAL TOPICS**  
1-3 CR. (VARIABLE)  
Prerequisite: consent of department head.

Specialized study of various topics in professional studies. May be repeated, when topics differ, for a total of nine hours.

**PRFS 4954 PRACTICUM**  
4 CR. (4 IND. STU.)  
Prerequisite: senior standing or consent of department head.

Application of knowledge of theories, methods and problems from previous coursework to observe, study, and recommend procedures to enhance or improve organizational operations- including, but not limited to, the areas of supervision, human relations, productivity, or quality. Structured field experiences assisted by faculty.

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**PSYC 1001**  
PSYCHOLOGY ORIENTATION  
1 CR. (1 LEC.)

Prepares student for academic success in college and psychology. Includes the University resources, study skills for college, introduction to the profession of psychology as a science, expectations of the degree plan, and an introduction to scientific writing.

**PSYC 1163 GENERAL PSYCHOLOGY**  
3 CR. (3 LEC.)

Introduction to basic principles and theories of human behavior. Investigates the biological bases of human behavior, learning and memory, perception, human development across the life-span, personality, motivation and emotions. (ACTS: PSYC 1103)

**PSYC 1163H GENERAL PSYCHOLOGY (HONORS)**  
3 CR. (3 LEC.)

Prerequisite: acceptance into honors program. Designed to be taken concurrently with ENGL 1202H Composition I (Honors). An in-depth version of PSYC 1163. Requires the synthesis and application of course material as well as the use of critical thinking and problem-solving skills in both verbal and written formats.

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**PSYC 2613 RESEARCH METHODS IN PSYCHOLOGY**  
3 CR. (3 LEC.)

Prerequisites: PSYC 1163 General Psychology, STAT 2503 Probability and Statistics, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.

Introduces various methodologies used in conducting scientific research in psychology, both animal and human. Discusses ethical conduct in research with in-depth ethics training; database searches; review of empirical research literature; scientific writing; experimental design; data gathering.
and interpretation; and the evaluation of the strengths and weaknesses of various research methods. Requires writing a basic research proposal.

**PSYC 2803 HISTORY AND SYSTEMS OF PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisite: PSYC 1163 General Psychology.
Prerequisite or corequisite: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Critically investigates the history of traditional and contemporary theories and systems of psychology. Includes structuralism, functionalism, behaviorism, Gestalt psychology, and psychoanalysis. Emphasizes the integration of current theoretical trends.

**PSYC 2963 DEVELOPMENTAL PSYCHOLOGY: A LIFE SPAN** 3 CR. (3 LEC.)
Prerequisite: PSYC 1163 General Psychology.
Prerequisite or corequisite: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Comprehensive view of the individual at each stage of growth. Biological, cognitive, social and emotional aspects of growth from conception through geriatrics. (ACTS: PSYC 2103)

**PSYC 3123 APPLIED PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Principles of human behavior as applied to a variety of problems regarding mental and physical health, communication, motivation, and the legal system. Psychological tests and techniques used in industry and governmental settings are discussed. Career planning in psychology is reviewed.

**PSYC 3133 SOCIAL PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Various theories concerning the interrelationships of social structure and the behavior of individuals to include human aggression, prejudice, attraction, persuasion, self-perception, and conformity.

**PSYC 3173 INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Psychological principles of prediction, performance criteria, job analysis, employee training and evaluation, effective work environment, management, motivation, and job satisfaction. Recommended for those interested in applied psychology, human resources, or pursuing business degrees.

**PSYC 3183 COGNITIVE PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisites: PSYC 1163 General Psychology and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Theories and research of human information processing to include attention, memory, problem solving, information representation, and individual differences in cognitive ability.

**PSYC 3503 BEHAVIORAL STATISTICS** 3 CR. (3 LEC.)
Prerequisites: PSYC 2613 Research Methods in Psychology, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Descriptive and inferential statistics used in conducting behavioral research; the collection and analysis of data; hypothesis testing; and application of various statistical methodologies. Computer spreadsheets and other electronic programs are used.

**PSYC 3613 EXPERIMENTAL PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisites: PSYC 2613 Research Methods in Psychology, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Prerequisite or corequisite: PSYC 3503 Behavioral Statistics.
Application of various methodologies used in conducting scientific research in psychology. Emphasizes ethical conduct in research. Includes database searching of empirical research literature, scientific writing in APA style, design, data collection and interpretation.

**PSYC 3653 APPLIED RESEARCH IN PSYCHOLOGY** 3 CR. (3 LEC.)
Prerequisites: PSYC 3613 Experimental Psychology and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
A research investigation of a behavioral topic. Student reviews literature, designs and executes a simple research study, writes a research paper using APA style, and presents results in a formal setting.
PSYC 3703 Introduction to Forensic Psychology 3 CR. (3 LEC.)
Prerequisite: PSYC 1163 General Psychology, and ENGL 1213 Freshman English II or RHET 2863 Advanced Composition and one of the following: HIST 2763 United States History II or POLS 2753 American National Government or CJ 1013 Introduction to the Criminal Justice System.
Reviews behavioral theories and research and their relationship with the legal system; examines roles of psychologists in the criminal justice system. Includes an examination of the services of forensic psychologists such as expert witnessing, criminal profiling, trial consulting, legal decision making on child custody, jury selection, mental health services, and assessment methods of maladaptive behaviors in a forensic setting.

PSYC 3763 Abnormal Psychology 3 CR. (3 LEC.)
Prerequisites: PSYC 2963 Developmental Psychology: A Life Span and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Examines various types of abnormal and maladaptive behavior with emphasis on developmental and contributing factors, common diagnostic categories, therapy, and prevention.

PSYC 4133 Physiological Psychology 3 CR. (3 LEC.)
Prerequisites: PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Lab or higher BIOL, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Examines neuro-anatomical structures and functions of the brain that underlie human behavior. Emphasizes neurophysiology of the central and peripheral nervous systems; function, and behavioral correlates of sensory systems; the physiology underlying maladaptive behaviors and various developmental and neurodegenerative diseases. Brief laboratory exercises.

PSYC 4153 Conditioning and Learning 3 CR. (3 LEC.)
Prerequisites: junior standing, 3 hours of upper-level psychology courses, PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Lab, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Traditional and modern approaches to reinforcement, punishment, generalization, discrimination, and constraints on learning are examined and evaluated.

PSYC 4223 Psychology of Personality 3 CR. (3 LEC.)
Prerequisites: junior standing, psychology major, 3 hours of upper-level PSYC courses, PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Lab and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition OR Criminal Justice major, PSYC General Psychology, STAT 2503 Probability and Statistics, BIOL 1153/1151 Biological Science/Lab and CJ 3983 Introduction to Research Methods.
Critical study of modern approaches to the organization and development of personality, with extensive reading to integrate experimental, clinical, biological, and cultural evidence.

PSYC 4303 Sensation and Perception 3 CR. (3 LEC.)
Prerequisites: junior standing; psychology major, PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Lab, PSYC 4133 Physiological Psychology, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Examines sensory systems in mammals to illustrate how humans perceive the world through sensory systems. Review of research of visual and auditory systems, chemical systems, and their applications to contemporary living.

PSYC 4613 Psychological Tests and Measurements 3 CR. (3 LEC.)
Prerequisites: PSYC 1163 General Psychology and STAT 2503 Probability and Statistics.
Introduction to principles of psychological testing and measurement, including reliability, validity and test construction. Surveys major measures of intellectual ability, cognitive performance, and personality. Ethical and cultural issues in development and use of psychological tests are examined.

PSYC 4803 Psychology Senior Seminar 3 CR. (3 LEC.)
Prerequisites: PSYC 4223 Psychology of Personality, 6 hours of upper-level psychology courses and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Various topics in human behavior selected by the
instructor. May be repeated, when topics differ, for a total of nine hours.

**PSYC 4813 FIELD EXPERIENCE IN PSYCHOLOGY**  
3 CR. (1 LEC., 4 LAB)  
Prerequisites: senior standing, Psychology major, PSYC 3613 Experimental Psychology, 6 additional hours of upper-level Psychology courses and consent of instructor/department head.

Supervised field placement in settings (hospitals, schools, community service agencies, businesses, industry, etc.) where psychological services are utilized. Placement opportunities are evaluated by the instructor. Class meetings emphasize career development strategies and techniques.

**PSYC 4823 PSYCHOLOGY OF HUMAN SEXUALITY**  
3 CR. (3 LEC.)  
Prerequisites: PSYC 2963 Developmental Lifespan Psychology, PSYC 4223 Theories of Personality, and PSYC 2613 Research Methods, or consent of instructor.


**PSYC 493V PSYCHOLOGY INDEPENDENT STUDY**  
1-3 CR. (IND. STU.)  
Prerequisites: senior standing, psychology major, 15 hours of upper-level psychology courses, and consent of instructor/department head.

Advanced knowledge and experience in behavioral issues and assessment.

**PSYC 4953 PSYCHOLOGY CAPSTONE**  
3 CR. (3 LEC.)  
Prerequisites: senior standing, psychology major, 18 hours upper-level psychology courses.

Review and synthesis of the psychology majors knowledge of their chosen field. Preparation of students for graduate school or career entry. The Senior Comprehensive Examination is a requirement.

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**RADT 1104 INTRODUCTION TO RADIOGRAPHY**  
4 CR. (4 LEC.)  
Prerequisites: ENGL 1203 Freshman English I, MATH 1403 College Algebra, CPR Certification (American Heart Association “CPR for Healthcare Providers” or American Red Cross “CPR for the Professional Rescuer”), CHEM 1303 Chemical Principles, and BIOL 1523/1521 Anatomy and Physiology I/Lab.

Prerequisite or corequisite: BIOL 1533/1531 Anatomy and Physiology II/Lab.

Corequisites: RADT 1112 Radiographic Procedures I and RADT 1124 Clinical Education I.

Provides a broad overview of the radiological sciences profession. Varied aspects of patient care, legal and ethical concerns, pharmacology, and professional development and organizations are presented.

**RADT 1112 RADIOGRAPHIC PROCEDURES I**  
2 CR. (1 LEC., 2 LAB)  
Prerequisites: ENGL 1203 Freshman English I, MATH 1403 College Algebra, CPR Certification (American Heart Association “CPR for Healthcare Providers” or American Red Cross “CPR for the Professional Rescuer”), CHEM 1303 Chemical Principles, and BIOL 1523/1521 Anatomy and Physiology I/Lab.

Prerequisite or corequisite: BIOL 1533/1531 Anatomy and Physiology II/Lab.

Corequisites: RADT 1104 Introduction to Radiography and RADT 1124 Clinical Education I.

Presents the principles of radiographic anatomy, positioning, and terminology necessary to perform standard radiographic procedures. Emphasis given to routine and specialty views of the chest and abdomen along with procedures of the wrist, hand, and fingers.

**RADT 1124 CLINICAL EDUCATION I**  
4 CR. (20 LAB)  
Prerequisites: ENGL 1203 Freshman English I, MATH 1403 College Algebra, CPR Certification (American Heart Association “CPR for Healthcare Providers” or American Red Cross “CPR for the Professional Rescuer”), CHEM 1303 Chemical Principles, and BIOL 1523/1521 Anatomy and Physiology I/Lab.

Prerequisite or corequisite: BIOL 1533/1531 Anatomy and Physiology II/Lab.

Corequisites: RADT 1104 Introduction to Radiography and RADT 1112 Radiographic Procedures I.

Provides the necessary exposure to the practice of radiography in the clinical setting. Students are
evaluated on clinical efficiency, professional conduct, and appearance.

**RADT 1202**
**RADILOGRAPHIC EXPOSURES I**  **2 CR. (2 LEC.)**
Prerequisite: RADT 1104 Introduction to Radiography.
Prerequisite or corequisite: HLTH 1473 Medical Terminology.
An introduction of the physics of x-ray production and emission and the factors influencing quality image production. Study will be focused on the x-ray tube construction and the two types of radiation produced by an x-ray machine, x-ray quantity versus quality, primary, secondary, and scatter radiation, and the four radiographic qualities of density, contrast, distortion, and detail. Grid, film, and screen construction and combinations will be discussed, as well as processing the latent image.

**RADT 1212 RADILOGRAPHIC PROCEDURES II**  **2 CR. (1 LEC., 2 LAB)**
Prerequisite: RADT 1112 Radiographic Procedures I.
Prerequisite or corequisite: HLTH 1473 Medical Terminology.
Corequisites: RADT 1202 Radiographic Exposures I, RADT 1224 Clinical Education II, and RADT 1232 Radiation Physics.
A continuation of RADT 1112 Radiographic Procedures I. Designed to provide instruction for anatomical positioning and terminology necessary to perform standard radiographic procedures. Emphasis is given to routine and special projections of the upper and lower extremities. Laboratory experience will be used to complement the didactic portion of the course.

**RADT 1224 CLINICAL EDUCATION II**  **4 CR. (20 LAB)**
Prerequisite: RADT 1124 Clinical Education I.
Prerequisite or corequisite: HLTH 1473 Medical Terminology.
Clinical Education II provides the student with the necessary clinical education needed in the actual practice of radiography. Rotation will be made between hospitals and clinics as determined by the instructor.

**RADT 1232 RADIATION PHYSICS**  **2 CR. (2 LEC.)**
Prerequisite: RADT 1104 Introduction to Radiography.
Prerequisite or corequisite: HLTH 1473 Medical Terminology.
Corequisites: RADT 1202 Radiographic Exposures I, RADT 1212 Radiographic Procedures II, and RADT 1224 Clinical Education II.
Basic concepts in radiation physics will be presented. Fundamentals of x-ray generating equipment as well as x-ray production, beam characteristics, and units of measurements are explored.

**RADT 1302**
**RADILOGRAPHIC EXPOSURES II**  **2 CR. (2 LEC.)**
Prerequisite: RADT 1202 Radiation Exposure I.
Corequisites: RADT 1312 Radiographic Procedures III and RADT 1323 Clinical Education III.
A continuation of Radiographic Exposures I. Discussion of high-voltage generators, transformers, and rectifiers as they relate to image production will demonstrate characteristic differences in image quality. The primary exposure factors of mA, time, and kVp are explained in relation to their impact on the photographic properties of density and contrast. In-depth study of the four radiographic qualities, along with calculation and manipulation of technique variables, will provide basic concepts in determining optimum radiographic technique based on the patient part.

**RADT 1312 RADILOGRAPHIC PROCEDURES III**  **2 CR. (1 LEC., 2 LAB)**
Prerequisite: RADT 1212 Radiographic Procedures II.
Corequisites: RADT 1302 Radiographic Exposures II, and RADT 1323 Clinical Education III.
A continuation of RADT 1212 Radiographic Procedures II. Standard routine and special radiographic procedures involving the lumbar, thoracic, and cervical spine are the primary focus of this unit. Other procedures presented consist of the sacrum, coccyx, SI joints, ribs, sternum, and sternoclavicular joints.

**RADT 1323 CLINICAL EDUCATION III**  **3 CR. (24 LAB)**
Prerequisite: RADT 1224 Clinical Education II.
Corequisites: RADT 1302 Radiation Exposure II and RADT 1312 Radiographic Procedures III.
Continuation of Clinical Education II (RADT 1224). Provides the student with the necessary skills and experience needed in the actual practice of
radiography. Rotation will be made between hospitals and clinical sites as determined by the instructor.

**RADT 2412 RADIOPHGRAPIC PROCEDURES IV** 2 CR. (1 LEC., 2 LAB)
Prerequisite: RADT 1312 Radiographic Procedures III.
Prerequisites or corequisites: ENGL 1213 Freshman English II, PSYC 1163 General Psychology, or SOCI 2753 Introduction to Sociology.
Corequisites: RADT 2424 Clinical Education IV and RADT 2432 Principles of Radiation Biology/Protection.
A continuation of RADT 1312 Radiographic Procedures III. Designed to provide the student with the knowledge and skills necessary to perform standard radiographic procedures. Routine and special procedures to include the abdomen, urinary tract, and binary tract, as well as fluoroscopic exams of the gastrointestinal tract, will be presented.

**RADT 2424 CLINICAL EDUCATION IV** 4 CR. (20 LAB)
Prerequisite: RADT 1323 Clinical Education III.
Prerequisites or corequisites: ENGL 1213 Freshman English II, PSYC 1163 General Psychology, or SOCI 2753 Introduction to Sociology.
Corequisites: RADT 2412 Radiographic Procedures IV and RADT 2432 Principles of Radiation Biology/Protection.
Fourth in a series of courses that provide the student with the necessary clinical education to be successful in the practice of radiography. Rotation will continue through the four clinical sites.

**RADT 2432 PRINCIPLES OF RADIATION BIOLOGY/PROTECTION** 2 CR. (2 LEC.)
Prerequisite: RADT 1302 Radiographic Exposures II.
Prerequisites or corequisites: ENGL 1213 Freshman English II, PSYC 1163 General Psychology, or SOCI 2753 Introduction to Sociology.
Corequisites: RADT 2424 Clinical Education IV and RADT 2424 Clinical Education IV.
An overview of the principles of the interaction of radiation and biological systems and effects of radiation on biological molecules and organisms and factors affecting biological response. Provides an overview of principles of radiation protection and the responsibility of the radiographer. Regulatory agencies are identified and agency involvement discussed.

**RADT 2502 IMAGING EQUIPMENT** 2 CR. (2 LEC.)
Prerequisite: RADT 2432 Principles of Radiation Biology/Protection.
Corequisites: RADT 2512 Radiographic Procedures V, and RADT 2524 Clinical Education V.
Introduces the student to various methods of recording images and relates principles of diagnostic image production and the specific equipment required. Also introduces various advanced imaging techniques and career options in their chosen field.

**RADT 2512 RADIOPHGRAPIC PROCEDURES V** 2 CR. (1 LEC., 2 LAB)
Prerequisite: RADT 2412 Radiographic Procedures IV.
Corequisites: RADT 2502 Imaging Equipment and RADT 2524 Clinical Education V.
The last in a series of courses designed to provide the knowledge and skills necessary to perform standard and special procedures in radiography. Instruction is concentrated on exams of the skull and facial bones. Opportunity to apply knowledge will be available in both laboratory and clinical settings.

**RADT 2524 CLINICAL EDUCATION V** 4 CR. (20 LAB)
Prerequisite: RADT 2424 Clinical Education IV.
Corequisites: RADT 2502 Imaging Equipment and RADT 2512 Radiographic Procedures V.
A continuation of supervised clinical experiences for the procedures and skills needed in the practice of radiography. Advanced clinical rotations, responsibilities, and expectations are designated.

**RADT 2601 RADIOPHGRAPIC PATHOLOGY** 1 CR. (1 LEC.)
Prerequisite or corequisite: RADT 2512 Radiographic Procedures V.
Corequisites: RADT 2611 Senior Seminars and RADT 2623 Clinical Education VI.
Introduces the nature of disease and the structural and functional changes produced. Presentations will be made on a variety of diseases and their related pathology as it relates to radiographic procedures.

**RADT 2611 SENIOR SEMINARS** 1 CR. (2 LAB)
Prerequisites or corequisites: RADT 2512 Radiographic Procedures V and RADT 2524 Clinical Education V.
Corequisites: RADT 2601 Radiographic Pathology and RADT 2623 Clinical Education VI.
Reviews those areas deemed critical for registry examination. Simulated registry examinations will
be administered to help familiarize students with conditions under which the registry is given.

**RADT 2623**
**CLINICAL EDUCATION VI**  
3 CR. (24 LAB)  
Prerequisite: RADT 2524 Clinical Education V.  
Corequisite: RADT 2611 Senior Seminar and RADT 2601 Radiographic Pathology.  
The last course in a series that prepares students for the practice of radiography. This course requires a final demonstration of entry-level skills.

**READ Reading**

Students placed in READ 0513 will have conditions on their enrollment. Enrollment in READ 0513 is mandatory as a corequisite with academic courses.

**READ 0513 CRITICAL THINKING THROUGH READING**  
3 CR. (3 LEC.)  
Prerequisite: required COMPASS placement score.  
Designed for students who have the basic reading skills, but need to sharpen comprehension skills, develop deeper concentration, build college-level vocabulary, and apply reading skills to textbooks, and increase reading rate with flexibility. Computerized reading lab assignments are required outside of class.

**READ 1522 RAPID READING — INDEPENDENT STUDY**  
2 CR. (2 IND. STU.)  
Prerequisite: READ 0513 College Reading II or required COMPASS placement score.  
Emphasizes growth in rate through work on eyespan, scanning, skimming, and pre-skimming training reading films, flash strips, timed reading exercises with comprehension checks, and pacer practice. Students learn how to read a variety of materials and vary their reading rate according to the difficulty of material and purpose for reading and to retain effective comprehension.

**RELI Religion**

**RELI 2273 OLD TESTAMENT SURVEY**  
3 CR. (3 LEC.)  
A brief study of the Old Testament. Selected books and passages are given special attention to gain a deeper understanding of the Old Testament.

**RELI 2283 NEW TESTAMENT SURVEY**  
3 CR (3 LEC.)  
The history of Christianity from the birth of Jesus to the close of the first century. Selected passages from the Gospels, Acts, and the Epistles are studied.

**RELI 2303 WORLD RELIGIONS**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II.  
A survey of the world’s major religious traditions.

**RHET Rhetoric and Writing**

**RHET 2863 ADVANCED COMPOSITION**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or ENGL 1233 Honors Composition.  
Students read and write a variety of informal and formal essays, with special study of elements of style.

**RHET 3103 EDITING FOR USAGE, STYLE, AND CLARITY**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.  
A writing course in which students work to improve their writing style and clarity while studying the conventions of standard usage.

**RHET 3203 TEXTUAL RESEARCH METHODS**  
3 CR. (3 LEC.)  
Prerequisite: ENGL 1213 Freshman English II.  
Focuses on textual research, including a review of methods for finding, organizing, evaluating, and synthesizing primary and secondary materials. This course is intended for students in the liberal arts, humanities, and communications.

**RHET 3303 RHETORICAL AND TEXTUAL CRITICISM**  
3 CR. (3 LEC.)  
Prerequisite: RHET 3203 Textual Research Methods or consent of instructor.  
Survey of various methods for analyzing and evaluating textual rhetoric.

**RHET 3403 HISTORY OF RHETORIC**  
3 CR. (3 LEC.)  
Prerequisite: RHET 3203 Textual Research Methods or consent of instructor.  
Instruction in rhetorical history and theory from classical to contemporary periods, including the history of rhetoric as a discipline.
**RHET 3503 WRITING ARGUMENTS** 3 CR. (3 LEC.)
Prerequisite: RHET 3103 Editing for Usage, Style, and Clarity, or consent of instructor.
Advanced instruction in writing arguments in response to a variety of rhetorical situations. Emphasizes persuasive techniques and their ethical implications.

**RHET 3603 WRITING FOR THE WORKPLACE** 3 CR. (3 LEC.)
Prerequisite: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition, or consent of instructor.
Study and practice of workplace communication required of professionals who write as part of their jobs, developing a sense of audience and purpose, writing in teams, and learning problem-solving strategies. Practice writing workplace documents such as memos, letters, email, résumés, and reports.

**RHET 3703 NONFICTION WRITING** 3 CR. (3 LEC.)
Prerequisite: RHET 2863 Advanced Composition, or RHET 3103 Editing for Usage, Style, and Clarity, or ENGL 2853 Imaginative Writing, or consent of instructor.
Study and practice of creative nonfiction writing to explore, investigate, and explain ideas, experiences, and perspectives. Includes reading and analyzing creative nonfiction writing and writers. Emphasizes voice, style, and revision in informal nonfiction writing.

**RHET 3801 PUBLICATIONS STAFF** 1 CR. (1 LEC.)
Prerequisite: consent of instructor.
Provides guidance while students learn to work as a team to publish student media. Course is cross-listed with COMM 3801 and may be repeated twice for a total of three credit hours.

**RHET 4123 EDITING AS A PROFESSION** 3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments, or consent of instructor.
Teaches the roles of newspaper, magazine, and book editors. Develops facility with various style guides and copy editing skills, such as proofreading marks and editing symbols, and presentational, procedural, and descriptive electronic markup.

**RHET 4143 WRITING FOR PUBLICATION** 3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments, or consent of instructor.
Assists students in researching and developing projects for publication. Includes publication venues such as magazines, e-zines, blogs, and scholarly journals.

**RHET 4303 THE ART OF THE ESSAY** 3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments, or consent of instructor.
Instruction in the relationship between ideas, ideology, and rhetoric. Study of source documents from which major ideologies have originated and practice in critical response in essay form. Major writers may include Machiavelli, Jefferson, Thoreau, King, Freud, Jung, Gould, Eiseley, and others.

**RHET 4503 ARGUING PUBLIC ISSUES** 3 CR. (3 LEC.)
Prerequisites: RHET 3503 Writing Arguments, or consent of instructor.
Provides intensive instruction in persuasion and written argument. Emphasis is on arguments focusing on issues of public interest and on civic/corporate policy.

**RHET 4523 WRITING FOR CORPORATIONS AND NONPROFITS** 3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments, or consent of instructor.
Theory and practice in writing for businesses and non-profits. Includes advanced projects such as proposals, grants, affirmative action plans, ISO related documents, annual reports, strategic plans and feasibility studies.

**RHET 4603 SCIENTIFIC AND TECHNICAL WRITING** 3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments or RHET 3603 Writing for the Workplace, or consent of instructor.
Advanced study and practice of technical communication with computer applications. Emphasis on scientific and informative discourse and on writing audience-based prose. Focus is on writing in science, engineering, and technical fields.
RHET 4633 WRITING FOR THE WEB  3 CR. (3 LEC.)
Prerequisites: RHET 3503 Writing Arguments, or consent of instructor.
Provides instruction in principles of Web usability and information design. Examines the ways in which online publishing differs from print and what makes Web content effective. Web editing software is used to design and construct a functional web site.

RHET 4643 WRITING FOR THE MEDIA  3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments, or consent of instructor.
Advanced instruction in writing for multimedia. Study in the principles of reporting information to the public, including news writing and journalistic style, in addition to the principles of visual rhetoric in order to produce multimedia texts for a variety of media outlets.

RHET 4733 SPECIAL TOPICS IN RHETORIC  3 CR. (3 LEC.)
Prerequisite: RHET 3503 Writing Arguments, or consent of instructor.
Theory and practice of rhetoric and writing with topics varying each semester. May be repeated once for credit when topics differ.

RHET 4803 SENIOR SEMINAR  3 CR. (3 LEC.)
Prerequisites: Rhetoric and Writing or Media Communication major, with senior standing or consent of instructor.
Provides a capstone experience for Rhetoric and Writing and Media Communication majors. This course is cross-listed with COMM 4803 and may only be taken once for credit.

RHET 493V WRITING: INDEPENDENT PROJECT  1-3 CR. (IND. STU.)
Prerequisite: Minimum junior standing and consent of instructor and advisor.
For students of superior ability wishing to undertake an independent writing project. Will focus on writing a detailed proposal, followed by completion of project outlined in the proposal. Credit hours given for project will be negotiated between student and professor. Students may repeat projects for up to 6 hours of credit toward degree with consent of instructor and advisor.

RHET 495V WRITING INTERNSHIP  1-3 CR. (VARIABLE)
Prerequisite: junior standing, consent of instructor.
Course involves individual field experience with a writing-related business or public agency. The student will work under the supervision of an individual at the internship agency and a member of the rhetoric faculty. The student must secure permission from both supervisors before registration. May be repeated for a total of three hours.

SAS  Student Academic Success

SAS 0201 BRIDGE TO SUCCESS SEMINAR  1 CR. (1 LEC.)
Prerequisite: consent of department head.
Bridge to Success reinforces study strategies and student choices resulting in responsible learners actively engaged in their academic and personal lives. Students who successfully complete this course will have an implementation plan and skills that will lead to success in college and life decisions. Topics include self assessment, personal responsibility, self-motivation, self-management, interdependence, and learning strategies.

SAS 0203 ON COURSE FOR SUCCESS  3 CR. (3 LEC.)
Corequisites: READ 0513 Critical Thinking through Reading AND ENGL 0153 Beginning Writing or ENGL 0163 Introduction to Writing AND a developmental math course MATH 0011 through MATH 1203.
Students who successfully complete this course will develop the skills necessary for success in college and in life. Topics include accepting personal responsibility; increasing self-motivation, self-awareness, and self-esteem; improving self-management; employing interdependence; developing emotional intelligence; acquiring lifelong learning strategies; and using technology to aid learning.
**SOCI  Sociology**

**SOCI 2753**
**INTRODUCTION TO SOCIOLOGY  3 CR. (3 LEC.)**

Provides for the analysis within a sociological context of the emergence of “society” and its “culture” as well as the prevailing social processes. Investigates basic principles of socialization, social class stratification, and the emergence of the primary social institutions within our culture. (ACTS: SOCI 1013)

**SOCI 2753H INTRODUCTION TO SOCIOLOGY (HONORS)  3 CR. (3 LEC.)**

Prerequisite: acceptance into the honors program.

Covers the same fundamental concepts as any introduction to sociology course but through the mediums of fiction, film, and music. Students will be asked to interpret novels, movies, and music as cultural texts in order to understand modern society from a sociological point of view. Topics include the history of modern society, social institutions, stratification, culture and language, technology, and society.

**SOCI 2853 SOCIAL PROBLEMS  3 CR. (3 LEC.)**

Prerequisite: SOCI 2753 Introduction to Sociology.

A comprehensive investigation of the major social problems currently faced by our society. Examples include crime and delinquency, problems of education, family problems and problem families, poverty, prejudice and discrimination, and personal pathological problems. (ACTS: SOCI 2013)

**SOCI 2863 INTRODUCTION TO SOCIAL RESEARCH METHODS  3 CR. (3 LEC.)**

Prerequisite: SOCI 2753 Introduction to Sociology and STAT 2503 Probability and Statistics.

Prerequisite or corequisite: ENGL 1213 Freshman English II.

Introduces various methodologies used in conducting scientific research in sociology, both quantitative and qualitative research; develops skills and strategies for beginning research and writing as a process, including finding and evaluating sources on the internet; and discusses ethical conduct in research, interviewing as a relationship, unobtrusive measures, action research, qualitative data, narrative analysis and the relevant aspects of the philosophy of science.

**SOCI 3113 RACE AND ETHNIC RELATIONS  3 CR. (3 LEC.)**

Prerequisite: SOCI 2863 Introduction to Social Research Methods and one of the following: ENGL 1213 Freshman English II or RHET 2863

Advanced Composition.

Course focuses on race and ethnic relations in societies and around the world, but with special emphasis on the United States. Examination of historical experiences and future prospects of racial and ethnic populations with particular attention to trends in relations between the dominant society and ethnic and minority groups.

**SOCI 3193 SOCIAL STRATIFICATION  3 CR. (3 LEC.)**

Prerequisite: SOCI 2863 Introduction to Social Research Methods and junior standing or consent of instructor.

Prerequisite or corequisite: ENGL 1213 Freshman English II.

Provides a comprehensive, up-to-date exploration of the local, national and global economic and social divisions in human societies. Various dimensions of inequality will be examined, including those related to gender, race, social class, age, religion and ethnicity. Special attention given to the effects dimensions of inequality have on human behavior and life chances.

**SOCI 3263 SOCIOLOGY OF THE FAMILY  3 CR. (3 LEC.)**

Prerequisite: SOCI 2753 Introduction to Sociology

Prerequisite or corequisite: ENGL 1213 Freshman English II.

Historical and cross-cultural comparison of variations in family form and kinship structures in contemporary American society. Analyzes the system of marriage and family, focuses on the family as a social institution within society, and combines the most current research base with an emphasis on family background and diversity.

**SOCI 3283 DEATH AND DYING  3 CR. (3 LEC.)**

Prerequisite: SOCI 2853 Social Problems or SOCI 3413 Sociological Theory

Prerequisite or corequisite: ENGL 1213 Freshman English II.

Explores contemporary issues associated with death- and dying-related phenomena, social and environmental factors causing death, dying as a social process; funerals and survivors, social and environmental factors affecting survivor adaptation, historical perspectives on death and dying and cultural solutions to dilemmas of death and dying.

**SOCI 3413 SOCIOLOGICAL THEORY  3 CR. (3 LEC.)**

Prerequisite: SOCI 2753 Introduction to Sociology

Prerequisite or corequisite: ENGL 1213 Freshman English II.
Introduces students to selected social theories and their major contributions to the field of sociology and provides a critical analysis of sociological theoreticians from the 19th century to the present.

**SOCI 4103**
**SOCIOLOGY OF ORGANIZATIONS**  
3 CR. (3 LEC.)
Prerequisite: SOCI 2863 Introduction to Social Research Methods.
Prerequisite or corequisite: ENGL 1213 Freshman English II.
Examination of a variety of complex organizations in modern society: schools, hospitals, corporations, unions, universities, and government. Organizational structures and processes are analyzed with emphasis on inter-organizational and organization-environment relations.

**SOCI 4123**
**AFRICAN-AMERICAN HISTORY TO 1865**  
3 CR. (3 LEC.)
Lectures, selected readings, and discussion on the development of the culture and history of African-Americans from slavery to emancipation.

**SOCI 4133**
**AFRICAN-AMERICAN HISTORY SINCE 1865**  
3 CR. (3 LEC.)
The socioeconomic, cultural, and political development of African-Americans from the end of the Civil War to the present.

**SOCI 4203**
**SOCIOLOGY: SPECIAL TOPICS**  
3 CR. (3 LEC.)
Prerequisites: SOCI 2863 Introduction to Social Research Methods, and one of the following: ENGL 1213 Freshman English II or RHET 2863 Advanced Composition.
Presentation of new and emerging topics of critical importance to the field of sociology that are not otherwise covered in the curriculum. Topics will be offered periodically based on the recognized needs of the field. May be repeated once for total of six hours.

**SOCI 4803**
**SENIOR SEMINAR**  
3 CR. (3 LEC.)
Prerequisites: 12 hours of sociology or consent of department head.
Topics will vary by student.

**SOCI 493V**
**SOCIOLOGY INDEPENDENT STUDY**  
1-3 CR. (VARIABLE)
Prerequisites: 15 hours of sociology and senior standing, or consent of the instructor.
Advanced assignments in selected areas. May be repeated for a total of six hours.

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**SPAN Spanish**

**SPAN 1304**
**BEGINNING SPANISH I**  
4 CR. (3 LEC., 2 LAB)
Foundation course in the fundamental Spanish language skills – listening comprehension, speaking, reading, writing, and cultural insight. The emphasis is on communication. (ACTS: SPAN 1013)

**SPAN 1314**
**BEGINNING SPANISH II**  
4 CR. (3 LEC., 2 LAB)
Prerequisite: Span 1304 Beginning Spanish I or required placement score.
Foundation course in the fundamental Spanish language skills – listening comprehension, speaking, reading, writing, and cultural insight. The emphasis is on communication. (ACTS: SPAN 1023)

**SPAN 2803**
**INTERMEDIATE SPANISH I**  
3 CR. (3 LEC.)
Prerequisites: SPAN 1314 Beginning Spanish II or required placement score.
Continues development of Spanish language skills. (ACTS: SPAN 2013)

**SPAN 2813**
**INTERMEDIATE SPANISH II**  
3 CR. (3 LEC.)
Prerequisites: SPAN 2803 Intermediate Spanish I or required placement.
Continues development of Spanish language skills. (ACTS: SPAN 2023)

**SPAN 3003**
**PHONETICS AND PRONUNCIATION**  
3 CR. (3 LEC.)
Prerequisite: SPAN 2813, Intermediate Spanish II.
Introduces the variation of pronunciation in the Spanish-speaking world. Study of the phonological and orthographic system, and the norms of Spanish pronunciation and spelling.

**SPAN 3013**
**GRAMMAR AND COMPOSITION I**  
3 CR. (3 LEC.)
Prerequisite: SPAN 2813 Intermediate Spanish II.
A review of Spanish grammar and an introduction to composition as it pertains to descriptions, discussions, hypothetical situations, and past and future tenses.

**SPAN 3023**
**ADVANCED CONVERSATION I**  
3 CR. (3 LEC.)
Prerequisite: SPAN 3013 Grammar and Composition I.
Emphasizes improvement and mastery of oral skills.
(interpersonal communication) and preparation for the oral proficiency interview (OPI).

**SPAN 3053 CULTURAL READINGS** 3 CR. (3 LEC.)
Prerequisite: SPAN 2813 Intermediate Spanish II. Development of interpretive and presentational skills through exposure to authentic materials such as short stories and articles.

**SPAN 3063 GRAMMAR AND COMPOSITION II** 3 CR. (3 LEC.)
Prerequisite: SPAN 3013 Grammar and Composition I. Focuses on grammar as well as interpretive, presentational, and interpersonal communication.

**SPAN 3233 SPANISH LITERATURE I** 3 CR. (3 LEC.)
Prerequisite: SPAN 3013 Grammar and Composition I or SPAN 3053 Cultural Readings. The literature of Iberian peoples from pre-modern to early 19th century.

**SPAN 3553 TRAVEL TO SPAIN OR LATIN AMERICA** 3 CR. (3 IND. STU.)
Prerequisites: SPAN 1314 Beginning Spanish II and approval by instructor or department head. Cultural immersion providing intensive experience with the language, cultural traditions, and social institutions of Spain or Latin America.

**SPAN 3623 LATIN AMERICAN LITERATURE I** 3 CR. (3 LEC.)
Prerequisite: SPAN 3013 Grammar and Composition I or SPAN 3053 Cultural Readings. Representative works of Latin American literature from pre-colonials to the early 20th century.

**SPAN 4043 LATIN AMERICAN LITERATURE II** 3 CR. (3 LEC.)
Prerequisite: SPAN 3013 Grammar and Composition I or SPAN 3053 Cultural Readings. Representative works of Latin American literature from the early 20th century to the present.

**SPAN 405V SPECIAL TOPICS** 1-3 CR. (VARIABLE)
Prerequisite: senior standing and consent of department head. Focused study of Spanish linguistics, literature, culture or civilization. May be repeated for a total of six hours.

**SPAN 4123 LATIN AMERICAN CIVILIZATION** 3 CR. (3 LEC.)
Prerequisite: SPAN 2813 Intermediate Spanish II. History, art, geography, and customs of people in Spanish America, including the major pre-Columbian civilizations.

**SPAN 4133 SPANISH CIVILIZATION** 3 CR. (3 LEC.)
Prerequisite: SPAN 2813 Intermediate Spanish II. The geography, arts, history, institutions, and customs of Spain.

**SPAN 4143 SPANISH LITERATURE II** 3 CR. (3 LEC.)
Prerequisite: SPAN 3013 Grammar and Composition I or SPAN 3053 Cultural Readings. Spanish literature from 19th century to the present.

**SPAN 4603 SPANISH LINGUISTICS** 3 CR. (3 LEC.)
Prerequisite: SPAN 3003 Phonetics and Pronunciation and SPAN 3013 Grammar and Composition I. An organized presentation of the fundamental areas of Hispanic linguistics, including morphology, phonetics, syntax, semantics, linguistic change, and the variation on linguistics.

**SPAN 464V SPANISH INDEPENDENT STUDY** 3 CR. (3 IND. STU.)
Prerequisites: senior standing and consent of department head. Provides advanced students with a course of study in an area not covered by departmental course offerings. May be repeated for a total of nine hours.

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**SPCH Speech**

**SPCH 1203 INTRODUCTION TO SPEECH COMMUNICATION** 3 CR. (3 IND. STU.)
Introduces the major areas of human communication, emphasizing public speaking, interpersonal, and small group skills. (ACTS: SPCH 1003)

**SPCH 1203H INTRODUCTION TO SPEECH COMMUNICATION (HONORS)** 3 CR. (3 LEC.)
Prerequisite or corequisite: HONR 1101 Introduction to Honors International Studies. Introduces the major areas of human communication, emphasizing public speaking, interpersonal, and small group skills. Practical
applications in presenting complex ideas and communication across cultures and ideologies.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 2203</td>
<td>Foundations of Communication</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: SPCH 1203 Introduction to Speech Communication. Basic theory in the foundations of human communication, including basics of perception, listening, verbal and non-verbal cues, persuasion, cultural-awareness and self-awareness in a variety of communication settings.</td>
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<tr>
<td>SPCH 2213</td>
<td>Interpersonal and Small Group Communication</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: SPCH 1203 Introduction to Speech Communication. Basic theory and practice in interpersonal and small-group communication, including conversation, relationships, conflict resolution, leadership, group membership, and problem-solving.</td>
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<tr>
<td>SPCH 2223</td>
<td>Advanced Public Speaking</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: SPCH 1203 Introduction to Speech Communication. Theory and extensive practice in preparing, delivering, and critiquing informative, persuasive, and special-occasion speeches for large groups.</td>
</tr>
<tr>
<td>SPCH 3143</td>
<td>Special Topics in Speech</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisites: SPCH 1203 Introduction to Speech Communication. Study and work in varied topics related to the delivery and reception of spoken language. May be repeated once for credit when topics differ.</td>
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<tr>
<td>SPCH 3203</td>
<td>Critical Listening</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: SPCH 2203 Foundations of Communication or consent of instructor. Basic theories of listening, including contextual, psychological, and logical bases and practice in listening for comprehension, analysis, and evaluation.</td>
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<tr>
<td>SPCH 3213</td>
<td>Non-Verbal Communication</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: SPCH 2203 Foundations of Communication or consent of instructor. Theory and practice in non-verbal communication in a variety of contexts, including attention to diversity and global awareness.</td>
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<tr>
<td>SPCH 3223</td>
<td>Argumentation and Debate</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: SPCH 2203 Foundations of Communication or consent of instructor. Theory and practice in debate.</td>
</tr>
<tr>
<td>SPCH 4203</td>
<td>Culture and Communication</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisites: SPCH 2203 Foundations of Communication or consent of instructor. Theory and practice in communication across cultural boundaries, with emphasis on how culture reinforces various conventions of communication in business, the arts, and the media.</td>
</tr>
<tr>
<td>SPCH 4213</td>
<td>Rhetorical Criticism – Oratory</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisites: SPCH 2203 Foundations of Communication or consent of instructor. Theory and practice in analyzing speakers and their speeches using classical and contemporary models of rhetorical criticism.</td>
</tr>
</tbody>
</table>

**SPED Special Education**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>SPED 3022</td>
<td>Survey of Diverse Populations</td>
<td>2 CR. (2 LEC.)</td>
<td>Prerequisite: admission to teacher education. Corequisite: EDUC 4211 Practicum II and EDUC 3612 Classroom and Behavioral Management. A survey of diverse populations designed to provide a knowledge and understanding of individuals with exceptionality and students from different cultures, and of their special needs within a school program.</td>
</tr>
<tr>
<td>SPED 3203</td>
<td>Nature and Needs of Students with Mild Disabilities</td>
<td>3 CR. (3 LEC.)</td>
<td>Prerequisite: admission to Special Education Endorsement Program. Study of the individual with mild disabilities including etiology, growth patterns resulting from physical, mental, and cultural disabilities; contributions of medical science, and techniques of behavior management. Also includes the theoretical foundations of each mild disability categorical area, definitions, classification systems; and learning characteristics (cognitive, academic, social, behavioral, etc.) of students with mild disabilities; and an introduction to interpretation of psychological evaluations and IEP preparation. Focuses on students</td>
</tr>
</tbody>
</table>
in grades P-12 requiring an Individualized General Curriculum in a variety of service delivery options.

**SPED 3313 LANGUAGE DEVELOPMENT** 3 CR. (3 LEC.)

Prerequisite: admission to the Special Education Endorsement Program and SPED 3203 Nature and Needs of Students with Mild Disabilities.

Concerns oral language development of students with mild disabilities in the areas of phonology, morphology, syntax, semantics, and pragmatics; and written language development of P-12 students. A major focus includes methods and materials in teaching early childhood integrated language enrichment curricula and a modified general education curriculum in language-based subjects grades 4-12.

**SPED 3413 CLASSROOM AND GROUP MANAGEMENT** 3 CR. (3 LEC.)

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, and SPED 3313 Language Development.

Corequisite: SPED 4213 Instructional Planning P-4 or SPED 4223 Instructional Planning 4-12.

Focuses on helping teachers develop personal systems of discipline through study and research of the major philosophies and models of discipline; study of generic classroom management principles including preventing discipline problems, motivating students, and confronting and solving discipline problems; and application of theoretical information to problem solving case studies and classroom problems for students with mild disabilities in a variety of placements at P-12 grade levels.

**SPED 3423 EDUCATIONAL DIAGNOSIS AND ASSESSMENT** 3 CR. (3 LEC.)

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, SPED 3313 Language Development, SPED 3413 Classroom and Group Management, and SPED 4213 Instructional Planning P-4 or SPED 4223 Instructional Planning 4-12.

Corequisite: SPED 4343 Methods and Materials P-4 or SPED 4353 Methods and Materials 4-12.

Studies collection and use of academic and behavioral data for special education purposes (screening, eligibility for services, program planning, monitoring Individual Education Programs, program evaluation); and application of assessment results to Individual Education Program development. Focuses on a variety of assessment procedures including norm-referenced testing, criterion-referenced testing, curriculum-based assessment, ecological assessment, and systematic observation in the P-12 education curriculum and social/behavioral skills including functional behavioral assessment and intervention plan.

**SPED 4213 INSTRUCTIONAL PLANNING P-4** 3 CR. (3 LEC.)

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, SPED 3313 Language Development.

Corequisite: SPED 3413 Classroom and Group Management.

Includes the theoretical basis for curricular development; interpreting evaluation reports, and developing Individual Education Programs and Individual Family Service Programs in developmental, academic, social/behavioral areas for P-4 children.

**SPED 4223 INSTRUCTIONAL PLANNING 4-12** 3 CR. (3 LEC.)

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, SPED 3313 Language Development.

Corequisite: SPED 3413 Classroom and Group Management.

Theoretical basis for curricular development; interpreting evaluation reports, and developing Individual Education Programs and adolescent Individual Transition Programs in academic, social/behavioral and transition-related skills for students with mild disabilities functioning in 4-12 age/grade levels.

**SPED 4343 METHODS AND MATERIALS P-4** 3 CR. (3 LEC.)


Corequisite: SPED 3423 Educational Diagnosis and Assessment.

Studies the research-based instructional strategies used in teaching students with mild disabilities functioning at preschool through grade 4 levels.
Focuses on methods and materials for teaching developmentally appropriate curricula for young children and a modified individualized general curriculum for students functioning at grade 1-4 levels.

**SPED 4353 METHODS AND MATERIALS FOR TEACHING STUDENTS WITH MILD DISABILITIES 4-12 GRADES 3 CR. (3 LEC.)**

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, SPED 3313 Language Development, SPED 3413 Classroom and Group Management, and SPED 4223 Instructional Planning 4-12.

Corequisite: SPED 3423 Educational Diagnosis and Assessment

Studies the research-based instructional strategies used in teaching students with mild disabilities, and focuses on methods and materials for teaching a modified individualized general curriculum for students functioning at grade 4-12 levels.

**SPED 4903 DIRECTED INTERNSHIP P-4 3 CR. (3 LAB)**

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, SPED 3313 Language Development, SPED 3413 Classroom and Group Management, SPED 4213 Instructional Planning P-4, SPED 3423 Educational Diagnosis and Assessment, and SPED 4343 Methods and Materials P-4.

Requires on-site teaching in public school settings grades P-4 with students with mild disabilities. Internship should be a culminating experience in the special education teacher preparation program. Requires a minimum of 6 weeks of teaching experience for those not teaching in their own classrooms or one semester for those teaching in their own classroom. Activities include working with paraprofessionals, community agencies, and parents under the supervision of school officials and university supervisor.

**SPED 4913 DIRECTED INTERNSHIP 4-12 3 CR. (3 LAB)**

Prerequisite: admission to the Special Education Endorsement Program, SPED 3203 Nature and Needs of Students with Mild Disabilities, SPED 3313 Language Development, SPED 3413 Classroom and Group Management, and SPED 4223 Instructional Planning 4-12, SPED 3423 Educational Diagnosis and Assessment, and SPED 4353 Methods and Materials for Teaching Students with Mild Disabilities 4-12 Grades

Requires on-site teaching in public school settings grades 4-12 with students with mild disabilities. The intensive directed internship should be a culminating experience in the special education teacher preparation program. Requires a minimum of 6 weeks of teaching experience for those not teaching in their own classrooms or one semester for those teaching in their own classroom. Activities include working with paraprofessionals, community agencies, and parents under the supervision of school officials and university supervisor.

**SPEL Spelling**

**SPEL 0052 SPELLING IMPROVEMENT 2 CR. (2 IND. STU.)**

Prerequisite: required COMPASS placement score.

Designed to expand the student's ability to spell correctly through an emphasis on specific spelling principles. It covers basic rules, phonics, word-analysis pronunciation, proofreading, and spelling fundamentals. Students must demonstrate prescribed mastery to exit this course. Students are required to meet with instructors once a week. Videos and computer programs required by the course are offered through the LAC.

**STAT Statistics**

**STAT 2503 PROBABILITY AND STATISTICS I 3 CR. (3 LEC.)**

Prerequisites: MATH 1303 College Mathematics, or MATH 1403 College Algebra, or required placement score

An introductory course in probability and statistics, including statistical terminology, descriptive data, linear regression, probabilities, probability distributions, discrete and random variables, sampling distributions, point and interval estimation, and hypothesis testing. (ACTS: MATH 2103)

**STAT 2603 PROBABILITY AND STATISTICS II 3 CR. (3 LEC.)**

Prerequisite: STAT 2503 Probability and Statistics I. A continuation of STAT 2503. Topics include analysis of variance, simple linear regression, multiple regression and model building, categorical data analysis, and methods of nonparametric statistics.
### STAT 3503 APPLIED
#### MATHEMATICAL STATISTICS I 3 CR. (3 LEC.)
- Prerequisite: MATH 2854 Calculus II.
- Probability spaces, properties of the standard probability distributions, and random variables. Topics include moment generating function, transformations of random variables, sampling distributions, covariance and correlation, point and interval estimation, and single sample hypothesis tests. Students will use computer spreadsheets and graphing calculators.

### STAT 4503 APPLIED
#### MATHEMATICAL STATISTICS II 3 CR. (3 LEC.)
- Prerequisite: STAT 3503 Applied Mathematical Statistics I.
- A continuation of STAT 3503. Topics include tests of hypotheses based on single and multiple samples, one and two-factor analysis of variance, regression and correlation, goodness-of-fit tests and two-way contingency tables, and an introduction to nonparametric methods.

### SUR  Surgical Technology

Enrollment in courses beginning with the SUR prefix requires admission into the surgical technology program.

### SUR 1526 SURGICAL TECHNOLOGY
#### PROCEDURES I 6 CR. (6 LEC.)
- Prerequisites: American Heart Association’s CPR for Healthcare Providers, HLTH 1473 Medical Terminology, BIOL 1533/1531 Anatomy & Physiology II/Lab II, MATH 1403 College Algebra, BIOL 1463/1461, Microbiology & Immunology/Lab, ENGL 1213 Freshman English II, PSYC 1163 General Psychology, ITA 1003 Computer Applications for the Knowledge Worker or ITA 1051 and two hours from ITA 1101, 1201, 1251.
- Corequisite: SUR 153A Surgical Technology Practicum I.
- Introduces students to preparation, sterilization, and disinfection of supplies used in surgery; orientation to the basic concepts of anesthesia and its associated hazards; and the physical, social, spiritual, and psychological needs of the surgical patient.

### SUR 153A SURGICAL TECHNOLOGY
#### PRACTICUM I 10 CR. (20 LAB)
- Prerequisites: American Heart Association’s CPR for Healthcare Providers, HLTH 1473 Medical Terminology, BIOL 1533/1531 Anatomy & Physiology II/Lab II, MATH 1403 College Algebra, BIOL 1463/1461, Microbiology & Immunology/Lab, ENGL 1213 Freshman English II, PSYC 1163 General Psychology, ITA 1003 Computer Applications for the Knowledge Worker or ITA 1051 and two hours from ITA 1101, 1201, 1251.
- Corequisite: SUR 1526 Surgical Technology Procedures I.
- Students are introduced to the physical environment of the operating suite with selected clinical experiences in the community hospitals. Students have many experiences in the care and use of instruments and surgical supplies, as well as multiple opportunities to scrub for surgical procedures.

### SUR 1546 SURGICAL TECHNOLOGY
#### PROCEDURES II 6 CR. (6 LEC.)
- Prerequisites: SUR 1526 Surgical Technology Procedures I and SUR 153A Surgical Technology Practicum I.
- Corequisite: SUR 155A Surgical Technology Practicum II.
- Students learn the advanced principles, procedures, and techniques of specific, general, and specialty surgeries. The course content is correlated with anatomy and physiology, along with the operating room experiences.

### SUR 155A SURGICAL TECHNOLOGY
#### PRACTICUM II 10 CR. (20 LAB)
- Prerequisites: SUR 1526 Surgical Technology Procedures I, SUR 153A Surgical Technology Practicum I.
- Corequisite: SUR 1546 Surgical Technology Procedures II.
- Students perform surgical functions in all phases of surgical procedures, acquire a working knowledge of specialty instruments and equipment, and perform circulating duties under direct supervision.
TCHG  Technology

TCHG 190V GENERAL TECHNOLOGY
WORK-BASED LEARNING  1-6 CR. (VARIABLE)

Prerequisite: consent of instructor.
Work-based learning is a comprehensive treatment of relevant work experience related to the student’s major field of study including cooperative education, apprenticeships, extended job shadowing, internships, and any other systematic, planned work experience. Academic faculty and local employers work together with students to enhance the relationship between classroom instruction and work experience. Faculty sponsor approves the work experience and number of credit hours. May be repeated for a total of six hours.

TCHG 290V GENERAL TECHNOLOGY
SPECIAL TOPICS  1-5 CR. (VARIABLE)

New and emerging topics in general technology that are not otherwise covered in the curriculum. Topics in these emerging technologies will be offered periodically based on the recognized needs in the field. May be taken 2 times for up to 10 credit hours when topics differ.

TCHG 1182
INDUSTRIAL SAFETY  2 CR. (2 LEC.)

Study of causes, costs, and prevention of industrial accidents. Emphasis on state safety requirements and OSHA regulations.

TCHG 3102
CNC MILLING & TURNING  2 CR. (2 LEC.)

Prerequisite: consent of department head.
Lays the foundation of numerical control (NC) and computer numerical control (CNC) by examining the history of its development through current applications in a manufacturing environment. The production of component parts is planned using the Cartesian coordinate system, geometry, and trigonometry. Students will be introduced to methods of translating two-dimensional drawings into finished products. Computer-aided programming languages are examined. EIA RS 274 D standard format (G code and M code) programming is applied to the production of a part.

TCHG 3203
AUTOMATED MATERIAL HANDLING  3 CR. (3 LEC.)

Prerequisite: consent of department head.
Explores the development of automated material handling systems for use in a computer-controlled, centralized automated system of manufacturing and distribution. Reviews historical and current development trends in robots, automated storage/retrieval systems, and conveyor systems. Activities include programming of robots and automated storage/retrieval systems using inductive logic and programming languages. Examines the use of bar code technology and other automated identification and data-collection techniques.

THEA  Theatre

THEA 1203
INTRODUCTION TO THEATRE  3 CR. (3 LEC.)

An introduction to the practice of theatre as an art form. Emphasis is on the artistic and cultural significance of the theatre and the role of the modern theatrical artist. (ACTS: DRAM 1003)

THEA 1303 ACTING I  3 CR. (2 LEC., 2 STU.)

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor.
Student studies and applies the techniques of acting. Emphasis on creative self-expression.

THEA 1431 THEATRE PRACTICUM (PERFORMANCE)  1 CR. (1 PART.)

Participation in the semester’s dramatic productions as a performer and analysis of the performance process.

THEA 1451
THEATRE PRACTICUM (TECHNICAL)  1 CR. (1 PART.)

Participation in the semester’s dramatic productions in the technical areas with analysis of the technical/design process.

THEA 1503 STAGECRAFT  3 CR. (3 LEC.)

Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor.
Introduction to technical problems in the production of plays: scenery, lighting, sound, costuming, and makeup.

THEA 1711 STUDIO DANCE I  1 CR. (2 STU.)

An introduction to the techniques of ballet and jazz dance, concentrating on solo and group choreography.

THEA 1721 STUDIO DANCE II  1 CR. (2 STU.)

Prerequisite: THEA 1711 Studio Dance I or consent of instructor.
Continuation of THEA 1711 to include tap and modern choreography.
THEA 2313
VOICE AND MOVEMENT         3 CR. (2 LEC., 2 STU.)
Prerequisite: THEA 1303 Acting I or consent of instructor.
A study of the production of speech as it applies to standard American English as a spoken language and a study of kinetics as it relates to character development. Designed to improve speech production and the actor's awareness of body movement.

THEA 2513
FUNDAMENTALS OF DESIGN       3 CR. (3 LEC.)
Prerequisite: THEA 1503 Stagecraft or consent of instructor.
Introduction to the philosophical, critical, and practical processes of design in theatre stenographic art.

THEA 2603 DIRECTING I        3 CR. (3 LEC.)
Prerequisite: THEA 1303 Acting I or consent of instructor.
Acquaints the student, through study and practice, with the problems of producing plays.

THEA 3313 ACTING II          3 CR. (3 STU.)
Prerequisite: THEA 1303 Acting I or consent of instructor.
An intermediate course in acting to develop the actor's choice-making and action/reaction awareness through scene study of various theatrical styles.

THEA 3323 PERSONAL PERFORMANCE 3 CR. (2 LEC., 2 STU.)
Prerequisite: THEA 1303 Acting I or consent of instructor.
Advanced course focused on personal process development and individual artistic expression through character.

THEA 3523 STAGE MAKEUP       3 CR. (2 LEC., 2 STU.)
Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor.
An overview of the elements of makeup as they relate to the creation of character, focusing on both the design and application of makeup and appliances.

THEA 3533 SCENIC DESIGN      3 CR. (3 LEC.)
Prerequisite: THEA 2513 Fundamentals of Design or consent of instructor.
Study of the scenographic art and its usage in modern theatrical design including application of design elements and scale and perspective rendering.

THEA 3543 LIGHTING DESIGN    3 CR. (3 LEC.)
Prerequisite: THEA 2513 Fundamentals of Design or consent of instructor.
Use of light as means of artistic expression, and the study of the controllable properties associated with lighting design.

THEA 4213 THEATRE HISTORY I  3 CR. (3 LEC.)
Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor.
Study of theatre from its origins up to circa 1800 with a focus on both history and the literature of each time period.

THEA 4223 THEATRE HISTORY II 3 CR. (3 LEC.)
Prerequisite: THEA 1203 Introduction to Theatre or consent of instructor.
The history and literature of the theatre of the last 200 years, including a study of non-western theatre traditions.

THEA 4333 AUDITIONING         3 CR. (3 LEC.)
Prerequisite: THEA 3313 Acting II or consent of instructor.
Techniques for monologue performance and auditioning for professional theatre. Students will also focus on material selection, script preparation, and resume building.

THEA 446V SPECIAL TOPICS IN THEATRE 1-3 CR. (VARIABLE)
Prerequisites: Junior standing or consent of instructor.
Presents current or special topics in theatre. Areas chosen are based on faculty expertise and student interest. May be repeated up to three times when topics differ for a maximum of 9 hours.

THEA 4553 COSTUME DESIGN     3 CR. (3 LEC.)
Prerequisite: THEA 2513 Fundamentals of Design or consent of instructor.
A study of the elements of costume design as they relate to the visual expression of characters and themes.

THEA 4613 DIRECTING II       3 CR. (3 LEC.)
Prerequisite: THEA 2603 Directing I or consent of instructor.
Deals with advanced problems in play direction and production. Students direct their own one-act play.
THEA 4623 STAGE MANAGEMENT  3 CR. (3 LEC.)
Prerequisite: THEA 2603 Directing I or consent of instructor.
Studies the art of stage management, and business and administrative elements of play production.

THEA 4713 STUDIES IN ACTING/DIRECTING  3 CR. (3 LEC.)
Prerequisite: consent of instructor.
Special studies in acting or directing. A variable topic course to further explore specific elements of theatre.

THEA 4723 STUDIES IN DESIGN  3 CR. (3 LEC.)
Prerequisite: consent of instructor.
Special studies in design. A variable topic course to further explore specific elements of theatre.

WELD  Welding

WELD 1182
BLUEPRINT READING FOR WELDERS  2 CR. (2 LEC.)
Develops basic skills in reading blueprints and introduces students to various types of working drawings for engineering and manufacturing purposes. Emphasis on understanding basic concepts of orthographic projection and the ability to visualize objects.

WELD 1234 INTRODUCTION TO WELDING AND PRINT READING  4 CR. (2 LEC., 4 LAB)
Major emphasis on shop safety, oxy-fuel set-up, cutting, and shut down, plasma cutting, Arc-Mig-Tig equipment set-up. Develops basic skills in reading blueprints and introduces the student to various types of working drawings for fabrication and manufacturing purposes.

WELD 1284
ARC WELDING–BASIC  4 CR. (2 LEC., 4 LAB)
Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading.
Designed to give students a knowledge of equipment, safety precautions, and shop practice. They will make basic types of fillet welds in most positions and study welding nomenclature, design of joints, and electrode classifications.

WELD 1384
TIG WELDING–BASIC  4 CR. (2 LEC., 4 LAB)
Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading.
In-depth study and practice of the gas tungsten arc-welding process. Techniques of making welds in the flat and horizontal positions are mastered on carbon steel, aluminum, and stainless steel.

WELD 1404
MIG WELDING–BASIC  4 CR. (2 LEC., 4 LAB)
Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading.
In-depth study and practice of the gas metal, arc-welding process. The student will learn the principles of constant voltage power source and the mechanics and maintenance of various wire feeding systems. Practical assignments will include short circuit transfer on mild steel fillet welds in all positions, flux-cored arc welding of fillet welds in all positions, and AWS required workmanship samples.

WELD 1454 LAYOUT AND FABRICATION–SHEET METAL  4 CR. (2 LEC., 4 LAB)
Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading.
Study of the theory and practice of layout and the fabrication of basic fittings using sheet metal. The student will learn the process of fabricating these basic fittings from sheet metal using different methods.

WELD 1463 COMPUTER-AIDED LAYOUT AND FABRICATION  3 CR. (2 LEC., 2 LAB)
Designed to enable students to gain knowledge and practical application in automated methods of the machining industry. Hands-on training will enable students to gain experience in Computer Numerical Control programming by way of SmartCAM Computer-Aided Manufacturing software. Application of this software will be applied to the operation of a plasma and oxy/fuel cutter.

WELD 1474 LAYOUT AND FABRICATION–STRUCTURAL AND PIPE  4 CR. (2 LEC., 4 LAB)
Prerequisite or corequisite: WELD 1234 Introduction to Welding and Print Reading.
Study of the theory and practice of layout and fitting pipe and structural steel. The student will learn the process of fabricating structural joints from pipe and steel through a series of competency-based exercises.
WELD 190V WELDING
WORK-BASED LEARNING 1-4 CR. (VARIABLE)
Prerequisite: consent of instructor.
Work-based learning is a comprehensive treatment of relevant work experience related to the student's major field of study. It includes cooperative education, apprenticeships, extended job shadowing, internships, and any other systematic, planned work experience. Academic faculty and local employers work together with students to ensure the relationship between classroom instruction and work experience. The faculty sponsor approves the work experience and the number of hours of credit to be earned. May be repeated for a total of four hours.

WELD 2282 SMAW CERTIFICATION ASSESSMENT 2 CR. (1 LEC., 2 LAB)
Prerequisite: WELD 2284 Arc Welding-Advanced.
Assesses the student's ability to pass certification tests in shielded metal arc welding by studying the procedures and standards established by the American Welding Society and used in the certification examination.

WELD 2284 ARC WELDING–ADVANCED 4 CR. (2 LEC., 4 LAB)
Prerequisite: WELD 1284 Arc Welding-Basic.
Study and practice of advanced arc welding techniques, using mild steel electrodes in the horizontal, vertical, and overhead positions on structural plate. Emphasis on identifying and analyzing defects in welding joints will be studied.

WELD 2384 TIG WELDING–ADVANCED 4 CR. (2 LEC., 4 LAB)
Prerequisite: WELD 1384 TIG Welding-Basic.
Study and practice of the gas tungsten arc welding process. Techniques of making welds in the vertical and horizontal positions are mastered on carbon steel, aluminum, and stainless steel. American Welding Society workmanship samples will be fabricated and welded as required.

WELD 2402 GMAW CERTIFICATION ASSESSMENT 2 CR. (1 LEC., 2 LAB)
Prerequisite: WELD 2404 MIG Welding-Advanced.
Assesses the student’s ability to pass certification tests in gas metal arc welding and flux core arc welding by studying the procedures and standards established by the American Welding Society and used in the certification examination.

WELD 2404 MIG WELDING–ADVANCED 4 CR. (2 LEC., 4 LAB)
Prerequisite: WELD 1404 MIG Welding-Basic.
Study and practice of gas metal arc welding and flux core arc welding on groove welds in all positions. Machine set-up and techniques for ferrous metals, will be practiced. Metal transfers, including short circuit and spray, will be studied and practiced. Shielding gases and their effects on final weld quality will be evaluated. An American Welding Society workmanship sample will be fabricated and welded as required.

WELD 2484 PIPE WELDING 4 CR. (2 LEC., 4 LAB)
Prerequisite: WELD 2284 Arc Welding-Advanced.
Designed to develop skills used in the welding of both transmission pipeline and piping systems. Emphasis is placed on the particular skills needed to meet the standards of the American Welding Society and American Society of Mechanical Engineers.

WELD 290V WELDING: SPECIAL TOPICS 1-5 CR. (VARIABLE)
Prerequisite: consent of instructor.
Designed to give special instruction for new and emerging topics in welding not otherwise covered in the curriculum. Topics in these emerging technologies will be offered periodically based on the recognized needs of the field and the availability of instructors.

WELD 299V WELDING: SPECIAL PROJECTS 1-3 CR. (VARIABLE)
Prerequisite: consent of instructor.
Designed for the advanced welding student who has completed or is enrolled in all other appropriate welding courses at UAFS. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the dean. May be repeated when topics differ for a total of six hours.

WFL Workforce Leadership
WFL 1174 TOTAL QUALITY ESSENTIALS 4 CR. (4 LEC)
Prerequisite: consent of department head.
Provides an overview of the basic essentials of total-quality processes needed to be an effective leader in today's changing workforce.
WFL 1374 HUMAN RELATIONS AND INTERPERSONAL DEVELOPMENT 4 CR. (4 LEC)
Prerequisite: consent of department head.
Designed to develop and improve skills in the area of supervision for individuals employed by business and industry. The emphasis is on the skills needed for effective leadership, including the ability to communicate, to understand human needs, to motivate others, to use authority, and to increase group productivity.

WFL 1601 BASIC BUSINESS COMMUNICATION USING MICROSOFT WORD 1 CR. (1 LEC)
Basic word-processing skills provided in a business context. Topics include text entry and editing, character formatting, paragraph formatting, tabs, tables, document formatting, and print setup.

WFL 1611 BASIC BUSINESS CALCULATIONS USING MICROSOFT EXCEL 1 CR. (1 LEC)
Creating simple worksheets, creating simple formulas and functions, order of operations, creating charts, formatting worksheets, and printing worksheets.

WFL 1621 BASIC ELECTRONIC PRESENTATIONS USING MICROSOFT POWERPOINT 1 CR. (1 LEC)
Creating and delivering electronic presentations, working with graphics including graphics files, clip art, word art and drawing tools, charting, animation and sound.

WFL 1631 DATA FUNDAMENTALS USING MICROSOFT ACCESS 1 CR. (1 LEC)
Topics include database terminology and concepts, exploring an existing Access database, creating a database file, creating and populating tables, creating simple queries, calculating in queries, table relationships, and simple forms and reports.

WFL 2174 INTRODUCTION TO LEAN ENTERPRISE SYSTEMS 4 CR. (4 LEC)
Prerequisite: consent of department head.
Examines the concept of achieving a lean enterprise in business and manufacturing operations. The students explore the strategies and philosophies of operating a business in today's changing times.

WFL 2303 SIX SIGMA STRATEGIES 3 CR. (3 LEC)
Prerequisite: MATH 1303 College Mathematics, or MATH 1403 College Algebra, or consent of department head.
An overview of Six Sigma methodologies used to improve company performance with an emphasis in the DMAIC (define, measure, analyze, improve, control) approach. The course will also examine the value of using quality and performance measures to define strategy in an organization.

WFL 2313 THE LEAN ENTERPRISE SYSTEM 3 CR. (3 LEC)
Prerequisite: consent of department head.
Develops the learner's ability to understand and manage the lean enterprise—high quality, lowered costs, shortened delivery times, and increased profits.

WFL 2402 FUNDAMENTALS OF FINANCE AND ACCOUNTING FOR NON-FINANCIAL MANAGERS 2 CR. (2 LEC)
Basic financial and accounting concepts for workers in non-financial roles. Course focuses on retrieving and presenting financial information in support of the decision making process. Subject matter ranges from simple budgeting tools to presenting annual reports.

WFL 2403 ORGANIZATIONAL CONCEPTS 3 CR. (3 LEC)
Prerequisite: consent of department head.
Looks at organizational skills and analyzes company-wide organizational practices with an emphasis in management techniques.

WFL 2413 PROJECT MANAGEMENT 3 CR. (3 LEC)
Prerequisite: consent of department head.
Using project-management tools and fundamental concepts to develop skills in project selection, assessment, analysis, planning, and tracking. Concepts include risk, task, and resource management.

WFL 2501 SET-UP REDUCTION 1 CR. (1 LEC)
Prerequisite: consent of department head.
Provides the fundamentals of set-up time and waste reduction in order to maximize equipment availability. It covers the key concepts and application of the Single Minute Exchange of Die (SMED) system including the key elements of variation reduction, interchangeability, tool and equipment proximity, preset tooling and first piece quality checks.

WFL 2583 ADVANCED TEAM BUILDING 3 CR. (3 LEC)
Prerequisite: WFL 1374 Human Relations and Interpersonal Development or consent of department head.
Designed to guide students through the steps
necessary to build workplace teams. The successful student will be able to determine the most appropriate type of team for a given setting and to set up measurement and feedback systems to support that team. The student will also learn how to manage and guide workplace teams.

**WFL 2603 INTEGRATING TECHNOLOGY WITH MANAGEMENT**  
3 CR. (3 LEC)  
Prerequisite: consent of department head.  
Instruction and hands-on application using office and enterprise management software to identify, gather, classify, analyze, and present information.

**WFL 2611 ELECTRONIC COMMUNICATION USING MICROSOFT WORD**  
1 CR. (1 LEC)  
Prerequisite: WFL 2603 Integrating Technology with Management or ITA 1051 Computer – Word Processing or WFL 1601 Basic Business Communication using Microsoft Word or consent of department head.  
The mechanics of creating business documents using intermediate-level Microsoft Word skills. Topics include documents with multiple sections and multiple document formats; advanced tables; creation of business mailings using mail merge; and document automation using styles, templates, and other automation features.

**WFL 2621 PROCESS AND POLICY DOCUMENTATION USING MICROSOFT WORD**  
1 CR. (1 LEC)  
Prerequisite: WFL 2611 Electronic Communication Using Microsoft Word or consent of department head.  
Advanced word-processing skills necessary to create process and policy documentation in business and industry. Topics include automatic indexes and tables of contents; advanced graphics; document sharing and change tracking; and Webpage development using Microsoft Word.

**WFL 2631 BUSINESS DATA ANALYSIS USING MICROSOFT EXCEL**  
1 CR. (1 LEC)  
Prerequisite: WFL 2603 Integrating Technology with Management or ITA 1251 Computer-Spreadsheets or WFL 1611 Basic Business Calculations Using Microsoft Excel or consent of department head.  
Analysis of business data using intermediate spreadsheet skills. Includes creating multi-sheet workbooks using 3-D formulas; creating decision-making formulas; calculating payments and future values of investments; and using lists to sort, filter, and subtotal data.

**WFL 2641 PROCESS IMPROVEMENT CALCULATIONS USING MICROSOFT EXCEL**  
1 CR. (1 LEC)  
Prerequisite: WFL 2631 Business Data Analysis Using Microsoft Excel or consent of department head.  
Advanced spreadsheet calculations for business and industry. Topics include complex decision-making formulas and functions; pivot tables and charts; worksheet protection and templates; data consolidation; and macros.

**WFL 2651 ADVANCED ELECTRONIC PRESENTATIONS USING MICROSOFT POWERPOINT**  
1 CR. (1 LEC)  
Prerequisite: WFL 2603 Integrating Technology with Management or ITA 1101 Computer-Presentation Graphics or WFL 1621 Basic Electronic Presentations Using Microsoft PowerPoint or consent of department head.  
Creation of advanced electronic presentations using intermediate to advanced Microsoft PowerPoint skills. Topics include creating templates using custom backgrounds, color schemes and slide masters; advanced multimedia including movies, animated GIFs, sound files and animation; and creation of interactive presentations using hyperlinks and custom shows. Effective presentation delivery will also be stressed.

**WFL 2661 DATABASE STANDARDS AND DESIGN USING MICROSOFT ACCESS**  
1 CR. (1 LEC)  
Prerequisite: ITA 1201 Computer-Database or WFL 1631 Data Fundamentals Using Microsoft Access or consent of department head.  
The design and development of relational databases using intermediate-level Microsoft Access skills. Topics include data normalization and related tables; creation of forms using combo boxes and calculated controls; creation of data-access pages; and creation of reports using calculated controls.

**WFL 2671 DATA CONTROL AND ANALYSIS USING MICROSOFT ACCESS**  
1 CR. (1 LEC)  
Prerequisite: WFL 2661 Database Standards and Design Using Microsoft Access or consent of department head.  
Advanced database skills using Microsoft Access. Topics include parameter and action queries; queries using inner-, outer- and self-joins; forms using tab controls, subforms and option groups; reports using advanced calculations; and macros.
WFL 2853 PROBLEM SOLVING AND DECISION MAKING 3 CR. (3 LEC)
Prerequisite: WFL 1374 Human Relations and Interpersonal Development or consent of department head.
Designed to guide students in the tools and techniques of project selection, design, analysis, and presentation of workforce projects. The successful student should gain knowledge for preparation and implementation of workforce projects which are so vital in the quest for continuous improvement.

WFL 290V INDUSTRY SPECIAL TOPICS 1-5 CR. (VARIABLE)
Prerequisite: consent of department head.
Gives special instruction on new and emerging topics in industry not otherwise addressed. Topics will be offered periodically based on recognized need. Course may be repeated for a maximum of 10 hours toward the AAS in Workforce Leadership.

WFL 2903 WORKFORCE LEADERSHIP CAPSTONE 3 CR. (3 IND. STU.)
Prerequisite: consent of department head.
Corequisite: last nine hours of associate program.
Independent study project in which student must demonstrate advanced workforce leadership skills with emphasis in project management, lean-enterprise principles, and problem solving using computer applications and team-based initiatives. Student will work with instructor to develop, implement, and report on a project implemented in an organizational environment.

WFL 2993 WORKFORCE LEADERSHIP: SPECIAL PROJECTS 3 CR. (IND. STU.)
Prerequisite: WFL 1174 Total Quality Essentials, WFL 1374 Human Relations and Interpersonal Development, or WFL 2174 Introduction to Lean Enterprise Systems, or consent of department head.
An independent study project in which the student must demonstrate advanced problem solving, critical thinking, and communication/presentation skills. Project will be selected by the student with approval of instructor. Projects must be from the fields of team management, quality technology, CIS, and/or lean enterprise.
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