

CHANCELLOR'S MESSAGE

You hold in your hands an important key to success.

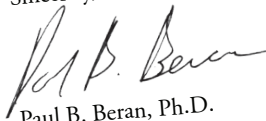
This catalog will help you unlock the doors of your future and prepare you for success in work and in life. The University of Arkansas - Fort Smith is a place of fresh ideas. We've designed our courses not only to provide the knowledge you'll need to accomplish your career goals, but also to challenge 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 UA Fort Smith, 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 UA Fort Smith is taught by a graduate assistant; our faculty are dedicated to balancing classroom instruction with practical and hands-on training that can be immediately applied upon graduation.

UA Fort Smith continues to enjoy a cooperative and productive relationship with regional communities, ensuring that our students have the opportunity to apply their training 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



UNIVERSITY OF ARKANSAS - FORT SMITH CALENDAR 2011-2012

FALL SEMESTER - 2011

New Student Convocation.....	(U) August 21
Classes Begin.....	(M) August 22
Holiday (Labor Day).....	(M) September 5
Fall Break.....	(W-U) November 23-27
Last Day of Classes.....	(T) December 6
Final Exam Week.....	(W-T) December 7-13
Commencement.....	(W) December 14

SPRING SEMESTER - 2012

Classes Begin.....	(M) January 9
Holiday (Martin Luther King Jr.).....	(M) January 16
Spring Break.....	(M-U) March 19-25
Faculty Appreciation Ceremony/Undergraduate Research Symposium.....	(F) April 13
Last Day of Classes.....	(F) April 27
Final Exam Week.....	(S-F) April 28 - May 4
Commencement.....	(S) May 5

DOMESTIC AND INTERNATIONAL MAYMESTER - 2012

Classes Begin.....	(M) May 7
Last Day of Term.....	(F) May 25

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

TABLE OF CONTENTS

Chancellor’s Message 1
 University Calendar.....2
 Phone Directory.....4-5
 Character of the University.....7-11
 Admissions13-20
 Tuition and Fees.....21-24
 Financial Aid & Scholarships25-29
 Campus Life and Services.....31-39
 Academic Support Services.....41-46
 Academic Information.....47-57
 Graduation Requirements59-65
 Academic Programs.....67-68
 College of Applied Science and Technology.....69-87
 College of Business.....89-94
 College of Education.....95-102
 College of Health Sciences103-117
 College of Humanities and Social Sciences119-139
 College of Languages and Communication141-151
 College of Science, Technology, Engineering & Mathematics.....153-170
 The University Center at UA Fort Smith 171
 Course Prefix Index 174
 Course Descriptions175-298
 Boards of Trustees and Visitors, Administration, and Faculty..... 299-312
 Index..... 313-319
 Campus Map Inside Back Cover

STUDENT RESPONSIBILITY

Students enrolled at UA Fort Smith 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.uafortsmith.edu

PHONE DIRECTORY

(Area code 479 unless otherwise indicated)

UNIVERSITY SWITCHBOARD788-7000

ADMISSIONS

Admissions and School Relations
Smith-Pendergraft Campus Center 219788-7120
Toll-Free for
Admissions Information 888-512-5466

ATHLETIC EVENTS - GAMES, TICKETS, INFORMATION

Athletic Department
Stubblefield Center 148788-7590

BOOKSTORE

Smith-Pendergraft Campus Center 145788-7320

BOX OFFICE

Smith-Pendergraft Campus Center 103788-7300

CAMPUS AND COMMUNITY EVENTS

Smith-Pendergraft Campus Center 103788-7300

CAMPUS TOURS AND VISITS

Admissions and School Relations
Smith-Pendergraft Campus Center 219788-7120

CAREER SERVICES

Smith-Pendergraft Campus Center 232788-7017

CENTER FOR BUSINESS AND PROFESSIONAL DEVELOPMENT

Flanders 204788-7799

CENTER FOR LIFELONG LEARNING

Kinkead Annex 112788-7212

COMPUTER AND WEB CLASSES/ DISTANCE LEARNING SUPPORT

Technology Support (Help Desk)
Gardner 101788-7460

COUNSELING CENTER

Pendergraft Health Sciences Center 312788-7398

DEANS' OFFICES

College of Applied Science and Technology
Baldor 219788-7783

College of Business
Business and Industrial Institute 103788-7800

College of Education
Math-Science 111788-7908

College of Health Sciences
Pendergraft Health Sciences Center 112788-7840

College of Humanities and Social Sciences
Vines 101788-7430

College of Languages and Communication
Vines 225788-7290

College of Science, Technology, Engineering & Mathematics
Math-Science 114788-7610

College of Student Success
Vines 128788-7660

Enrollment Management
Smith-Pendergraft Campus Center 201788-7160

DENTAL HYGIENE CLINIC

Pendergraft Health Sciences Center 137788-7270

FEE PAYMENTS

Cashier
Smith-Pendergraft Campus Center 202788-7060

FINANCE OFFICE

Business Center 109788-7058

FINANCIAL AID, SCHOLARSHIPS, AND WORK-STUDY

Financial Aid Office
Smith-Pendergraft Campus Center 215788-7090

FITNESS CENTER

Gym 140788-7600

GORDON KELLEY ACADEMIC SUCCESS CENTER

Vines 202788-7675

HOUSING AND RESIDENTIAL LIFE

Housing Office788-7340
 The Lion's Den Residence Hall788-7348
 Sebastian Commons Apartments783-7340

INTERNATIONAL STUDENTS

Admissions and School Relations
 Smith-Pendergraft Campus Center 219788-7120

LIBRARY

Boreham Library788-7200

NEW STUDENT ORIENTATION

Admissions and School Relations
 Smith-Pendergraft Campus Center 219788-7120

OFFICE OF NON-TRADITIONAL STUDENT SUPPORT

Smith-Pendergraft Campus Center 107788-7319

POWELL STUDENT HEALTH CLINIC

Pendergraft Health Science Center 258788-7444

RECORDS OFFICE / REGISTRAR

Records Office
 Smith-Pendergraft Campus Center 222788-7230

REGISTRATION

Admissions and School Relations
 Smith-Pendergraft Campus Center 219788-7120

STUDENT ADVISEMENT AND CAREER PLANNING

Smith-Pendergraft Campus Center 232788-7400

STUDENT ACTIVITIES OFFICE

Smith-Pendergraft Campus Center 115788-7663

STUDENT ADA SERVICES

Vines 210788-7577

STUDENT ADVISEMENT AND CAREER PLANNING

Smith-Pendergraft Campus Center 219788-7400

STUDENT AFFAIRS

Smith-Pendergraft Campus Center 201A788-7310

STUDENT SUPPORT SERVICES

Boreham Library 207788-7355

TESTING (COMPASS, MAKE-UP TESTING, CLEP, ETC.)

Testing Center
 Smith-Pendergraft Campus Center 205788-7682

TRANSCRIPTS, ACADEMIC RECORDS

Records Office
 Smith-Pendergraft Campus Center 222788-7230

UNIVERSITY POLICE DEPARTMENT

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

UPWARD BOUND

Classic
 Vines 153788-7119
 Math/Science
 Vines 153788-7103

VETERANS AFFAIRS

Financial Aid Office
 Smith-Pendergraft Campus Center 215788-7138

WATC (WESTERN ARKANSAS TECHNICAL CENTER)

Baldor 111788-7720

UNIVERSITY OF ARKANSAS - FORT SMITH
5210 GRAND AVENUE
P.O. BOX 3649
FORT SMITH, AR 72913-3649
INFORMATION@UAFORTSMITH.EDU

CHARACTER OF THE UNIVERSITY

The University of Arkansas - Fort Smith Vision, Mission, Role and Scope, and Values

VISION

UA Fort Smith will be a premier regional university, connecting education with careers.

MISSION

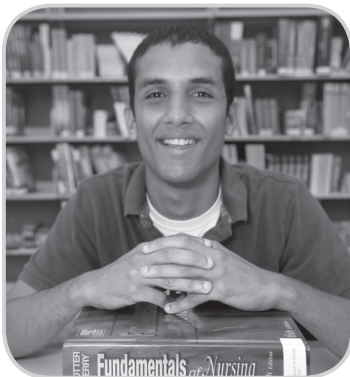
UA Fort Smith prepares students to succeed in an ever-changing global world while advancing economic development and quality of place.

ROLE AND SCOPE

Founded in 1928, UA Fort Smith has grown in stature, role, and scope over the years into a singularly distinctive, hybrid institution. Organized and focused on teaching and learning, UA Fort Smith 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 UA Fort Smith University Center.

In addition to certificate and degree programs, UA Fort Smith 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.

UA Fort Smith 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. UA Fort Smith 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 University of Arkansas - Fort Smith 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 our 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

UA Fort Smith 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

UA Fort Smith provides equal employment, admission, and educational opportunities without regard to race, color, gender, religion, age, or learning or physical disability. UA Fort Smith 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 UA Fort Smith 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. The vice chancellor for student affairs is responsible for compliance with Title IX of the Education Amendments of 1972.

DIVERSITY

UA Fort Smith 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

UA Fort Smith 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.uafortsmith.edu/Learning for further information.

GENERAL EDUCATION

UA Fort Smith'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

UA Fort Smith 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. UA Fort Smith 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. In addition, 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.uafortsmith.edu/Lifelonglearning.

THE UNIVERSITY CENTER AT UA FORT SMITH

UA Fort Smith, in partnership with other universities, offers additional baccalaureate programs through the University Center. Students may complete the freshman and sophomore courses through UA Fort Smith and the junior and senior courses from universities invited to provide specific bachelor's degrees not currently offered by UA Fort Smith. Classes are held on the UA Fort Smith 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 UA Fort Smith 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.uafortsmith.edu/Academy.

HISTORICAL DEVELOPMENT OF THE INSTITUTION

UA Fort Smith 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.

UA Fort Smith 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

UA Fort Smith 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 program, the 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 (JRCEDMS) through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The UA Fort Smith Music Department is an accredited institutional member of the National Association of Schools of Music (NASM).

ADMISSIONS

UA Fort Smith Admission Policy

The admission process at UA Fort Smith seeks to identify prospective students who will be successful in collegiate academic programs. UA Fort Smith 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 UA Fort Smith'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.
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, one dose of rubella, and one dose of mumps vaccine.

4. Official ACT or SAT student profile report or COMPASS evaluation scores. Placement scores are current for four years. 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 UA Fort Smith begin with Admissions. Additionally, Colleges may have specific admission requirements.

NEW STUDENT ORIENTATION (NSO)

All first-time entering University students (and transfer students with fewer than 30 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 or call 788-7120 or visit the Admissions and School Relations Office, upper level, Smith-Pendergraft Campus Center, to register.

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 UA Fort Smith.

The college core curriculum from high school consists of:

- 4 – Units of English with emphasis on writing skills, not to include courses in oral communication, journalism, drama, or debate.
- 3 – Units of natural science with laboratories, chosen from physical science, biology, chemistry, or physics. Only one unit may come from a life science.

- 4 – Units of math, including algebra I, algebra II, geometry, and a higher-level math course.

- 3 – 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 UA Fort Smith.

Students who have not completed the requirements for Act 1290 and who are conditionally admitted to UA Fort Smith 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, one dose of rubella, and one dose 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 UA Fort Smith 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 October 1 for spring enrollment, March 1 for fall enrollment, or Friday of the first week of each summer term. Students advised with an in-progress pre or corequisites 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 UA Fort Smith 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 UA Fort Smith 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. UA Fort Smith 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 UA Fort Smith. Transfer students academically suspended from their last institution will not be allowed to enroll at UA Fort Smith 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 UA Fort Smith in good academic standing are subject to the same minimum academic standard requirements as continuing students. Transfer students admitted to UA Fort Smith on academic probation will be evaluated at the end of their first semester of enrollment.

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 UA Fort Smith, 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, UA Fort Smith 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, UA Fort Smith 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 UA Fort Smith 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, one dose of rubella, and one dose 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 UA Fort Smith 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 UA Fort Smith 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 UA Fort Smith until they qualify under first-time entering admission requirements.

INTERNATIONAL STUDENTS

www.uafortsmith.edu/future/internationalstudents

An "international student" is one whose citizenship is in another country and is applying for an I-20 from UA Fort Smith 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:
 - * 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.
 - * 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.
 - * 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. UA Fort Smith 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 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
 - * Passing two standard English composition courses at an accredited postsecondary institution in the United States with a "C" or better; or
 - * Graduation from an accredited high school in the United States and placement on the reading and writing portion of the COMPASS/ACT exam; or
 - * 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 UA Fort Smith before enrolling in classes. When all of the admission documents have arrived in the International Student Office at UA Fort Smith 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. UA Fort Smith 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.

NONCREDIT ENROLLMENT

This category includes those students enrolling only in noncredit classes offered by the Center for Lifelong Learning.

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 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 for the first semester. Students who do not successfully complete all student success courses and SAS 0203 with a grade of "C" or better

will be required to repeat the course(s). Students must enroll in additional required student success courses each semester until they successfully complete all student success coursework with a grade of "C" or better. Returning students who are enrolled in all student success coursework and have a cumulative grade point average below a 2.00, must take SAS 0203 On Course for Success and be limited to 12 hours. If their cumulative grade point average is above a 2.00, it would be their option to take SAS 0203 and are limited to 13 hours.

UA Fort Smith 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, one dose of rubella, and one dose 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 UA Fort Smith 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 University of Arkansas - Fort Smith 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>

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

UA Fort Smith 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

The University of Arkansas - Fort Smith 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 \$75 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, reenrollment, or the sending of transcripts. Personal checks are accepted for payment of accounts, and a charge of \$20 is assessed for returned checks. Students whose tuition checks are returned by the bank are subject to administrative withdrawal.

Paying tuition and fees at UA Fort Smith 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. The tuition and fees 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:

DATE OF OFFICIAL WITHDRAWAL	FALL/SPRING SEMESTER	SUMMER TERM
Before the first day of the semester	100%	100%
During the first week of the semester	75%	50%
During the second week of the semester	50%	None
During the third week of the semester	25%	
After the third week of the semester	None	

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 federal financial aid 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, (Federal PELL, Federal SEOG, State Grant, and Federal Stafford Loan) 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, 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 UA Fort Smith); or (2) 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, Oklahoma, Missouri, Tennessee, Mississippi, Louisiana, or Texas shall be accorded in-state status. Spouses and dependants of active duty personnel shall be accorded in-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 July 1, 2010. Any and all fees may be increased or decreased and new ones established when deemed necessary.

TUITION FOR CREDIT COURSES

	Charge per Semester Credit Hour	Full Time 15 hours*
<i>In-state (Arkansas and border states - Oklahoma, Missouri, Tennessee, Mississippi, Louisiana, and Texas)</i>	\$119	\$1,785
<i>Out-of-state and international students</i>	\$318	\$4,770

**Tuition is charged per credit hour.*

FEES

	Charge per Semester Credit Hour	Full Time 15 hours
<i>Activity</i>	\$13	\$195
<i>Athletic</i>	\$13	\$195
<i>Technology</i>	\$9.40	\$141
<i>Campus Center</i>	\$2	\$30
<i>Library Fee</i>	\$3	\$45

TUITION AND FEES (CONTINUED)

OTHER FEES

<i>Student Health</i>	\$33 per semester/term
<i>Registration</i>	\$25 per semester/term
<i>Fitness Center Access</i>	\$10 per semester/term
<i>Fitness Center Course</i>	\$25 per course
<i>Nursing (BSN, ADN, and PN), imaging sciences, radiography, surgical technology, and dental hygiene</i>	\$25 per clinical course
<i>Student teacher internship</i>	\$100 per course
<i>Student teacher (out of area) internship placement</i>	\$450 per course
<i>Private music instruction</i>	\$35 per credit hour
<i>Distance education course</i>	\$33 per credit hour
<i>Child development program</i>	
<i>Two-hour course</i>	\$50 per course
<i>Four-hour course</i>	\$100 per course
<i>College of Health Sciences Assessment Fees</i>	
<i>ADN program, per ADN course</i>	\$ 75
<i>LPN program, per LPN course</i>	\$ 70
<i>BSN program per semester (starting 3rd semester)</i>	\$ 75
<i>Surgical Technology Program Assessment</i>	\$ 190
	<i>(charged in final semester of program)</i>
<i>College of Health Sciences Program</i>	\$20 per credit hour
<i>Sciences laboratory fee</i>	\$35 per lab course

TESTING

<i>ACT Residual</i>	\$30.50 per test
<i>Business Major Fields</i>	
<i>Achievement Test (MFAT)</i>	\$25 per test
<i>Challenge Exam</i>	\$20 per credit hour
<i>COMPASS retest</i>	\$25 per test battery
<i>CLEP administrative fee</i>	\$15 per test
<i>CLEP test (payable to CLEP)</i>	\$77 per test
<i>Correspondence test administration fee</i>	\$30 per test
<i>Foreign Language Test</i>	\$10 per test
<i>NLN PAX (Nursing)</i>	\$35 per test
<i>NOCTI administration fee</i>	\$15 per test
<i>NOCTI Tests</i>	\$22 per test
<i>Oral Proficiency Interview</i>	\$75 per test
<i>PSB Test</i>	\$20 per test
<i>Overnight delivery</i>	\$15 per test

TUITION AND FEES (CONTINUED)

CHARGES FOR OTHER SERVICES/FINES AS APPLICABLE	
Diploma replacement	\$20
ID replacement	\$5
Installment plan service	
1-payment plan (per semester)	\$10
2-payment plan (per semester)	\$20
3-payment plan (per semester)	\$30
4-payment plan (per semester)	\$40
Installment plan late payment	\$15
Late payment fee (per semester)	\$75
Library fines:	
General circulation volumes (per day)	\$0.10
Video and reserve room items (per day)	\$0.25
Lost item processing (+ replacement cost)	\$10
Inter-library loan:	
UA Fort Smith students (+charges from loaning library)	\$1
Public patrons (+charges from loaning library)	\$3.50
Graduation application	\$30
Placement file fees:	
Additional copies - pickup	\$1
Additional copies - mailed	\$2
Vehicle/traffic fines:	
Failure to register vehicle violation	\$5
Handicapped parking violation (per occurrence)	\$100
Moving violation (per occurrence)	\$25
Parking violation (per occurrence)	\$10
Parking registration	\$20
Returned check	\$20
<i>Tools, uniforms, and equipment may be required for certain programs on campus.</i>	

FINANCIAL AID AND SCHOLARSHIPS

Financial Aid

www.uafortsmith.edu/Finaid
(479) 788-7090

The Financial Aid office provides a comprehensive program consisting of federal grants, scholarships, loans, work study, 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 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.

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.ed.gov*. This free service is the fastest and easiest way to apply. Students can contact their high school guidance counselor or UA Fort Smith's Financial Aid Office for additional information about completing the application. Once UA Fort Smith 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 UA Fort Smith, 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 some scholarships and state grants. Students must also demonstrate Satisfactory Academic Progress to receive financial assistance. UA Fort Smith's Satisfactory Academic Progress 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 UA Fort Smith 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

UA Fort Smith 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 you are in school at least half-time, during your grace period or during deferment periods. To receive a Direct Subsidized Loan, you must have financial need. UA Fort Smith will determine if you are eligible for a direct Subsidized Loan based on your FAFSA.

Direct Unsubsidized Loans: interest is charged during all periods, including while you are in school and during grace and deferment periods

Direct PLUS Loans: unsubsidized loans for parents of dependent students. Plus loans help pay for education 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 UA Fort Smith 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 UA Fort Smith 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/ling

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 UA Fort Smith.

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 Hours attempted

0-15 hours	1.50
16-29 hours	1.75
30+ hours	2.00
2. Percentage of attempted hours to be completed each academic year and overall is 67%.
3. Maximum attempted hours allowed from all institutions for earning a degree or certificate.

186 hours - First bachelor's degree
240 hours - Second bachelor's degree (eligible for limited 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 Fall and Spring terms to remain eligible for financial aid. For students on financial aid warning or probation, progress is checked at the end of each term of attendance.

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.

Financial Aid Suspension

A student who has failed to make satisfactory academic progress while on financial aid warning is placed on financial aid suspension. 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 financial aid probation and may continue to receive financial aid. A student will also be placed on financial aid suspension if they receive all "F" grades and/or withdraw from all courses in a semester. 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. Satisfactory academic progress appeal forms are available in the Financial Aid Office or can be printed from the UA Fort Smith website at www.uafortsmith.edu/Finaid/FinancialAidForms.

STUDENT EMPLOYMENT

Numerous on-campus jobs are available to students attending UA Fort Smith and are coordinated through the UA Fort Smith 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 UA Fort Smith 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 UA Fort Smith, 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 UA Fort Smith. Go to www.fafsa.gov to make a correction and add "001110," the school code of UA Fort Smith. 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 and state programs.

HOPE AND LIFETIME LEARNING CREDITS

Paying tuition and fees at UA Fort Smith may qualify students or their parents for the Hope or Lifetime Learning credits which are tax credits against federal taxes owed. Hope Tax Credits are available against federal income taxes for qualified tuition and related expenses paid for a student's first two years of postsecondary education up to a maximum credit of \$1,800 per year. The amount of the credit is 100 percent of the first \$1,200 of qualified tuition and 50 percent of the next \$1,200. It does not apply to room-and-board expenses or cost of books. For educational expenses not eligible for the Hope Tax Credit, the Lifetime Learning Credit may be available. Both credits may be reduced or eliminated based on the income of the student or parents.

The Taxpayer Relief Act of 1997 requires the University to provide information concerning student enrollment to the Internal Revenue Service and to the student. The University encourages all students to read the material that has been forwarded to them by the University regarding the Taxpayer Relief Act and consult with a tax advisor as to how these benefits might apply to the student and/or his or her family.

FINANCIAL AID FOR NATIONAL GUARD MEMBERS

UA Fort Smith 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, UA Fort Smith 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, Upper Level, Smith-Pendergraft Campus Center. 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, upper level, Smith-Pendergraft Campus Center. Complete information about VA requirements and procedures will be provided upon request.

Scholarships

UA Fort Smith'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 both University and Foundation 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 an application. The application for these scholarships is available in September. Scholarships for transfer, current, and other potential students are also available. Information on all UA Fort Smith scholarships, including deadlines is available at <http://scholarships.uafortsmith.edu>.

UA Fort Smith scholarships are awarded in varying amounts and are based on distinct 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 the upper level 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 students 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 UA Fort Smith Foundation scholarships are offered through the generosity of community donors and friends of the University. First-time entering freshmen are automatically considered for all University and Foundation scholarships without an application. Current students who are sophomores or higher will be considered for both the University and Foundation Scholarships by completing a scholarship application.

UA Fort Smith 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

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.edbe.edu and complete the "YOUiversal" application. All students must complete the FAFSA to be considered for these programs.

CAMPUS LIFE AND SERVICES

Student Life

UA Fort Smith 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 UA Fort Smith classrooms. Student Life 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.uafortsmith.edu/Future/AdultStudents
(479) 788-7319

The Office of Non-traditional Student Support is located in the Smith-Pendergraft Campus Center, room 107. The mission of the office is to encourage continued learning and assist students in their personal, educational, and career success. Non-traditional Student Support provides a success-oriented environment for students from diverse backgrounds to meet the challenges of work, school, and family life. Many services address the needs of adult students who are returning to college to complete their degree, as well as those who did not attend college and now have the opportunity to do so. The Office of Non-traditional Student Support is available to facilitate the transition into the University and to provide support for academic success.

Student Programs

ATHLETICS

www.uafortsmith.edu/Athletics
(479) 788-7590

UA Fort Smith 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.

UA Fort Smith 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, UA Fort Smith 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 UA Fort Smith 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 UA Fort Smith athletics. University students are admitted free to all athletic events by presenting a current UA Fort Smith 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.uafortsmith.edu/Cubcamp
(479) 788-7695

Cub Camp is an intense, overnight experience designed to prepare first-time, full-time UA Fort Smith 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.uafortsmith.edu/Life/GreekLife
(479) 788-7694

The mission of the University of Arkansas – Fort Smith 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 the University of Arkansas – Fort Smith Greek Life at UA Fort Smith 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 UA Fort Smith:

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

UA Fort Smith Panhellenic Council (PC): The governing body over the Greek organizations for women

UA Fort Smith 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

INTRAMURAL SPORTS

www.uafortsmith.edu/Life/IntramuralSports

Intramural sports complement the program of intercollegiate athletics. Students with a 2.00 cumulative 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.

MUSIC

The Department of Music offers performance opportunities and music study. Performing ensembles include Chorale, Women's Chorus, Symphonic Band, Jazz Band, Athletic Band, Brass Ensemble, Woodwinds Ensemble, Percussion Ensemble, and UA Fort Smith Vocal Jazz.

ORGANIZATIONS

www.uafortsmith.edu/Life/StudentOrganizations

Student organizations are a vital piece of the collegiate experience provided at UA Fort Smith. 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. UA Fort Smith offers more than 60 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. The following is a list of organizations on the UA Fort Smith campus:

ACADEMIC

American Society of Mechanical Engineers
Biology Club
Chemistry Club
College of Business Society of Students
Collegiate Middle Level Association
Future Educators Association
Math Club
Phi Beta Lambda
Radiography Students Association
SkillsUSA
Student American Dental Hygienist Association
Student Nurses Association
Students Pre-Medical Association
Surgical Technology Students Association

ARTS

Applause
Drama Club
Kappa Kappa Psi

CULTURE

Cultural Network

Gay Straight Alliance
German Club
Hmong Student Association
Japan Club
Native American Student Organization
Student Together Effectively Progressing
Vietnamese Students Association

FRATERNITY AND SORORITY LIFE

Delta Gamma
Delta Sigma Theta
Gamma Eta
Gamma Phi Beta
Interfraternal Council
Kappa Alpha Order
Kappa Sigma

PANHELLENIC COUNCIL

Pi Kappa Phi
Sigma Nu

HONOR SOCIETY

Alpha Lambda Delta
Alpha Sigma Lambda
Kappa Delta Pi
Lambda Nu
Sigma Beta Delta
Sigma Delta Pi
Sigma Tau Delta
Tri-Beta

POLITICAL

College Democrats
College Republicans

RELIGIOUS

Baptist Collegiate Ministries
Catholic Campus Ministries
Chi Alpha
Christ on Campus
Fellowship of Christian Athletes
Lions for Christ
Missionary Baptist Student Foundation
The Bridge College Ministry

SPECIAL INTEREST

CircleK
Computer Club
Lion Rifles
Lions for Life
Sebastian Commons Organization for Protecting the Environment (SCOPE)
Student Animators
Table Tennis Federation
Transfer Student Organization

UNIVERSITY OUTREACH

Campus Activities Board
Chancellor's Leadership Council
Cub Camp
Lions ROAR
Non-traditional Students
Student Alumni Association
Student Athletic Advisory Committee
Student Government Association
University Student Ambassadors

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association (SGA), including the senate, serves as the elected representative body of the students at UA Fort Smith. The Senate 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

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

Students may pick up tickets two weeks before the event. The Box Office is located on the lower level, Smith-Pendergraft Campus Center.

STUDENT ACTIVITIES

www.uafortsmith.edu/Life/Index
(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 UA Fort Smith 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 UA Fort Smith 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 UA Fort Smith supports the mission of the University by enabling students to maximize their educational experience through

counseling and psychotherapy.

The clinic is open from 8:00 a.m. until 5:00 p.m. Monday through Thursday and from 10 a.m. until 2 p.m. on Friday and is located on the third floor of the Pendergraft Health Sciences Center.

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 UA Fort Smith 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 8 a.m. to noon, and 1 to 5 p.m. Monday and Wednesday, 8 a.m. until noon Tuesday and Friday, and 1 to 5 p.m. on Thursday. 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

UA Fort Smith 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 lower level of the Smith-Pendergraft Campus Center, and is open

Monday - Friday

7:30 a.m. - 3 p.m.

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

Monday-Friday

Breakfast 7:30 a.m. - 9:00 a.m.
Lunch 11:00 a.m. - 1:30 p.m.
Dinner 5:00 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.

FITNESS CENTER

The UA Fort Smith 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 UA Fort Smith classes are admitted to the fitness center by presenting a valid Lions ID card.

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 UA Fort Smith and Westark Church of Christ. Students and staff are prohibited from parking in the reserved lot on the east side of the church.

HANDICAPPED PARKING

All students, faculty, and staff who have a state-issued handicapped parking permit are allowed to utilize handicapped 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. UA Fort Smith ID card
4. License plate number on car

HOUSING AND RESIDENTIAL LIFE

<http://www.uafortsmith.edu/Housing/Index>

The Office of Housing and Residential Life is committed to creating a residential community that supports a vibrant learning and living experience at UA Fort Smith. The Residential Life staff works with students to build community that fosters learning both in and out of the classroom. One of the most important roles of the staff is to serve as a guide for

students as they navigate the transitions and challenges they face in college.

Out-of-class programming efforts help ensure that students feel connected to the UA Fort Smith Community. Residents will have the opportunity to participate in a wide variety of programs on social, cultural, intellectual and health and wellness related topics. Contact the director of housing and residential life at (479) 788 -7340 for additional information.

National research has shown that residing in an on-campus residence environment is linked to academic success in the first year and beyond. 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 UA Fort Smith students, with one-, two-, and four-bedroom floor plans. Amenities include all basic utilities being paid, full kitchen, individual rooms, queen sized beds, gated parking, sand volleyball and basketball courts on site.

THE 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 living and learning communities focused on sustainability and civic engagement. 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, loftable 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

UA Fort Smith 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. Responding campus police officer(s) will determine whether additional agencies are needed or may be cancelled.

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

To promote campus safety and effective communication, UA Fort Smith offers students LionsAlert. LionsAlert is a voluntary text messaging and email subscription service that allows students to sign up to receive timely electronic message announcements of campus closings because of inclement weather and notifications of campus emergencies.

LionsAlert messages can be received on any device that has an email address including desktop and laptop computers, cellular phones, pagers, and personal digital assistants (PDAs). Additionally, LionsAlert provides text-to-voice messaging capability to one registered phone number to accommodate visually impaired students and those without a text capable cellular phone. The signup interface for LionsAlert may be accessed via the UA Fort Smith home page, www.uafortsmith.edu.

Student Conduct

UA FORT SMITH 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.

UA FORT SMITH DRUG POLICY

Possession, use, or manufacture of illicit drugs is strictly prohibited at the University of Arkansas - Fort Smith. Students at UA Fort Smith 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

UA Fort Smith 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.

UA Fort Smith 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 UA Fort Smith.
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 was under revision at the time this Catalog was being printed. Please visit www.uafortsmith.edu/attach/Life/Index/CodeofConduct.pdf for the most current version of the Code. If you have any questions, please call 479-788-7334. Our 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 UA Fort Smith 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 is prohibited on the grounds of UA Fort Smith 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.

ACADEMIC SUPPORT SERVICES

Student Advisement and Career Planning

www.uafortsmith.edu/Advising
(479) 788-7400

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, walk-in visits, and email. Except for designated holidays, the hours for Student Advisement and Career Planning are 8 a.m. to 6 p.m., Monday through Thursday, and 9 a.m. to 5 p.m. on Friday. Student Advisement and Career Planning is located on the upper level of the Smith-Pendergraft Campus Center.

Students are required to meet with their assigned faculty advisor or professional advisor prior to their registration date(s). Students may view their faculty or professional advisor's name in LionsLink.

Career Services Office

www.uafortsmith.edu/careerservices
(479) 788 -7017

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 UA Fort Smith 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 the upper level in 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

UA Fort Smith's concern 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 UA Fort Smith 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 UA Fort Smith 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.uafortsmith.edu/studentssupportservices
(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 UA Fort Smith. 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 UA Fort Smith with a baccalaureate degree. The SSS office is located in Boreham Library room 207.

Records Office

www.uafortsmith.edu/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 in the Smith-Pendergraft Campus Center, upper level. Students can visit the Records Office or request 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

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, by fax, or by mail. There is no charge for transcripts.

LIONS ID CARD

www.uafortsmith.edu/Lionsidcard

The Lions ID card is the official identification card of UA Fort Smith. It is issued to staff, faculty, currently enrolled UA Fort Smith 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 the University of Arkansas - Fort Smith 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 UA Fort Smith. 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 UA Fort

Smith 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 UA Fort Smith. Students register for the AERO and MILS ROTC courses with UA Fort Smith Student Advisement and Career Planning.

Testing Center

www.uafortsmith.edu/Future/TestingCenter
(479) 788-7682

Located in the Smith-Pendergraft Campus Center, room 205, 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 UA Fort Smith 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. The PRAXIS, NLN PAX, 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.

Testing Center Hours

Mon.-Thurs. 8 a.m. - 6 p.m.
Friday 8 a.m. - 5 p.m.

Upward Bound

www.uafortsmith.edu/UB
(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.uafortsmith.edu/library>
(479) 788-7200

Boreham Library at the University of Fort Smith continues a long tradition of excellent service to the University campus. 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 online on and off-campus, and maintains database licenses for over 88 electronic databases such as Lexis Nexis, BioOne, and the World Catalog. Databases cover many subject areas and provide full-text for over 24,000 journals. Additional electronic resources include a collection of over 21,000 electronic books. At workstations provided in the library or by using wireless service for their personal laptops, students can do research, use the internet, and access the library online catalog.

The library also maintains other 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.

	Fall/Spring	Summer
Mon.–Thurs.	7 a.m. – 10 p.m.	7 a.m. – 10 p.m.
Friday	7 a.m. – 5 p.m.	7 a.m. – 5 p.m.
Saturday	10 a.m – 4 p.m.	CLOSED
Sunday	2 p.m. – 10 p.m.	2 p.m. – 10 p.m.

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

Any University of Arkansas - Fort Smith 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 ID also entitles the holder to apply for an ArkLink Statewide Library Card. This card permits reciprocal borrowing privileges at any other ArkLink participating library.

UA Fort Smith Lions Bookstore

Located in the Smith-Pendergraft Campus Center, the UA Fort Smith Lions Bookstore stocks the required textbooks for all classes offered on the UA Fort Smith 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.

	Fall/Spring	Summer
Mon.–Thurs.	7:30 a.m. – 6 p.m.	7:30 a.m. – 5 p.m.
Friday	7:30 a.m. – 5 p.m.	7:20 a.m. – 12 p.m.

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 UA Fort Smith Lions Bookstore website at <http://uafortsmith.bncollege.com>.

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

Student ADA Services

www.uafortsmith.edu/ADA
(479) 788-7577

UA Fort Smith seeks to make every effort to offer equal educational opportunities for all students. To ensure a total university experience for students with disabilities, UA Fort Smith 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.

UA Fort Smith 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 University 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 the University 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.

The University discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

Upon request, the University 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 UA Fort Smith 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 UA Fort Smith not release directory information by completing the proper form and submitting it to the Records Office, upper level, Smith-Pendergraft Campus Center. Directory Information at UA Fort Smith 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 University 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).

UA Fort Smith is required to comply with military requests for student information, in accordance with the Solomon Amendment to the National Defense Authorization Act, 1995/1996, and the Omnibus Consolidated Appropriations Act, 1997.

ACADEMIC INFORMATION

UA Fort Smith's Expectation of Students

UA Fort Smith is a learning community committed to academic excellence and to fostering a learning climate that encourages full development of its students. UA Fort Smith 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

UA Fort Smith 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. UA Fort Smith 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 UA Fort Smith officials (including faculty) and students. All students are expected to check their LionsLink account frequently to stay current with UA Fort Smith 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 online to www.uafortsmith.edu/online/classchedules and select "Registration Calendar."

All first-time college students and transfer students with fewer than 12 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. During each registration period, students should consult with a professional advisor or faculty advisor 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 UA Fort Smith 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 or program directors/department chairs.

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.

UA Fort Smith 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 UA Fort Smith 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 UA Fort Smith may be obtained from the Records Office in accordance with federal guidelines:

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. 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 UA Fort Smith, 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 UA Fort Smith 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

UA Fort Smith, 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 UA Fort Smith 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 UA Fort Smith. CLEP and AP credit granted by any other accredited institution and posted on an official transcript will transfer to UA Fort Smith. 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).**

UA Fort Smith 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.

UA Fort Smith will grant credit for the AP program based on the following placement scores:

UA FORT SMITH COURSE	MINIMUM AP SCORE
American History I or II (HIST 2753 or HIST 2763)	3
American History I and II (HIST 2753 and HIST 2763)	4
American National Government (POLS 2753)	3
Beginning French I and II (FREN 1304 & FREN 1314)	3
Beginning German I and II (GERM 1304 & GERM 1314)	3
Beginning Spanish I and II (SPAN 1304 and SPAN 1314)	3
Calculus I (MATH 2804)	3

Calculus AB	
Calculus I and II (MATH 2804, 2854).....	3
Calculus BC	
College Chemistry I and II (CHEM 1403/1401 and 1413/1411).....	4
College Physics I (PHYS 2803/2811).....	3*
College Physics I and II (PHYS 2803/2811 and 2823/2831)	4
Freshman English I (ENGL 1203)	
English Literature and Composition or English Language and Composition	3
Freshman English I and II (ENGL 1203/1213)	
English Literature and Composition or English Language and Composition	4
or both English Literature and Composition and English Language and Composition	3
Additional English general education credit English Literature and Composition and/or English Language and Composition	5**
Biological Science I (BIOL 1153/1151)	4
General Psychology (PSYC 1163)	3
Music Appreciation (MUSI 2763).....	3
Music Theory I (MUSI 1223)	4
Statistics (STAT 2503).....	3

**Must enroll and complete the next course in the sequence with a "C" or better to receive credit.*

***Student may submit a writing sample to the chair of the English department. Upon evaluation, 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 UA Fort Smith. 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 cost information. Exam cost is \$77 each, with payment by credit card or check made payable to CLEP. There is a \$15 administrative fee payable by check or credit card to UA Fort Smith. Credit is offered in the following CLEP subjects:

COMPOSITION AND LITERATURE	SCORE	HRS.
College Composition Modular*	55/66	3/6
American Literature	58/68	3/6
English Literature	57	3
French Language	56/59	8/11
German Language	55/60	8/11
Spanish Language	56/63	8/11

MATHEMATICS AND SCIENCES	SCORE	HRS.
College Algebra	52	3
Calculus	60	4
Biology	50	4
Chemistry	55	8
Precalculus	60	5

SOCIAL SCIENCES AND HISTORY	SCORE	HRS.
American Government	50	3
U.S. History I	50	3
U.S. History II	50	3
Human Growth and Development	50	3
Introductory Psychology	55	3
Introductory Sociology	59	3

BUSINESS	SCORE	HRS.
Financial Accounting	54	3
Introductory Business Law	52	3
Macroeconomics	54	3
Microeconomics	54	3

** Essay Required. All students taking the Freshman College Composition test for credit at UA Fort Smith 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 UA Fort Smith. 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, UA Fort Smith 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.

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. The student will be enrolled in the course if space becomes available. Holds on the student's account may prevent enrollment. The student must verify enrollment in the course by checking LionsLink. If the student no longer wishes to be enrolled or waitlisted in the course, the student must officially withdraw from the course prior to the start of the term for a full refund.

A student may not register for one section of a course and be placed on a waitlist for another section, nor may a student be waitlisted for multiple sections of the same course.

Auditing Courses

Students who audit courses must be officially admitted to the University and pay the regular fee 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 UA Fort Smith 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 UA Fort Smith 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 Transfer Credit 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. After the official reporting day:
 - a) Students are required to obtain both the faculty member's and advisor's signatures 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 Participation In 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 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 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 "Suspension" on page 53.)

For repeated UA Fort Smith 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.

Academic Honesty

UA Fort Smith 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 UA Fort Smith 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 Student Advisement. 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 UA Fort Smith 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

UA Fort Smith uses the following system of grading:

A	Excellent	4 quality points
B	Good	3 quality points
C	Average	2 quality points
D	Passing	1 quality point
AU	Audited	0 quality points
W	Withdrew	0 quality points
IP	In-progress	0 quality points
F	Failing	0 quality points
FX	Failing-Dishonesty	0 quality points
CR	Credit	0 quality points

AU, IP, CR, and W are disregarded in calculating grade point averages except for certain financial aid purposes; 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

Overall GPA: GPA for all coursework completed at UA Fort Smith

Term GPA: GPA for all coursework for 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 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 PROGRESS

A student must maintain a cumulative GPA (Grade Point Average) of 2.00 to maintain satisfactory progress. Students 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 WARNING

Students will be placed on academic warning the first time the cumulative GPA falls below 2.00, at the close of the fall, spring or combined summer terms. Students will remain on warning as long as their 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 warning will not be allowed to take full online or hybrid courses, and may have limitations on their enrollment. Students will be considered in good standing when their cumulative GPA is 2.00 or higher.

ACADEMIC PROBATION

Students will be placed on academic probation if, while on academic warning, 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. 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 and register. Students on probation will not be allowed to take full online or hybrid courses and may not web register. A student in good standing who has previously been on academic warning and whose cumulative GPA at the close of the fall, spring, or combined summer terms is less than the minimum standards (2.00) will be moved to probation.

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 or in the following summer term for a maximum of 4 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 not allowed to take any full online or hybrid courses, 8-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. UA Fort Smith 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 UA Fort Smith and may not be accepted at another institution.

Academic clemency does not affect eligibility for athletic participation. VA students should contact the UA Fort Smith 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 UA Fort Smith 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 and Administration 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.

GRADUATION REQUIREMENTS

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 7 years old at the time of graduation. If a student does not complete graduation requirements within the 7 year period, he/she will be required to meet the graduation requirements of the current catalog.

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 bachelor's degree from UA Fort Smith, students must satisfy the following requirements:

- Complete a minimum of 124 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 grade point average on all work attempted at the University and a minimum 2.00 cumulative grade point average 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 bachelor's 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 UA Fort Smith, 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 grade point average on all work attempted at the University. For the associate of applied science, students must maintain a 2.00 grade point average in the specific major as indicated on individual degree plans and a 2.00 grade point average overall.
 - 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.
 - 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.
 - 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 UA Fort Smith, 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.

- 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 UA Fort Smith 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 bachelor's 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 UA Fort Smith, students must satisfy the following requirements:

- A minimum of a 2.00 cumulative grade point average 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 UA Fort Smith, students must satisfy the following requirements:

- A minimum of a 2.00 cumulative grade point average 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 1 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 BACHELOR'S DEGREE

Students may earn a double major by completing degree requirements in two different fields within a single degree, either a Bachelor of Arts (BA) or Bachelor of Science (BS). 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 degrees. The student must deliver the declaration of 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 sequentially. The student must apply to graduate upon completion of both majors. No degree will be awarded until the requirements for both majors are completed. Students must follow catalog requirements of each major in place at the time each major is declared.

EARNING TWO BACHELOR'S DEGREES CONCURRENTLY

Students wishing to complete courses in both the BA and BS degree areas are strongly encouraged to declare one degree as a major, the other degree as a minor and complete all required electives. Students who wish to earn two bachelor's degrees (BA and BS) concurrently

may do so by completing degree requirements for both areas. Twelve 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 BACHELOR'S DEGREE

Students who have previously completed a bachelor's degree may earn an additional bachelor's degree at UA Fort Smith by meeting the following criteria:

- a) Whether the first degree is awarded at UA Fort Smith 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.
- b) 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 UA Fort Smith. 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.
- c) 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 bachelor's degrees are not 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 bachelor's 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 bachelor's 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 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 bachelor's degree and pursue a second undergraduate degree at UA Fort Smith 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

UA Fort Smith 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 bachelor's 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 bachelor's degrees:

Accounting	History
Biology	Marketing
Business Administration	Mathematics
Chemistry	Mass Communication
Criminal Justice	Music
Early Childhood Education	Nursing
English	Psychology
English w/ Teacher Licensure	Rhetoric and Writing
Graphic Design	Studio Art
History w/ Social Studies	Theatre
Teacher Licensure	
Information Technology- Database Management	
Information Technology- Networking	
Information Technology- Programming	
Information Technology-Web Developer	

University of Arkansas - Fort Smith Alumni Association

The University of Arkansas – Fort Smith Alumni Association is an ever-growing network of more than 48,000 graduates living in all 50 states and several foreign countries. The Association serves to maintain the life-long relationship with the University and make the most of the network. The Association also provides the tools for alumni to stay in touch with friends and faculty, work to facilitate professional contacts, and offer a variety of valuable programs and publications. Current students may be involved by joining the Student Alumni Association (SAA). The SAA is a direct link to campus traditions, campus fun, and special member only benefits.

Degree Requirements

UA Fort Smith requires 44 hours of general education courses for a baccalaureate degree. In compliance with the Arkansas Act 98 of 1989, UA Fort Smith has adopted the “State Minimum Core” of 35 hours plus an additional nine hours of general education bachelor’s 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	1203/1213	Freshman English I/II
ENGL	1233	Honors Composition and
RHET	2863	Advanced Composition

Speech – 3 hours

SPCH	1203	Introduction to Speech Communication
------	------	---

Mathematics (select one course) – 3 hours

MATH	1303/1403	College Math/College Algebra or MATH with College Algebra as 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	1314	Organic Physiological Chemistry
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	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	2863/2873	Survey of Art History I/II
HUMN	2563	Humanities Through the Arts
MUSI	2763	Music Appreciation

Humanities (select one course) – 3 hours

ENGL	2783/2793	American Literature to 1865/1865 to present
ENGL	2803/2813	World Literature 1750/1750 to present
PHIL	2753	Introduction to Philosophy

History/Government (select one course) – 3 hours

HIST	2753/2763	US History I/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/
	2813	Microeconomics
GEOG	2753	World Regional Geography
HIST	1123/1133	Civilizations of the World to
		1500/since 1500
HIST	2753/2763	US History I/II (if not used
		above)
POLS	2753	American National
		Government (if not used above)
PSYC	1163	General Psychology
SOCI	2753	Introduction to Sociology

Additional General Education**Bachelor Core by Colleges – 9 hours**

See individual College major requirements.

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.

ACADEMIC PROGRAMS

UA Fort Smith provides quality education to meet the variety of educational needs of individuals within its communities. UA Fort Smith provides bachelor's and associate degrees in academic, career, and occupational programs. UA Fort Smith 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 baccalaureate degree 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

UA Fort Smith'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 UA Fort Smith 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 UA FORT SMITH

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 UA FORT SMITH

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.

COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY



College of Applied Science
& 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, 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.

Majors and Degrees Offered

The programs of the College of Applied Science and Technology consist of the following majors.

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
- 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 UA Fort Smith'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:

Hours	*Notes
6 English composition	1
3 Speech	1
3 Mathematics	1
8 Science	1
3 Fine Arts	1
3 Humanities	1
3 History/Government	1
6 Social Sciences	1
45 Career Block	4
<hr/>	
80 Total Hours	

REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF APPLIED SCIENCE DEGREE PROGRAM

Junior Year Fall Semester – 12 Hours				*Notes
Hours				
3	PRFS	3133	Policies and Ethics in the Workplace	2
3	PRFS	3143	Economic Analysis in the Workplace	2
6	Upper-level general education elective			3

Junior Year Spring Semester – 13 Hours				*Notes
Hours				
3	PRFS	3533	Workplace and Environmental Safety	2
3	PRFS	3833	Diversity in the Workplace	2
4	Upper-level technical elective			2 & 3
3	Upper-level general education elective			3

Senior Year Fall Semester – 10 Hours				*Notes
Hours				
3	PRFS	4033	Consensus Building and Continuous Improvement	2
3	PRFS	4433	Supervisory Total Quality Management	2
4	Upper-level technical elective			2 & 3

Senior Year Spring Semester – 10 Hours				*Notes
Hours				
3	PRFS	4133	Project Management	2
3	PRFS	4633	Decision Making in Organizations	2
4	Upper-level technical elective			2 & 3

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 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, 45 hours: Approved AAS or AAT degree from an accredited institution with 45 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 course work in computer aided drafting and design (CADD).

Students must complete an application to UA Fort Smith 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 UA Fort Smith, including submission of official transcripts from any college(s) previously attended to the UA Fort Smith 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

Hours	*Notes
6 English Composition	1
3 Speech	1
3 Mathematics	1
8 Lab Science	1
3 Fine Arts	1
3 Humanities	1

3 History/Government	1
6 Social Science	1
44 Career Block	4

79 Total Hours

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

Junior Year Fall Semester – 13 Hours

Hours	*Notes
4 BSAT 3084 3D Advanced Concepts	2
3 BSAT 3033 Motion for Applied Animation	2
6 Upper-level general education elective	3

Junior Year Spring Semester – 11 Hours

Hours	*Notes
3 BSAT 3043 Lighting and Rendering	2
5 Upper-level BSAT electives	2 & 3
3 Upper-level general education elective	3

Senior Year Fall Semester – 11 Hours

Hours	*Notes
3 BSAT 3023 Digital Production Techniques	2
8 Upper-level BSAT electives	2 & 3

Senior Year Spring Semester – 10 Hours

Hours	*Notes
4 BSAT 4044 Senior Capstone Project	2
6 Upper-level BSAT electives	2 & 3

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:

Hours	*Notes
6 English composition	1
3 Speech	1
3 Mathematics	1
8 Science	1
3 Fine Arts	1
3 Humanities	1
6 History/Government	1
9 Social Sciences	1
3 Computer Literacy	3
35 Lower-level Electives	4
<hr/>	
79 Total Hours	

REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF SCIENCE ORGANIZATIONAL LEADERSHIP PROGRAM

Fall Semester – 9 hours

Hours		*Notes
3 LEAD 3603	Foundations of Organizational Leadership	2
3	Communication requirement	2 & 5
3	Additional degree requirement	2 & 6

Spring Semester – 9 hours

Hours		
3 LEAD 3623	Professional Communication	2
3	History/Government requirement	2 & 5
3	Additional degree requirement	2 & 6

Summer Semester – 9 hours

Hours		
3	Social Sciences requirement	2 & 5
3	Additional degree requirement	2 & 6
3	Additional degree requirement	2 & 6

Fall Semester – 9 hours

Hours		
3 LEAD 4603	Leadership with Integrity	2
3 LEAD 4623	Transformational Leadership and Innovation	2
3	Additional degree requirement	2 & 6

Spring Semester – 9 hours

Hours		
3 LEAD 4693	Dimensions of Organizational Leadership – Capstone	2
3	Professional Studies requirement	2 & 5
3	Additional degree requirement	2 & 6

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

UA Fort Smith'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 UA Fort Smith. 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 UA Fort Smith 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

UA Fort Smith's administrative professional and office technology program is designed for those who are interested in preparing for new roles and expanded responsibilities in the office. The curriculum in the administrative professional and office technology program emphasizes high standards of proficiency in communication, technology, and information management. The 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

First Semester – 15 hours

Hours			*Notes
3	APRO 1303	Workplace Computations	2
3	APRO 1103	Computer Input Technology	2
3	APRO 1113	Career Management	2
3	English composition requirement		1
3	Selected option plan course(s)		2 & 3

Second Semester – 15 hours

Hours			*Notes
3	APRO 1203	Administrative Office Procedures	2
3	APRO 1603	Electronic Bookkeeping I	2
3	ITA 1003	Computer Applications for the Knowledge Worker	2
3	English composition requirement		1
3	Selected option plan course(s)		2 & 3

Third Semester – 15 hours

Hours			*Notes
3	APRO 1703	Electronic Office Applications	2
3	APRO 2343	Professional and Office Communication	2
3	MATH 1303	College Mathematics or	
	1403	College Algebra	
3	SPCH 1203	Introduction to Speech Communication	
3/4	Selected option plan course		2 & 3

Fourth Semester – 16 hours

Hours			*Notes
3	APRO	2863 Academic Internship	2
3	APRO	2923 Integrated Office Procedures Project	2
3	APRO	2983 Emerging Office Technology	2
4	PHSC	2713/2711 Physical Science/Lab	
3	SOCI	2753 Introduction to Sociology	

61/62 Total Hours

*Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence.
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 options:

Accounting Assistant 10 hours

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

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

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

OFFICE ASSISTANT TECHNICAL CERTIFICATE

First Semester – 15 hours

Hours			*Notes
3	APRO	1303 Workplace Computations	
3	ENGL	1203 Freshman English I	
3	APRO	1103 Computer Input Technologies	
3	APRO	1113 Career Management	
3		Selected option plan course	1

Second Semester – 15 hours

Hours			*Notes
3	APRO	1603 Electronic Bookkeeping I	
3	ITA	1003 Computer Applications for the Knowledge Worker	
3	ENGL	1213 Freshman English II	
3	APRO	1203 Administrative Office Procedures	
3		Selected option plan course	1

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

Hours			*Notes
3	APRO	1303 Workplace Computations	
3	ENGL	1203 Freshman English I	
3	APRO	1103 Computer Input Technologies	
3	APRO	1113 Career Management	
3		Selected option plan course	1

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

First Semester – 14 hours

Hours			*Notes
4	ATDI 1234	Theory and Maintenance	2
4	ATDI 1334	Braking Systems	2
3	MATH 1303	College Mathematics or higher MATH	
3	Computer requirement		3

Second Semester – 14 hours

Hours			*Notes
4	ATDI 1354	Suspension and Steering	2
4	ATDI 1434	Electrical Systems	2
3	English composition requirement		1
3	SPCH 1203	Introduction to Speech Communication	

Summer Semester – 7 hours

Hours			*Notes
4	ATDI 1584	Heating and Air Conditioning Systems	2
3	English composition requirement		1

Third Semester – 15 hours

Hours			*Notes
4	ATDI 2434	Electrical Systems II	2
4	AUTO 1284	Automotive Engines	2
4	AUTO 1484	Emission Control Systems	2
3	Social sciences requirement		1

Fourth Semester – 12 hours

Hours			*Notes
4	ATDI 2484	Emission Control Systems II	2
4	AUTO 1384	Intro. to Manual Transmissions and Drivetrains	2
4	Lab science requirement		4

62 Total Hours

*Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence and one social 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 any science lecture/lab with PHSC or PHYS prefix.

AUTOMOTIVE TECHNOLOGY TECHNICAL CERTIFICATE

First Semester – 16 hours

Hours			*Notes
4	ATDI 1234	Theory and Maintenance	
4	ATDI 1334	Braking Systems	
4	ATDI 1434	Electrical Systems I	
4	ATDI or AUTO elective		1

Second Semester – 16 hours

Hours			*Notes
4	ATDI 1354	Suspension and Steering	
4	AUTO 1484	Emission Control Systems I	
8	ATDI or AUTO electives		1

32 Total Hours

*Note:

1. Select from ATDI or AUTO courses in consultation with advisor.

AUTOMOTIVE DRIVEABILITY SPECIALIST CERTIFICATE OF PROFICIENCY

Hours		
4	ATDI 1234	Theory and Maintenance
4	ATDI 1434	Electrical Systems I
4	ATDI 1584	Heating and Air Conditioning Systems
4	AUTO 1484	Emission Control Systems

16 Total Hours

AUTOMOTIVE DRIVETRAIN SPECIALIST CERTIFICATE OF PROFICIENCY

Hours		
4	ATDI 1234	Theory and Maintenance
4	ATDI 1434	Electrical Systems I

4	AUTO 1284	Automotive Engines
4	AUTO 1384	Introduction to Manual Transmissions and Drivetrains

16 Total Hours

AUTOMOTIVE UNDERCAR SPECIALIST CERTIFICATE OF PROFICIENCY

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

First Semester – 16 hours

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

Hours

4	ATDI 1354	Suspension and Steering
4	ATDI 1584	Heating and Air Conditioning Systems
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 chair 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

First Semester – 15 hours

Hours			*Notes
1	CADD 1001	CAD Concepts and Applications	2
4	CADD 1234	Engineering Graphics I	2
4	CADD 2744	CAD-2D Design Level I	2
3	MATH 1403	College Algebra	
3	English composition requirement		1

Second Semester – 14 hours

Hours			*Notes
4	CADD 1284	Engineering Graphics II	2
4	CADD 2764	CAD-2D Design Level II	2
3	MATH 1453	Plane Trigonometry	
3	SPCH 1203	Introduction to Speech Communication	

Summer Session – 7 hours

Hours			*Notes
4	CADD 2644	3D Visualization	2
3	English composition requirement		1

Third Semester – 15 hours

Hours			*Notes
4	CADD 2634	Architectural Materials	2
4	CADD 2654	Architectural CAD Applications	2
4	PHYS 2784	Physics Concepts and Applications	
3	Social sciences requirement		1

Fourth Semester – 16 hours

Hours		*Notes
4	CADD 2624 Photoshop Applications	2
4	CADD 2994 Engineering Graphics III	2
4	CADD 2944 Architectural Internship	2
4	CADD Elective	2 & 3

67 Total Hours

***Notes**

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence and one social 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 - DIGITAL DESIGN**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE****First Semester – 15 hours**

Hours		*Notes
1	CADD 1001 CAD Concepts and Applications	2
4	CADD 1234 Engineering Graphics I	2
4	CADD 2744 CAD-2D Design Level I	2
3	MATH 1403 College Algebra	
3	English composition requirement	1

Second Semester – 14 hours

Hours		*Notes
4	CADD 1284 Engineering Graphics II	2
4	CADD 2764 CAD-2D Design Level II	2
3	ART 1213 2-D Design or ART 1303 Figure Drawing	
3	MATH 1453 Plane Trigonometry	

Summer Session – 10 hours

Hours		*Notes
4	CADD 2644 3D Visualization	2
3	English composition requirement	1
3	Social sciences requirement	1

Third Semester – 15 hours

Hours		*Notes
4	CADD 2674 Digital Layout I	2

4	CADD 2664 Digital Design I	2
3	SPCH 1203 Introduction to Speech Communication	
4	PHYS 2784 Physics Concepts and Applications	

Fourth Semester – 16 hours

Hours		*Notes
4	CADD 2624 Photoshop Applications	2
4	CADD 2994 Engineering Graphics III	2
4	CADD 2694 Digital Layout II	2
4	CADD 2684 Digital Design II	2

70 Total Hours

***Notes**

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence and one social 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 - GENERAL**ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE****First Semester – 15 hours**

Hours		*Notes
1	CADD 1001 CAD Concepts and Applications	2
4	CADD 1234 Engineering Graphics I	2
4	CADD 2744 CAD-2D Design Level I	2
3	MATH 1403 College Algebra	
3	English composition requirement	1

Second Semester – 14 hours

Hours		*Notes
4	CADD 1284 Engineering Graphics II	2
4	CADD 2764 CAD-2D Design Level II	2
3	MATH 1453 Plane Trigonometry	
3	Social sciences requirement	1

Summer Session – 7 hours

Hours		*Notes
4	CADD 2644 3D Visualization	2
3	English composition requirement	1

Third Semester – 15 hours

Hours			*Notes
4	PHYS 2784	Physics Concepts and Applications	
3	SPCH 1203	Introduction to Speech Communication	
8	CADD 2654	Architectural CAD Applications and/or	
	CADD 2834	Machine Drawing and Design I and/or	
	CADD 1004	Intro to Geospatial Information Systems and/or	
	CADD 2664	Digital Design I - Foundation	2 & 3

Fourth Semester – 16 hours

Hours			*Notes
4	CADD 2624	Photoshop Applications	2
4	CADD 2994	Engineering Graphics III	2
8	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	2 & 3

67 Total Hours

*Notes

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

**CADD - GIS/GPS MAPPING
ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE**

First Semester – 15 hours

Hours			*Notes
1	CADD 1001	CAD Concepts and Applications	2
4	CADD 1234	Engineering Graphics I	2
4	CADD 2744	CAD-2D Design Level I	2
3	MATH 1403	College Algebra	
3		English composition requirement	1

Second Semester – 15 hours

Hours			*Notes
4	CADD 1284	Engineering Graphics II	2
4	CADD 2764	CAD-2D Design Level II	2
4	CADD 1104	GPS Mapping Fundamentals	2
3		English composition requirement	1

Summer Session – 10 hours

Hours			*Notes
3	MATH 1453	Plane Trigonometry	
3	SPCH 1203	Introduction to Speech Communication	
4	ITC 2324	Introductory Programming	2

Third Semester – 15 hours

Hours			*Notes
3		Social sciences requirement	1
4	CADD 1004	Introduction to GIS	2
4	CADD 1204	Civil Drafting Fundamentals	2
4	PHYS 2784	Physics Concepts and Applications	

Fourth Semester – 15 hours

Hours			*Notes
4	CADD 2624	Photoshop Applications	2
4	CADD 2204	Land Surveying & Information	2
4	CADD 2994	Engineering Graphics III	2
3	ITC 1143	Website Design	2

70 Total Hours

*Notes

1. General Education Core Requirements, see Graduation Requirements section of the catalog. Select one English sequence and one social 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**

First Semester – 15 hours

Hours			*Notes
1	CADD 1001	CAD Concepts and Applications	2
4	CADD 1234	Engineering Graphics I	2
4	CADD 2744	CAD-2D Design Level I	2
3	MATH 1403	College Algebra	
3		English composition requirement	1

Second Semester – 14 hours

Hours	*Notes
4 CADD 1284 Engineering Graphics II	2
4 CADD 2764 CAD-2D Design Level II	2
3 MATH 1453 Plane Trigonometry	
3 Social sciences requirement	1

Summer Session – 7 hours

Hours	*Notes
4 CADD 2644 3D Visualization	2
3 English composition requirement	1

Third Semester – 15 hours

Hours	*Notes
4 CADD 2834 Machine Drawing I	2
4 CADD 2624 Photoshop Applications	2
3 SPCH 1203 Introduction to Speech Communication	
4 PHYS 2784 Physics Concepts and Applications	

Fourth Semester – 16 hours

Hours	*Notes
4 CADD 2894 Parametric Modeling	2
4 CADD 2994 Engineering Graphics III	2
8 CADD electives	2 & 3

67 Total Hours

*Notes

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

CADD - ARCHITECTURAL TECHNICAL CERTIFICATE**First Semester – 15 hours**

Hours
1 CADD 1001 CAD Concepts and Applications
4 CADD 1234 Engineering Graphics I
4 CADD 2744 CAD-2D Design Level I
3 MATH 1403 College Algebra
3 ENGL 1203 Freshman English I

Second Semester – 15 hours

Hours
4 CADD 1284 Engineering Graphics II
4 CADD 2764 CAD-2D Design Level II
4 CADD 2634 Architectural Materials
3 MATH 1453 Plane Trigonometry

30 Total Hours

CADD - DIGITAL DESIGN TECHNICAL CERTIFICATE**First Semester – 15 hours**

Hours
1 CADD 1001 CAD Concepts and Applications
4 CADD 1234 Engineering Graphics I
4 CADD 2744 CAD-2D Design Level I
3 MATH 1403 College Algebra
3 ENGL 1203 Freshman English I

Second Semester – 15 hours

Hours
4 CADD 1284 Engineering Graphics II
4 CADD 2764 CAD-2D Design Level II
4 CADD 2664 Digital Design I
3 MATH 1453 Plane Trigonometry

30 Total Hours

CADD - GENERAL TECHNICAL CERTIFICATE**First Semester – 15 hours**

Hours
1 CADD 1001 CAD Concepts and Applications
4 CADD 1234 Engineering Graphics I
4 CADD 2744 CAD-2D Design Level I
3 MATH 1403 College Algebra
3 ENGL 1203 Freshman English I

Second Semester – 14 hours

Hours
4 CADD 1284 Engineering Graphics II
4 CADD 2764 CAD-2D Design Level II
3 MATH 1453 Plane Trigonometry
3 ENGL 1213 Freshman English II

Summer Semester – 4 hours

4 CADD 2644 3D Visualization

33 Total Hours

**CADD - GIS/GPS MAPPING
TECHNICAL CERTIFICATE**

First Semester – 15 hours

Hours

1	CADD	1001	CAD Concepts and Applications
4	CADD	1234	Engineering Graphics I
4	CADD	2744	CAD-2D Design Level I
3	MATH	1403	College Algebra
3	ENGL	1203	Freshman English I

Second Semester – 15 hours

Hours

4	CADD	1284	Engineering Graphics II
4	CADD	2764	CAD-2D Design Level II
4	CADD	1004	Introduction to GIS
3	MATH	1453	Plane Trigonometry

30 Total Hours

**CADD - MECHANICAL
TECHNICAL CERTIFICATE**

First Semester – 15 hours

Hours

1	CADD	1001	CAD Concepts and Applications
4	CADD	1234	Engineering Graphics I
4	CADD	2744	CAD-2D Design Level I
3	MATH	1403	College Algebra
3	ENGL	1203	Freshman English I

Second Semester – 15 hours

Hours

4	CADD	1284	Engineering Graphics II
4	CADD	2764	CAD-2D Design Level II
4	CADD	2834	Machine Drawing I
3	MATH	1453	Plane Trigonometry

30 Total Hours

**CADD - ARCHITECTURAL
CERTIFICATE OF PROFICIENCY**

Hours

4	CADD	2634	Architectural Materials
4	CADD	2654	Architectural CAD Apps
4	CADD	2644	3D Visualization
4	CADD	2624	Photoshop Applications

16 Total Hours

**CADD - DIGITAL DESIGN
CERTIFICATE OF PROFICIENCY**

Hours

4	CADD	2664	Digital Design I - Foundation
4	CADD	2674	Digital Layout I - Foundation
4	CADD	2684	Digital Design II - Advanced
4	CADD	2694	Digital Layout II - Advanced

16 Total Hours

**CADD - ENTRY LEVEL
CERTIFICATE OF PROFICIENCY**

Hours

4	CADD	1234	Engineering Graphics I
4	CADD	1284	Engineering Graphics II
4	CADD	2744	CAD-2D Design Level I
4	CADD	2764	CAD-2D Design Level II

16 Total Hours

**CADD-GIS/GPS MAPPING
CERTIFICATE OF PROFICIENCY**

Hours

4	CADD	1204	Civil Drafting
4	CADD	1004	Introduction to GIS
4	CADD	1104	GPS Mapping Fundamentals
4	CADD	2204	Land Surveying and Information

16 Total Hours

**CADD - MECHANICAL
CERTIFICATE OF PROFICIENCY**

Hours

4	CADD	2644	3D Visualization
4	CADD	2894	Parametric Modeling
4	CADD	elective	
4	CADD	elective	

16 Total Hours

**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

**First Semester – 17 hours

Hours			*Notes
4	ELEC 1234	Fundamentals of Electricity	2
2	ELEC 1242	Introduction to Electronics Technology	2
4	ELEC 1864	Digital Fundamentals	2
4	ELEC 1264	Industrial Electricity I	2
3		English composition requirement	1

Second Semester – 17 hours

Hours			*Note
3	ELEC 1353	Electrical Circuits and Components	2
4	ELEC 1394	Solid State	2
3	ELEC 1783	Industrial Electricity II	2
4	ELEC 1724	PC Systems Troubleshooting	2
3		English composition requirement	1

Third Semester – 17 hours

Hours			*Notes
3	ELEC 2513	PLC Applications	2
4	ELEC 2254	Visual Basic Electronics Applications	2
3	ELEC 2733	Advanced Electronic Circuits	2
4	ELEC 2754	Communication Systems	2
3	MATH 1403	College Algebra	

Fourth Semester – 16 hours

Hours			*Notes
4		Lab science requirement	4
3	SPCH 1203	Introduction to Speech Communication	
6	ELEC/Technology	electives	2 & 3
3		Social sciences requirement	1

67 Total Hours

*Notes:

1. General Education Core Requirements, see Graduation Requirements section of catalog. Select one English sequence and one social sciences 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 Chair.
 4. Consult with advisor. Select any lab science from CHEM, PHYS, or PHSC.
- ** First semester students may need to take MATH 1203 Intermediate Algebra.

Computer Maintenance

TECHNICAL CERTIFICATE

Hours			
4	ELEC 1234	Fundamentals of Electricity	
2	ELEC 1242	Introduction to Electronics Technology	
3	ELEC 1353	Electrical Circuits and Components	
4	ELEC 1394	Solid State	
4	ELEC 1724	PC Systems Troubleshooting	
4	ELEC 1864	Digital Fundamentals	
4	ELEC 2254	Visual Basic Electronics Applications	
3	ELEC 2843	Digital Communications	
3	ITC 1403	Operating Systems	

31 Total Hours

Industrial Electronics and Electrical Maintenance

TECHNICAL CERTIFICATE

Hours

4	ELEC	1234	Fundamentals of Electricity
2	ELEC	1242	Introduction to Electronics Technology
4	ELEC	1264	Industrial Electricity I
3	ELEC	1353	Electrical Circuits and Components
4	ELEC	1394	Solid State
3	ELEC	1783	Industrial Electricity II
4	ELEC	1864	Digital Fundamentals
4	ELEC	2254	Visual Basic Electronics Applications
3	ELEC	2513	PLC Applications
3	ELEC	2933	Industrial Control Systems

34 Total Hours

Computer Service Technician

CERTIFICATE OF PROFICIENCY

Hours

4	ELEC	1724	PC Systems Troubleshooting
3	ITC	1403	Operating Systems

7 Total Hours

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.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

Hours

6	English composition requirement	
3	MATH	1303 College Mathematics or higher

*Notes

1

3	Social sciences requirement		1
3	Computer requirement		3
4	Lab science requirement		5
3	SPCH	1203 Introduction to Speech Communication	
38-40	Technical requirements		2 & 4

60-62 Total Hours

*Notes:

1. General Education Core Requirements, see Graduation Requirements of this catalog. Select one English sequence and one social 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.
5. Select any science lecture/lab with PHSC or PHYS prefix.

Technical Requirements (Option 1)

The 40 credit hours must support one of the following concentrations:

- 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 5-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 Industrial Plant Maintenance
- Graphic Design
- Industrial Electronics and Electrical Maintenance

Information Technology
 Legal Assistance/Paralegal
 Machine Tool Technology
 Welding
 Workforce Leadership

*Other technical areas must be approved by the dean.

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.

UA Fort Smith'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 A.A.S. 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

First Semester – 16 hours

Hours				*Notes
3	ENGL	1203	Freshman English I	
3	ITA	1003	Computer Applications for the Knowledge Worker	
3	POLS	2753	American National Government	
3	LEGL	1043	Introduction to Law	1
4	LEGL	1104	Legal Research	1

Second Semester – 15 hours

Hours				*Notes
3	SPCH	1203	Introduction to Speech Communication	
3	MATH	1403	College Algebra	
3	ENGL	1213	Freshman English II	
3	LEGL	2723	Criminal Law	1
3	LEGL	2133	Torts	1

Summer Semester – 4 hours

Hours				*Notes
3	PSYC	1163	General Psychology	
1	APRO	1221	Digital Information Management	1

Third Semester – 13 hours

Hours				*Notes
3	LEGL	2323	Civil Litigation	1
3	LEGL	2143	Legal Writing	1
2	LEGL	2382	Legal Ethics	1
3	LEGL	2553	Real Estate Law	1
2			Legal or computer elective	1 & 2

Fourth Semester – 16 hours

Hours				*Notes
2	LEGL	2252	Family Law	1
3	LEGL	2643	Commercial Law	1
3	LEGL	2753	Wills, Trusts, and Probate	1
2	LEGL	2772	Business Organizations	1
3	LEGL	2823	Trial Practice	1
3			General elective requirement	2

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, 2712, 2762 or ITA 1051, 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	Pipe Welder
Welding Supervisor	Production Line Welder
Arc Welder	Maintenance Welder
MIG Welder	TIG Welder
Structural Fabricator	

GENERAL TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

First Semester – 14 hours

Hours		*Notes
4 WELD 1234	Introduction to Welding and Print Reading	2
4 WELD 1454	Layout and Fabrication - Sheet Metal	2
3 MATH 1303	College Mathematics or higher MATH	
3	Computer requirement	3

Second Semester – 14 hours

Hours		*Notes
4 WELD 1404	MIG Welding - Basic	2
4	Advanced WELD elective	2 & 5
3	English composition requirement	1
3 SPCH 1203	Introduction to Speech Communication	

Summer Semester – 7 hours

Hours		*Notes
4 WELD 1384	TIG Welding - Basic or Advanced WELD elective	2 & 5
3	English composition requirement	1

Third Semester – 15 hours

Hours		*Notes
4 WELD 1284	Arc Welding - Basic	2
4 WELD 1474	Layout and Fabrication - Structural and Pipe	2
4	Advanced WELD elective	2 & 5
3	Social sciences requirement	1

Fourth Semester – 12 hours

Hours		*Notes
8	Advanced WELD electives	2 & 5
3	Lab science requirement	4

62 Total Hours

*Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select one English sequence and one social 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 any science lecture/lab with PHSC or PHYS prefix.
5. Select WELD electives from the following in consultation with advisor: WELD 2384, 2404, 2284, 2402, 2282.

TECHNICAL CERTIFICATE

First Semester – 16 hours

Hours		*Notes
4 WELD 1234	Introduction to Welding and Print Reading	
4 WELD 1404	MIG Welding - Basic	
4 WELD 1454	Layout and Fabrication - Sheet Metal	
4	Advanced WELD elective	1

Second Semester – 16 hours

Hours

4	WELD	1284	Arc Welding - Basic
4	WELD	1384	TIG Welding - Basic
4	WELD	1474	Layout and Fabrication - Structural and Pipe
4	Advanced WELD elective		

*Notes

4	WELD	1454	Layout and Fabrication - Sheet Metal
4	WELD	1474	Layout and Fabrication - Structural and Pipe

12 Total Hours

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**

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**

Hours

4	WELD	1234	Introduction to Welding and Print Reading
4	WELD	1404	MIG Welding - Basic
4	WELD	2404	MIG Welding - Advanced

12 Total Hours

**TIG WELDING
CERTIFICATE OF PROFICIENCY**

Hours

4	WELD	1234	Introduction to Welding and Print Reading
4	WELD	1384	TIG Welding - Basic
4	WELD	2384	TIG Welding - Advanced

12 Total Hours

**WELDING LAYOUT AND FABRICATION
CERTIFICATE OF PROFICIENCY**

Hours

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

1

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
Freshman Year Fall Semester – 15 hours**

Hours

4	WFL	1374	Human Relations & Interpersonal Development	*Notes	2
4	WFL	1174	Total Quality Essentials		2
4	WFL	2174	Introduction to Lean Enterprise Systems		2
3	WFL	2993	Workforce Leadership: Special Project		2

Freshman Year Spring Semester – 17 hours

Hours

4	PHSC	2653/2651	Earth Science/Lab	*Notes	
3	WFL	2583	Advanced Team Building		2
3	MATH	1303	College Math or MATH 1403 College Algebra		
3	WFL	2853	Problem Solving & Decision Making		2
3	ENGL	1203	Freshman English I		
1	WFL	elective			2 & 3

Sophomore Year Fall Semester – 15 hours

Hours

3	ENGL	1213	Freshman English II	*Notes	
3	Social sciences requirement				1
1	WFL	IT	elective 2 & 4		

- 1 WFL IT elective 2 & 4
- 1 WFL IT elective 2 & 4
- 6 WFL electives 2 & 3

Sophomore Year Spring Semester – 17 hours

Hours	*Notes
12 WFL electives	2 & 3
2 TCHG 1182 Industrial Safety	2
3 WFL 2903 Workforce Leadership Capstone	2

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

TECHNICAL CERTIFICATE

First Semester Courses - 15 hours

Hours	
4 WFL 1374	Human Relations and Interpersonal Development
4 WFL 1174	Total Quality Essentials
4 WFL 2174	Introduction to Lean Enterprise Systems
3 WFL 2993	Workforce Leadership: Special Topics

Second Semester Courses - 15 hours

2 TCHG 1182	Industrial Safety
3 WFL 2583	Advanced Team Building
3 WFL 2853	Problem Solving and Decision Making
3 MATH 1303	College Math or
MATH 1403	College Algebra
3 ENGL 1203	Freshman English I
1 WFL elective	(Selected with faculty adviser)

30 Total Hours

CERTIFICATE OF PROFICIENCY

4 WFL 1374	Human Relations and Interpersonal Development
4 WFL 1174	Total Quality Essentials
4 WFL 2174	Introduction to Lean Enterprise Systems
3 WFL 2993	Workforce Leadership: Special Topics

15 Total Hours



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.

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.
3. Complete the following courses with a grade of “C” or better: ACCT 2803 Principles of Financial Accounting, ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics, MGMT 2863 Business Communications, MGMT 2963 Business Statistics, COBI 1033 Foundations of Business, LAW 2003 Legal Environment of Business, and MATH 2403 Survey of Calculus.

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 51 semester hours of general education requirements, 42 semester hours of the business core, and 24 semester hours of specific major requirements, and 9 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 UA Fort Smith.

- a. Any UA Fort Smith student who has declared a major in business must get prior approval from the College dean to take any course at another institution before credit will be given for the course. Appropriate documentation must be attached to the Course Substitution Waiver Request form with the notation that approval depends on satisfactory completion of the course.
 - b. COBI 4813 Strategic Management must be taken from the College of Business at UA Fort Smith.
4. A minimum of 45-semester credit hours in upper-level courses is required for graduation. To enroll in upper-level business courses, a student majoring in the College of Business must meet admission requirements for the College of Business.
 5. All candidates for the baccalaureate degree in the College of Business are required to take a designated major field assessment test. This test is administered as a part of the capstone COBI 4813 Strategic Management course. Scores earned on the test become part of the course grade; taking the test is a requirement for course completion.

Students not majoring in the College of Business may enroll in upper-level business courses, provided they have proper prerequisites and have achieved upper-level status. However, those not majoring in the College of Business may receive credit for no more than 30 semester hours of coursework from the College.

The College of Business offers the following majors and degrees:

BACCALAUREATE DEGREE WITH A MAJOR IN ONE OF THE FOLLOWING:

- Accounting
- Business Administration
- Marketing

MAJOR REQUIREMENTS

Students must satisfy either the accounting, business administration, or marketing major requirements to earn the baccalaureate degree. Students interested in a double major should work with their faculty advisor.

MINOR

- Business Administration

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

Freshman Year Fall Semester – 16 hours

Hours		*Notes
3	English composition requirement	1
3	COBI 1033 Foundations of Business	2 & 4
3	MATH 1403 College Algebra	3
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
1	MGMT 1201 Planning for Success	3

Freshman Year Spring Semester – 15 hours

Hours		*Notes
3	English composition requirement	1
3	SPCH 1203 Introduction to Speech Communication	
3	MATH 2403 Survey of Calculus or higher math	
3	History/Government requirement	1
3	Required business computing competency	3 & 5

Sophomore Year Fall Semester – 16 hours

Hours		*Notes
3	MGMT 2963 Business Statistics	2 & 4
3	MGMT 2863 Business Communications	2 & 4
3	ECON 2803 Principles of Macroeconomics	2 & 4
3	ACCT 2803 Principles of Financial Accounting	2 & 4
4	Lab science requirement	1

Sophomore Year Spring Semester – 16 hours

Hours		*Notes
3	ACCT 2813 Principles of Managerial Accounting	2 & 4
3	ECON 2813 Principles of Microeconomics	2 & 4
3	LAW 2003 Legal Environment of Business	2 & 4

4	Lab science requirement	1
3	COBI 2033 Social Responsibility and Ethics in Business	2 & 4

Junior Year Fall Semester – 15 hours

Hours		*Notes
3	FIN 3713 Business Finance	2
3	ACCT 3023 Cost Accounting	2
3	MKTG 3013 Principles of Marketing Management	2
3	ACCT 3003 Intermediate Accounting I	2
3	MGMT 3153 Organizational Behavior	2

Junior Year Spring Semester – 18 hours

Hours		*Notes
3	MGMT 3523 Operations Management	2
3	COBI 3033 New Venture Creation	2
3	ACCT 3053 Accounting Information Systems	2
3	ACCT 3013 Intermediate Accounting II	2
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1

Senior Year Fall Semester – 15 hours

Hours		*Notes
3	MGMT 3913 Decision Support Systems	2
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	ACCT 4023 Advanced Accounting	2
3	ACCT 4013 Tax Accounting I	2
3	RHET 3603 Writing for the Workplace	

Senior Year Spring Semester – 15 hours

Hours		*Notes
3	COBI 4813 Strategic Management	2
3	ACCT 4053 Auditing I	2
3	ACCT/LAW/COBI upper-level elective	2
3	Elective	3
3	Elective	3

126 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, 13 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. MGMT1201 is required for first-time, full-time freshmen. Consult with advisor for other electives.
4. Lower-level Business Core, 27 hours (includes ECON courses). Review College of Business admission requirements for standards of performance.
5. Required business computing competency may be fulfilled by successful completion of MGMT 2103 or ITA 1003 or challenge exam 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 126 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 - (24 HOURS)

24 hours of upper level courses from at least 3 functional areas within the College (ACCT, COBI, ECON, FIN, LAW, MGMT, or MKTG)

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

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English Composition requirement	1
3 COBI 1033 Foundations of Business	2 & 4
3 MATH 1403 College Algebra	3
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
1 MGMT 1201 Planning for Success	3

Freshman Year Spring Semester – 15 hours

Hours	*Notes
3 English Composition Requirement	1
3 SPCH 1203 Introduction to Speech Communication	
3 MATH 2403 Survey of Calculus or higher math	
3 History/Government requirement	1
3 Required business computing competency	3 & 6

Sophomore Year Fall Semester – 16 hours

Hours	*Notes
3 MGMT 2963 Business Statistics	2 & 4
3 MGMT 2863 Business Communications	2 & 4
3 ECON 2803 Principles of Macroeconomics	2 & 4
3 ACCT 2803 Principles of Financial Accounting	2 & 4
4 Lab science requirement	1

Sophomore Year Spring Semester – 16 hours

Hours	*Notes
3 ACCT 2813 Principles of Managerial Accounting	2 & 4
3 ECON 2813 Principles of Microeconomics	2 & 4
3 LAW 2003 Legal Environment of Business	2 & 4

3 COBI 2033 Social Responsibility and Ethics in Business	2 & 4
4 Lab science requirement	1

Junior Year Fall Semester – 15 hours

Hours	*Notes
3 FIN 3713 Business Finance	2
3 MGMT 3153 Organizational Behavior	2
3 MKTG 3013 Principles of Marketing Management	2
3 RHET 3603 Writing for the Workplace	
3 Fine Arts/Humanities/ Social Sciences requirement	1

Junior Year Spring Semester - 18 hours

Hours	*Notes
3 MGMT 3523 Operations Management	2
3 COBI 3033 New Venture Creation	2
3 Major requirement	2 & 5
3 Major requirement	2 & 5
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1

Senior Year Fall Semester – 15 hours

Hours	*Notes
3 MGMT 3913 Decision Support Systems	2
3 Major requirement	2 & 5
3 Major requirement	2 & 5
3 Major requirement	2 & 5
3 Elective	3

Senior Year Spring Semester – 15 hours

Hours	*Notes
3 COBI 4813 Strategic Management	2
3 Major requirement	2 & 5
3 Major requirement	2 & 5
3 Major requirement	2 & 5
3 Elective	3

126 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, 13 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.
4. Lower-level Business Core, 27 hours (includes ECON courses). Review College of Business admission requirements for standards of performance.
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 challenge exam or approved substitution. Will count as a general elective.

- | | | |
|---|--|-------|
| 3 | History/Government requirement | 1 |
| 3 | SPCH 1203 Introduction to Speech Communication | |
| 3 | Required business computing competency | 3 & 6 |

Sophomore Year Fall Semester – 16 hours

- | | | |
|-------|--|--------|
| Hours | | *Notes |
| 3 | MGMT 2963 Business Statistics | 2 & 4 |
| 3 | MGMT 2863 Business Communications | 2 & 4 |
| 3 | ECON 2803 Principles of Macroeconomics | 2 & 4 |
| 3 | ACCT 2803 Principles of Financial Accounting | 2 & 4 |
| 4 | Lab science requirement | 1 |

Sophomore Year Spring Semester – 16 hours

- | | | |
|-------|--|--------|
| Hours | | *Notes |
| 3 | ACCT 2813 Principles of Managerial Accounting | 2 & 4 |
| 3 | ECON 2813 Principles of Microeconomics | 2 & 4 |
| 3 | LAW 2003 Legal Environment of Business | 2 & 4 |
| 3 | COBI 2033 Social Responsibility and Ethics in Business | 2 & 4 |
| 4 | Lab science requirement | 1 |

Junior Year Fall Semester – 15 hours

- | | | |
|-------|---|--------|
| Hours | | *Notes |
| 3 | FIN 3713 Business Finance | 2 |
| 3 | MGMT 3153 Organizational Behavior | 2 |
| 3 | MKTG 3013 Principles of Marketing Management | 2 |
| 3 | RHET 3603 Writing for the Workplace | |
| 3 | Fine Arts/Humanities/ Social Sciences requirement | 1 |

Junior Year Spring Semester – 18 hours

- | | | |
|-------|---|--------|
| Hours | | *Notes |
| 3 | MGMT 3523 Operations Management | 2 |
| 3 | MKTG 3123 Consumer Behavior | 2 |
| 3 | MKTG 3133 Marketing Research | 2 |
| 3 | COBI 3033 New Venture Creation | 2 |
| 3 | Fine Arts/Humanities/ Social Sciences requirement | 1 |
| 3 | Fine Arts/Humanities/ Social Sciences requirement | 1 |

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

Freshman Year Fall Semester – 16 hours

- | | | |
|-------|---|--------|
| Hours | | *Notes |
| 3 | English composition requirement | 1 |
| 3 | MATH 1403 College Algebra | 3 |
| 3 | COBI 1033 Foundations of Business | 2 & 4 |
| 3 | Fine Arts/Humanities/ Social Sciences requirement | 1 |
| 3 | Fine Arts/Humanities/ Social Sciences requirement | 1 |
| 1 | MGMT 1201 Planning for Success | 3 |

Freshman Year Spring Semester – 15 hours

- | | | |
|-------|---|--------|
| Hours | | *Notes |
| 3 | English composition requirement | 1 |
| 3 | MATH 2403 Survey of Calculus or higher math | |

Senior Year Fall Semester – 15 hours

Hours		*Notes
3	MGMT 3913 Decision Support Systems	2
3	MKTG 4003 Selling Strategies	2
3	MKTG Elective	2 & 5
3	Major requirement	2 & 5
3	Elective	3

Senior Year Spring Semester – 15 hours

Hours		*Notes
3	MKTG 4033 Services Marketing	2
3	Marketing elective	2 & 5
3	Major requirement	2 & 5
3	COBI 4813 Strategic Management	2
3	Elective	3

126 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, 13 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.

4. Lower-Level Business Core, 27 hours (includes ECON courses). Review College of Business admission requirements for standards of performance.
5. Major requirements, 12 hours. Select 6 hours of upper-level MKTG electives. Select 6 other upper level hours from within the College of Business and at least two 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 challenge exam or approved substitution. Will count as a general elective.

BUSINESS ADMINISTRATION MINOR

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.

Prerequisite: ECON 2803 Principles of Macroeconomics or ECON 2813 Principles of Microeconomics must be completed prior to entering the minor.

Required 12 hours:

COBI	1033	Foundations of Business
ACCT	2803	Principles of Financial Accounting
MKTG	3013	Principles of Marketing Management
MGMT	3153	Organizational Behavior

Select 6 hours:

Upper-level electives from the following areas:
ACCT, ECON, FIN, MGMT, or MKTG

COLLEGE OF EDUCATION



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: ENGL 1203 or 1233, appropriate mathematics course, and EDUC 2753 and EDUC 3002/3003 with a “C” or better and ENGL 1213 or RHET 2863, and a course in speech with a “B” or better.
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 UA Fort Smith’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.



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 bachelor’s 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.

Majors and Degrees Offered

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

ENDORSEMENTS

- Algebra I, Grade 8
- Grade 5 and 6 Licensure
- Special Education P-4 or 4-12 Licensure

Early Childhood Education P-4

BACHELOR OF SCIENCE (BS) DEGREE

Freshman Year Fall Semester – 16 (17) hours

Hours		*Notes
3	English composition requirement	1 & 4
3	MATH 1403 College Algebra or higher course	4
3	Fine Arts/Humanities/Social Sciences requirement	1
4	Lab science requirement	1
3	History/Government requirement	1
1	CISM 0101 Introduction to Personal Computers (if required)	

Freshman Year Spring Semester – 17 hours

Hours		*Notes
3	English composition requirement	1 & 4
3	Fine Arts/Humanities/Social Sciences requirement	1
3	MATH program requirement	2 & 3
3	SPCH 1203 Introduction to Speech Communication	4
1	PHYE program requirement	2 & 3
4	Lab science requirement	1

Sophomore Year Fall Semester – 16 hours

Hours		*Notes
3	EDUC 2753 Introduction to Education	2 & 4
3	EDUC 3003 Introduction to Educational Technology	2 & 4
2	FORL 1322 Beg. Conversational Spanish	2
2	FORL 1332 Beg. Conversational Spanish	2
3	Fine Arts/Humanities/Social Sciences requirement	1
3	MATH program requirement	2 & 3

Sophomore Year Spring Semester – 16 hours

Hours		*Notes
3	ECED 3023 Foundations of ECE	2
3	ECED 3033 Child Development	2
3	History/Government requirement	1
4	Lab science requirement	1
3	PHYE 2953 First Aid	2

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

Hours				*Notes
3	ECED	3043	Developmentally Appropriate Practice	2 & 5
3	ECED	3053	Children and Families in a Diverse Society	2 & 5
3	ECED	3153	Creative Arts in Early Childhood	2 & 5
3	ECED	3003	Science in the ECE Classroom	2
3	HIST	4153	History of Arkansas	2
3	Fine Arts/Humanities/ Social Sciences requirement			1

Junior Year Spring Semester – 15 hours

Hours				*Notes
3	ECED	3113	Integrated Curriculum (3-5 yrs)	2 & 5
2	ECED	3122	Practicum I (3-5 yrs)	2 & 5
3	ECED	3173	Guiding Children	2 & 5
3	ECED	3183	Language and Literacy I (3-5 yrs)	2 & 5
3	ECED	3193	Children’s Literature	2 & 5
1	PHYE program requirement			2 & 3

Senior Year Fall Semester – 14 hours

Hours				*Notes
3	ECED	3063	Methods of Teaching Mathematics in the EC Setting	2
3	ECED	3213	Integrated Curriculum II (6-9 yrs)	2 & 5
2	ECED	3222	Practicum II (6-9 yrs)	2 & 5
3	ECED	3263	Assessment in ECE	2 & 5
3	ECED	3283	Language and Literacy II (6-9 yrs)	2 & 5

Senior Year Spring Semester – 14 hours

Hours				*Notes
2	EDUC	4802	Seminar in Education	2 & 5
12	ECED	490C	ECED Internship	2 & 5

126 - 127 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. Program Requirements 8 hours. MATH required courses: 2333 and 2343. PHYE required activity courses: select two 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.

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

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English composition requirement	1 & 4
3 MATH 1403 College Algebra or higher MATH	4
4 Lab science requirement	1
3 History/Government requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1

Freshman Year Spring Semester – 14 hours

Hours	*Notes
3 English composition requirement	1 & 4
4 Lab science requirement	1
3 SPCH 1203 Introduction to Speech Communication	4
2 FORL 1322 Beg. Conversational Spanish	2
2 FORL 1332 Beg. Conversational Spanish	2

Summer Term(s) – 13 hours

(Following courses need to be scheduled during one or more summer terms prior to the senior year.)

Hours	*Notes
3 History/Government requirement	1
3 MATH 2333 Structures of Arithmetic	2
3 HIST 4153 History of Arkansas	2
4 PHSC 2653/2651 Earth Science/Lab	2

Sophomore Year Fall Semester – 16 hours

Hours	*Notes
3 EDUC 2753 Introduction to Education	2 & 4
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 ENGL program requirement	2 & 3
3 History/Government requirement	1
3 HIST 1123 Civilizations of the World to 1500	2
1 PHYE program requirement	2 & 3

Sophomore Year Spring Semester – 15 hours

Hours	*Notes
3 EDUC 3003 Introduction to Educational Technology	2 & 4
3 ENGL program requirement	2 & 3
3 ENGL program requirement	2 & 3
3 HIST 1133 Civilizations of the World since 1500	2
3 MATH 2343 Informal Geometry	2

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

Hours	*Notes
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 ENGL program requirement	2 & 3
3 STAT 2503 Probability and Statistics	2
3 MLED 3563 Middle School Concepts	2 & 5
3 MLED 4113 Middle-level Literacy and Literature	2 & 5

Junior Year Spring Semester – 16 hours

Hours	*Notes
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 ENGL 3403 Grammar and Language Awareness	2
2 EDUC 3112 Literacy Development in the Content Area	2 & 5
2 EDUC 3222 Practicum I	2 & 5
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 hours

Hours	*Notes
3 ENGL program requirement	2 & 3
3 MLED 4123 Integrating Methods in Middle Level Social Studies/ Language Arts	2 & 5
2 EDUC 4222 Assessment	2 & 5
2 EDUC 3612 Classroom and Behavioral Management	2 & 5
1 EDUC 4211 Practicum II	2 & 5
2 SPED 3022 Survey of Diverse Populations	2 & 5
1 PHYE program requirement	2 & 3

Senior Year Spring Semester – 12 hours

Hours	*Notes
2 EDUC 4802 Seminar in Education	2 & 5
10 MLED 490A Teaching in the Middle School	2 & 5

131 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, 1841, 2571, or 2841. 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.

4	Lab science requirement	1
3	History/Government requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1

Freshman Year Spring Semester – 18(17) hours

Hours		*Notes
3	English composition requirement	1 & 4
4	Lab science requirement	1
3	SPCH 1203 Introduction to Speech Communication	4
4	MATH 2804 Calculus I (or elective if taken first semester)	1 & 4
2	FORL 1322 Beg. Conversational Spanish	2
2	FORL 1332 Beg. Conversational Spanish	2

Summer Term(s) – 6 hours

(Following courses need to be scheduled during one or more summer terms prior to the senior year.)

Hours		*Notes
3	History/Government requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Fall Semester – 14 hours

Hours		*Notes
3	EDUC 2753 Introduction to Education	2 & 4
4	CHEM 1303/1301 Chemical Principles/Lab	2
3	MATH 2333 Structures of Arithmetic	2 & 3
3	MATH 2343 Informal Geometry	2 & 3
1	PHYE program requirement	2 & 3

Sophomore Year Spring Semester – 17 hours

Hours		*Notes
3	EDUC 3003 Introduction to Educational Technology	2 & 4
4	BIOL 1433/1431 Basic Anatomy and Physiology/Lab or BIOL 1533/1531 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

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

Freshman Year Fall Semester – 18 (17) hours

Hours		*Notes
3	English composition requirement	1 & 4
5	MATH 1715 Pre-Calculus Mathematics (if needed as a prerequisite for MATH 2804 or mathematics requirement	2 & 3

into the College of Education prior to enrollment in particular courses.

Junior Year Fall Semester – 15 hours

Hours			*Notes
3	Fine Arts/Humanities/ Social Sciences requirement		1
3	STAT 2503 Probability and Statistics or STAT 3503 Applied Mathematical Statistics I		2 & 3
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 – 16 hours

Hours			*Notes
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
2	EDUC 3222 Practicum I		2 & 5
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

Hours			*Notes
3/4	BIOL/CHEM Upper-level elective		2
3	MLED 4123 Integrating Methods in Middle-Level Social Studies/Language Arts		2 & 5
2	EDUC 4222 Assessment		2 & 5
2	EDUC 3612 Classroom and Behavioral Management		2 & 5
1	EDUC 4211 Practicum II		2 & 5
2	SPED 3022 Survey of Diverse Populations		2 & 5
1	PHYE program requirement		2 & 3

Senior Year Spring Semester – 12 hours

Hours			*Notes
2	EDUC 4802 Seminar in Education		2 & 5
10	MLED 490A Teaching in the Middle School		2 & 5

128 - 131 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-MATH 2804 is required; 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 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 17 hours. PHYE required activity courses: select two from 1011, 1101, 1021, 1261, 1321, 1551, 1561, 1571, 1621, 1841, 2571, or 2841. At least 15 hours of MATH or STAT courses are required: MATH 2333, 2343, 2503, and 3803 and 3 hours of an elective approved by the middle level program director. If student is unprepared for MATH 2804 the first semester, MATH 1715 will satisfy the 3 hours of mathematics elective.
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.

ALGEBRA I ENDORSEMENT, GRADE 8

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, 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

- MATH 2333 Structures of Arithmetic
- MATH 2343 Informal Geometry
- MATH 2804 Calculus I
- MATH 3803 Mathematics Pedagogy for Numerical Systems
- STAT 2503 Probability and Statistics

GRADE 5 AND 6 LICENSURE ENDORSEMENT

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 appropriate subject area if not previously completed.

Course Requirements

- EDUC 3023 Adolescent Growth and Development
- MLED 4133 Meeting the Needs of Diverse Learners in the Middle Childhood Setting
- MLED 4153 Middle Childhood Teaching Strategies and Classroom Management Techniques

SPECIAL EDUCATION P-4 OR 4-12 LICENSURE ENDORSEMENT

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 UA Fort Smith 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

- SPED 3203 Nature and Needs of Students with Mild Disabilities
- SPED 3313 Language Development
- SPED 3413 Classroom and Group Management
- SPED 4213/ 4223 Instructional Planning P-4/ 4-12
- SPED 3423 Educational Diagnosis and Assessment
- SPED 4343/ 4353 Methods and Materials P-4/ 4-12
- SPED 4903/ 4913 Directed Internship P-4/ 4-12

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.

ASSOCIATE OF APPLIED SCIENCE DEGREE CONCENTRATION IN EARLY CHILDHOOD EDUCATION

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 to a bachelor's degree program. Although some of the courses will not transfer to a bachelor's degree 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

Hours			*Notes
3	ENGL 1203	Freshman English I	
3	MATH 1203	Intermediate Algebra or higher course	
3	ITA 1003	Computer Applications for the Knowledge Worker	
3	ECED 2023	Foundations of Early Childhood Education	2

3	ECED	2033	Child Development	2
1	ECED	1411	Early Childhood Field Experience II	2

Freshman Year Spring Semester – 15 hours

Hours				*Notes
3	ENGL	1213	Freshman English II	
3	ECED	2003	Guidance and Behavioral Management	2
4	ECED	1304	Developmentally Appropriate Practice in ECE	2
1	ECED	1401	Early Childhood Field Experience I	2
4	SPAN	1304	Beginning Spanish I	2

Sophomore Year Fall Semester – 15 hours

Hours				*Notes
3	PSYC	1163	General Psychology or	
	SOCI	2753	Introduction to Sociology	
3	Fine Art program requirement			1 & 2
3	ECED	2073	Music and Movement	2
3	SPCH	1203	Intro to Speech Communication	2
3	EDUC	2003	Essential Science and Math in ECE	2

Sophomore Year Spring Semester – 14 hours

Hours				*Notes
3	SOCI	2753	Introduction to Sociology or	
	PSYC	1163	General Psychology	
3	ECED	2093	Health, Safety, and Nutrition for Young Learners	2

1	ECED	1051	Art in the ECE Classroom	2
3	PHYE	2953	First Aid	2
3	ECED	2083	Essential ECED Literacy & Language	2
1	ECED	1421	Early Childhood Field Experience III	2

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.

COLLEGE OF HEALTH SCIENCES



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.

Majors and Degrees Offered:

The College of Health Sciences offers the following majors and degrees:

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 UA Fort Smith. 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 College of Health Sciences. Admission into these programs is highly selective. Meeting the minimum criteria for admission or taking required courses from a designated program 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 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.

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 UA Fort Smith 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.

DEGREE REQUIREMENTS

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 | US History I |
| | | 2763 | US 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 | US History I |
| | | 2763 | US 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
3	ISS	3113	Cross-Sectional Anatomy for Sonographers
2	ISS	3102	Clinical Lab Practice

Spring Semester – 11 hours

Hours			
2	ISS	3212	Acoustical Physics & Instrumentation II
3	ISS	3203	Abdominal Sonography I
3	ISS	3213	Clinical Practice I
3	ISS	3223	Vascular Sonography I

Summer Term – 6 hours (10 weeks)

Hours			
3	ISS	4303	Obstetrical and Gynecological Sonography I
3	ISS	4323	Clinical Practice II

Fall Semester – 12 hours

Hours			
3	ISS	4413	Abdominal Sonography II
2	ISS	4402	Special Applications and Pathological Considerations
4	ISS	4434	Clinical Practice III
3	ISS	4433	Vascular Sonography II

Spring Semester – 8 hours

Hours			
3	ISS	4513	Obstetrical and Gynecological Sonography II
1	ISS	4501	Professional Seminar
4	ISS	4544	Clinical Practice IV

135 Total Hours

Imaging Sciences - Management

**BACHELOR OF SCIENCE (BS) DEGREE
ADMISSION 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, and
 - 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 UA Fort Smith 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.

DEGREE REQUIREMENTS

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 - 6 hours

- 3 MATH 1403 College Algebra or MATH with College Algebra as a prerequisite
- 3 STAT 2503 Probability and Statistics

Speech - 3 hours

- 3 SPCH 1203 Introduction to Speech Communication

Lab Science – 8 hours

- (select two courses from the following)
- 4 BIOL 1153/1151 Biological Science/Lab
 - 4 BIOL 1523/1521 Anatomy and Physiology I/Lab
 - 4 BIOL 1533/1531 Anatomy and Physiology II/Lab

- 4 BIOL 2303/2301 General Botany/Lab
- 4 BIOL 2503/2501 General Microbiology/Lab
- 4 CHEM 1303/1301 Chemical Principles/Lab
- 4 CHEM 1314 Organic Physiological Chemistry
- 8 CHEM 1403/1401 College Chemistry I/Lab
1413/1411 College Chemistry II/Lab
- 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 US History I
2763 US 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 US History I
2763 US 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 Licensing Examination for Registered Nurses 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 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

1. Submission of official transcripts from any college(s) previously attended.
2. Documentation of a minimum 2.5 cumulative grade point average for all college coursework.
3. Completion of all prerequisite courses (47 credit hours) and a minimum grade of "C" in each course.
4. Submission of the Student Health Statement/

- Medical Release Form documenting ability to meet physical requirements of clinical education. 5. Documentation of immunization requirements.
6. Documentation of CPR certification: American Heart Association CPR for Health Care Providers.
 7. Completion of the application process.

Students must complete an application to enter UA Fort Smith and then must apply to the BSN program. Students are admitted each fall spring semester. Contact the College of Health Sciences coordinator of academic support services for additional admission, progression and graduation requirements.

DEGREE REQUIREMENTS

Freshman Year First Semester – 16 hours

Hours	*Notes
3 English composition requirement	1 & 3
3 MATH 1403 College Algebra or higher course	3
3 SPCH 1203 Introduction to Speech Communication	3
3 PSYC 1163 General Psychology	3
4 CHEM 1303/1301 Chemical Principles/Lab	3

Freshman Year Second Semester – 16 hours

Hours	*Notes
3 English composition requirement	1 & 3
3 Fine Arts requirement	1
3 Social Sciences requirement	1
3 PSYC 2963 Developmental Psychology: A Life Span	3
4 BIOL 1523/21 Anatomy & Physiology I/Lab	3

Sophomore Year First Semester – 15 hours

Hours	*Notes
4 BIOL 1533/31 Anatomy & Physiology II/Lab	3
4 BIOL 1463/61 Microbiology & Immunology/Lab	3
3 History/Government requirement	1
4 SPAN 1304 Beginning Spanish I	

(Required admission into the BSN program. Admission is selective.)

Sophomore Year Second Semester – 15 hours

Hours	*Notes
3 HLTH 3103 Pathophysiology	2

2	NURS	2002	Information Technology in Nursing	2
3	NURS	2103	Introduction to Professional Nursing	2
4	NURS	3164	Health Assessment	2
3	Humanities requirement			1

Junior Year First Semester – 16 hours

Hours				*Notes
7	NURS	3227	Foundations of Nursing Care	2
3	NURS	3113	Nursing Skills	2
3	PHAR	3203	General Pharmacology	
3	NUTR	2523	Nutrition	

Junior Year Second Semester – 16 hours

Hours				*Notes
3	STAT	2503	Probability and Statistics	
6	NURS	3236	Nursing Care of Women and Children	2
7	NURS	3337	Nursing Care of the Adult I	2

Senior Year First Semester – 17 hours

Hours				*Notes
12	NURS	434C	Nursing Care of the Adult II	2
3	HLTH	4103	Research in the Health Sciences	2
2	NURS	4102	Healthy Aging	2

Senior Year Second Semester – 17 hours

Hours				*Notes
5	NURS	4355	Nursing Care of the Critically Ill Adult	2
8	NURS	4458	Psychiatric and Community Health Nursing	2
4	NURS	4364	Leadership in Professional Nursing	2

128 Total Hours

At least 45 hours must be upper level

Notes:

1. General Education Core Requirements, see Graduation Requirements, 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. Health Sciences Courses Required for Admission: 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 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

1. Submission of official transcripts showing successful completion of an NLNAC accredited associate degree or diploma nursing program. Students graduating from a nursing program that is not NLNAC accredited will be evaluated on an individual basis.
2. Submission of official transcripts from any college(s) previously attended, have a minimum grade of "C" in each college course and a cumulative grade point average of 2.5 in all college courses that apply toward the BSN degree.
3. Documentation of a current, unencumbered license as a registered nurse.
4. Submission of the Student Health Statement/ Medical Release Form and immunization requirements.
5. Documentation of CPR certification: American Heart Association CPR for Health Care Providers.
6. Submission or documentation of a completed criminal background check.
7. Provision of professional liability insurance certificate with minimum limits of \$1,000,000/ incident and \$3,000,000 aggregate.
8. Documentation 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 executive director of the Carolyn McKelvey Moore School of Nursing.

Students must complete an application to enter UA Fort Smith and then must apply as to the Carolyn McKelvey Moore School of Nursing an RN-BSN student. Students are admitted each fall and spring semester. Completion of all general education and nursing support courses is recommended prior to acceptance as an RN-BSN online completion student. Contact the College of Health Sciences coordinator of academic support services for additional admission, progression and graduation requirements.

DEGREE REQUIREMENTS

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

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 US History I
2763 US 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 US History I
2763 US 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

Hours				*Notes
4	NURS	3164	Health Assessment (8 weeks)	1
2	NURS	4102	Healthy Aging (8 weeks)	1
3	HLTH	3103	Pathophysiology (16 weeks)	1
3	HLTH	4103	Research Health Sciences (8 weeks)	1
3	NURS	4203	Nursing Information Systems (8 weeks)	1

Summer I – 7 hours

Hours				*Notes
4	NURS	4234	Nursing Concentration (10 weeks)	1
3	NURS	4133	Professional Perspectives	1

Summer II – 3 hours

Hours				*Notes
3	NURS	4303	Leadership & Management in Professional Nursing	1

Fall Semester – 17 hours

Hours				*Notes
6	NURS	4656	Community as Client (16 weeks)	1
5	NURS	4705	Health Care Systems Mgt. (16 weeks)	1
3	NURS	4603	Health Prom. & Teaching (8 weeks)	1
3	NURS	4903	Dimensions in Professional Practice (8 weeks)	1

**SUGGESTED PROGRAM COMPLETION PLAN
FOR FALL ADMISSION**

Fall Semester – 15 hours

Hours				*Notes
4	NURS	3164	Health Assessment (8 weeks)	1
2	NURS	4102	Healthy Aging (8 weeks)	1
3	HLTH	3103	Pathophysiology (16 weeks)	1
3	HLTH	4103	Research Health Sciences (8 weeks)	1
3	NURS	4203	Nursing Information Systems (8 weeks)	1

Spring Semester – 17 hours

Hours				*Notes
6	NURS	4656	Community as Client (16 weeks)	1
5	NURS	4705	Health Care Systems Mgt. (16 weeks)	1
3	NURS	4133	Professional Perspectives (8 weeks)	1
3	NURS	4603	Health Promotion and Teaching (8 weeks)	1

Summer I – 4 hours

Hours				*Notes
4	NURS	4234	Nursing Concentration (10 wks)	1

Summer II – 6 hours

Hours				*Notes
3	NURS	4303	Leadership and Management in Professional Nursing	1
3	NURS	4903	Dimensions in Professional Practice	1

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 18 hours of general education courses, 15 hours of science courses, and three hours of prerequisite courses with 52 hours of professional courses in dental and dental hygiene sciences. 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 UA Fort Smith.
2. Submit transcripts from all other college(s) 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 grade point average 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 (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

JOB OPPORTUNITIES

Private Dental Practices
 Dental Supply and Product Companies
 Department of Health/Public Health
 Correctional Facilities
 Insurance Companies

DEGREE REQUIREMENTS

Prerequisites - 17 hours

Hours			*Notes
3	CHEM 1303	Chemical Principles	
3	MATH 1403	College Algebra or higher	
4	BIOL 1463/1461	Microbiology and Immunology/Lab	
4	BIOL 1523/1521	Anatomy and Physiology I/Lab	
3	SOCI 2753	Introduction to Sociology	

First Semester - 17 hours

Hours			*Notes
3	DHYG 1103	Pre-Clinical Dental Hygiene Theory	1
2	DHYG 1202	Pre-Clinical Dental Hygiene	1
3	DHYG 1313	Radiology	1
2	DHYG 1412	Oral Embryology and Histology	1
2	DHYG 1432	Head and Neck Anatomy	1
1	DHYG 1111	Dental Anatomy and Occlusion	1
4	BIOL 1533/1531	Anatomy and Physiology II/Lab	

Second Semester – 14 hours

Hours			*Notes
3	DHYG 1113	Clinic I Theory	1
3	DHYG 1213	Dental Hygiene Clinic I	1
3	DHYG 1443	Pharmacology	1
3	DHYG 1453	General and Oral Pathology	1
2	DHYG 1212	Periodontology I	1

Third Semester (Summer I) – 6 hours

Hours			*Notes
3	ENGL 1203	Freshman English I	
3	ITA 1003	Computer Applications for the Knowledge Worker or	

ITA 1051 Computer - Word Processing
(select two electives from ITA
1101, ITA 1201, or ITA 1251)

Fourth Semester (Summer II) - 9 hours

Hours			*Notes
3	PSYC 1163	General Psychology	
3	ENGL 1213	Freshman English II	
3	SPCH 1203	Introduction to Speech Communication	

Fifth Semester - 14 hours

Hours			*Notes
2	DHYG 2122	Clinic II Theory	1
4	DHYG 2224	Dental Hygiene Clinic II	1
3	DHYG 2463	Dental Materials	1
1	DHYG 2311	Periodontology II	1
2	DHYG 2512	Local Anesthesia and Nitrous Oxide	1
2	DHYG 2372	Dental Nutrition	1

Sixth Semester - 11 hours

Hours			*Notes
2	DHYG 2132	Clinic Theory III	1
4	DHYG 2234	Dental Hygiene Clinic III	1
2	DHYG 2522	Ethics and Practice Management	1
3	DHYG 2533	Community Dentistry and Dental Health Education	1

88 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.

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
<hr/>		
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.

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 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.

JOB OPPORTUNITIES

Acute-Care Hospitals	Outpatient Hospitals
Nursing Homes	Rehabilitation Hospitals
Psychiatric Hospitals	Home Health Agencies
Clinics	Physicians' Offices

DEGREE REQUIREMENTS

Prerequisites - 7 hours

Hours			*Notes
4	BIOL 1523/1521	Anatomy and Physiology I/Lab	1
3	CHEM 1303	Chemical Principles or higher chemistry course	

First Semester - 15 hours

Hours			*Notes
8	ADN 1508	Nursing Fundamentals	1 & 2
4	BIOL 1533/1531	Anatomy and Physiology II/Lab	1
3	MATH 1403	College Algebra or higher	

Second Semester – 14 hours

Hours			*Notes
10	ADN 151A	Adult Medical/Surgical I	1 & 2
4	BIOL 1463/1461	Microbiology and Immunology/Lab or higher microbiology/lab course	1

Third Semester – 18 hours

Hours			*Notes
9	ADN 2719	Maternal, Child & Mental Health	1
3	ENGL 1203	Freshman English I	
3	PSYC 1163	General Psychology	
3	SOCI 2753	Introduction to Sociology or	
	ANTH 2803	Cultural Anthropology	

Fourth Semester - 18 hours

Hours			*Notes
9	ADN 2729	Advanced Adult Medical/Surgical II	1
3	ADN 2773	Client Care Management	1
3	ENGL 1213	Freshman English II	
3	PSYC 2963	Developmental Psychology: A Life Span	

72 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation requirements section of catalog.
2. LPN students who are admitted to the AND 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. Paramedic students who are admitted to the ADN program will take ADN 155A Nursing Technology Bridge instead of ADN 1508 and ADN 151A, with eight hours awarded for NURS 1508 after completion of ADN 155A. LPN and paramedic students must complete the following courses before enrollment in ADN 154A or ADN 155A: 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. LPN and paramedic students should consult with the College of Health Sciences coordinator of academic support services for information related to the transition course for the associate degree nursing program. LPN students must be admitted to the associate degree nursing program and successfully complete ADN 154A Nursing Technology Transition prior to enrolling in ADN 2719. Paramedic students must be admitted into the associate degree nursing program and successfully complete ADN 155A nursing Technology Bridge prior to enrolling in AND 2719.

Practical Nursing (PN)

TECHNICAL CERTIFICATE

This certificate program begins in August and ends in July. 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. 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.

ADMISSION REQUIREMENTS

1. Complete admission requirements to enter UA Fort Smith.
2. Submit a copy of high school diploma or GED.
3. Submit official transcripts from any college(s) previously attended.
4. 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.
5. Obtain a minimum composite percentile score at the 60th percentile on the NLN Pre-Admission Exam (PAX-PN).
6. Students admitted into the PN 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

JOB OPPORTUNITIES

Acute-Care Hospitals	Outpatient Hospitals
Clinics Physicians' Offices	
Home Health Agencies	Psychiatric Hospitals
Nursing Homes	Rehabilitation Hospitals

CERTIFICATE REQUIREMENTS

First Semester - 24 hours

Hours

10 LPN 118A Fundamentals I (8 wks)

4 BIOL 1433/1431 Basic Anatomy
and Physiology/Lab

10 LPN 119A Fundamentals II (8 wks)

Second Semester - 23 hours

Hours

10 LPN 121A Medical/Surgical I (8 wks)

10 LPN 122A Medical/Surgical II (8 wks)

3 HLTH 1473 Medical Terminology

Summer Term - 14 hours

Hours

14 LPN 123E Medical/Surgical III with Specialities

61 Total Hours

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

ASSOCIATE DEGREE REQUIREMENTS

Prerequisites - 13 hours

Hours	*Notes
3 ENGL 1203 Freshman English I	
3 MATH 1403 College Algebra or higher	
3 CHEM 1303 Chemical Principles	1
4 BIOL 1523/1521 Anatomy and Physiology I/Lab	1

First Semester (Fall I) - 14 hours

Hours	*Notes
4 RADT 1104 Introduction to Radiography	1
2 RADT 1112 Radiographic Procedures I	1
4 RADT 1124 Clinical Education I	1
4 BIOL 1533/1531 Anatomy and Physiology II/Lab	1

Second Semester (Spring I) - 13 hours

Hours	*Notes
2 RADT 1202 Radiographic Exposure I	1
2 RADT 1212 Radiographic Procedures II	1
4 RADT 1224 Clinical Education II	1
2 RADT 1232 Radiation Physics	1
3 HLTH 1473 Medical Terminology	1

Third Semester (Summer I) (10 Weeks) - 7 hours

Hours	*Notes
2 RADT 1302 Radiographic Exposure II	1
2 RADT 1312 Radiographic Procedures III	1
3 RADT 1323 Clinical Education III	1

Fourth Semester (Fall II) -14 hours

Hours	*Notes
2 RADT 2412 Radiographic Procedures IV	1
4 RADT 2424 Clinical Education IV	1
2 RADT 2432 Principles of Radiation Biology/Protection	1
3 PSYC 1163 General Psychology or SOCI 2753 Introduction to Sociology	
3 ENGL 1213 Freshman English II	

Fifth Semester (Spring II) – 11 hours

Hours	*Notes
2 RADT 2502 Imaging Equipment	1
2 RADT 2512 Radiographic Procedures V	1
4 RADT 2524 Clinical Education V	1
3 ITA 1003 Computer Applications for the Knowledge Worker or ITA 1051 Computer - Word Processing (select two electives from ITA 1101, ITA 1201, or ITA 1251)	

Sixth Semester (Summer I) (10 Weeks) – 5 hours

Hours	*Notes
1 RADT 2601 Radiographic Pathology	1
1 RADT 2611 Senior Seminar	1
3 RADT 2623 Clinical Education VI	1

77 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.

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 above 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 UA Fort Smith.
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 in to 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

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

DEGREE REQUIREMENTS

First Semester - 15 hours

Hours			*Notes
3	ENGL 1203	Freshman English I	
3	MATH 1403	College Algebra or higher	
3	CHEM 1303	Chemical Principles	1
3	PSYC 1163	General Psychology	
3	ITA 1003	Computer Applications for the Knowledge Worker or	
	ITA 1051	Computer - Word Processing (select two electives from ITA 1101, ITA 1201, or ITA 1251)	

Second Semester - 14 hours

Hours			*Notes
4	BIOL 1463/1461	Microbiology and Immunology/Lab	1
4	BIOL 1523/1521	Anatomy and Physiology I/Lab	1
3	HLTH 1473	Medical Terminology	1
3	ENGL 1213	Freshman English II	

Third Semester (Summer) - 4 hours

4	BIOL 1533/1531	Anatomy and Physiology II/Lab	1
---	----------------	-------------------------------	---

Fourth Semester - 16 hours

Hours			*Notes
6	SUR 1526	Surgical Technology Procedures I	1
10	SUR 153A	Surgical Technology Practicum I	1

Fifth Semester - 16 hours

Hours			*Notes
6	SUR 1546	Surgical Technology Procedures II	1
10	SUR 155A	Surgical Technology Practicum II	1

65 Total Hours

*Notes:

1. These courses are used to determine major courses in residency, see Graduation Requirements section of catalog.



COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

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.

Majors and Degrees Offered

The College of Humanities and Social Sciences offers the degrees, majors, and minors as detailed below.

BACHELOR OF ARTS (BA) DEGREE

- History
- Studio Art
- Music
- Theatre
- 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

MINORS

- Anthropology
- Criminal Justice
- Geography*
- Historical Interpretation
- History
- Music
- Philosophy
- Political Science
- Psychology
- Sociology
- Studio Art
- Theatre

* Pending approval by UA System and AHECB



TECHNICAL CERTIFICATE

- Crime Scene Investigation
- Law Enforcement Administration

CERTIFICATE OF PROFICIENCY

- Crime Scene Investigation
- Law Enforcement Administration

Anthropology

ANTHROPOLOGY MINOR

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

UA Fort Smith 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

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
- 3 *HIST 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 CJI 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 UA Fort Smith.

60 Total Hours

**CRIME SCENE INVESTIGATION
TECHNICAL CERTIFICATE**

UA Fort Smith Requirements – 6 Hours

Hours

3	ENGL	1203	Freshman English I
3	MATH	1203	Intermediate Algebra or equivalent or higher

Criminal Justice Institute Requirements – 30 Hours

Hours

9	CJIC	1019	Crime Scene TCP
6	CJIC	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*

* May be substituted with computer courses offered by UA Fort Smith.

36 Total Hours

**CRIME SCENE INVESTIGATION
CERTIFICATE OF PROFICIENCY**

Hours

3	ENGL	1203	Freshman English I
9	CJIC	1019	Crime Scene TCP
6	CJI	1216	Law Enforcement Training Academy

18 Total Hours

Criminal Justice

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 coursework 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

Freshman Year Fall Semester – 16 Hours

Hours			*Notes
3	English composition requirement		1
3	SOCI	2753 Introduction to Sociology	
3	CJ	1013 Introduction to the Criminal Justice System	2
4	CJ	2524 Basic Forensic Graphics	2
3	ITA	1003 Computer Apps for the Knowledge Worker	

Freshman Year Spring Semester – 16 hours

Hours			*Notes
3	English composition requirement		1
4	Lab science requirement		1
3	CJ	2313 Correctional Systems and Practices	2
3	CJ	2373 Police Systems and Practices	2
3	LEGL	1043 Introduction to Law	

Sophomore Year Fall Semester – 15 hours

Hours			*Notes
3	MATH	1403 College Algebra	
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

Junior Year Fall Semester – 15 hours

Hours		*Notes
3	Criminal Justice elective	2 & 3
3	Criminal Justice elective	2 & 3
3	Criminal Justice elective	2 & 3
3	STAT 2503 Probability and Statistics	
3	Upper-level elective	3

Junior Year Spring Semester – 15 hours

Hours		*Notes
3	Fine Arts/Humanities requirement	1
3	Criminal Justice elective	2 & 3
3	Criminal Justice elective	2 & 3
3	Upper-level elective	3
3	Upper-level elective	3

Senior Year Fall Semester – 16 hours

Hours		*Notes
4	Lab science requirement	1
3	CJ 4113 Professionalism and Ethics in Criminal Justice	2
3	Criminal Justice elective	2 & 3
3	Criminal Justice elective	2 & 3
3	Upper-level history/government elective	3

Senior Year Spring Semester – 16 hours

Hours		*Notes
3	Fine Arts/Humanities requirement	1
3	Criminal Justice elective	2 & 3
3	Criminal Justice elective	2 & 3
4	World language 4	
3	Upper-level humanities elective	3

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

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:

CJ	1013	Introduction to the Criminal Justice System
CJ	1253	Criminology
CJ	2603	Courts and Criminal Procedure

Select 9 hours:

CJ	3013	Organized Crime
CJ	3213	Criminal Investigations
CJ	3363	Violent Offenders
CJ	3413	Psychology and Crime
CJ	390V	Criminal Justice: Special Topics
CJ	3913	Drugs and Crime
CJ	3923	Victimology
CJ	4113	Professionalism and Ethics in Criminal Justice
CJ	4833	Administrative Concepts in Law Enforcement
CJ	4953	Crime and Film

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

Freshman Year Fall Semester – 16 Hours

Hours		
3	English composition requirement	1
3	SOCI 2753 Introduction to Sociology	
3	CJ 1013 Introduction to the Criminal Justice System	2
4	CJ 2524 Basic Forensic Graphics	2
3	ITA 1003 Computer Apps for the Knowledge Worker	

Freshman Year Spring Semester – 16 hours

Hours		*Notes
3	English composition requirement	1
4	Science requirement	1
3	CJ 2313 Correctional Systems and Practices	2
3	CJ 2373 Police Systems and Practices	2
3	LEGL 1043 Introduction to Law	

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.

Geography

GEOGRAPHY MINOR

The minor in geography is pending approval from the University of Arkansas System Board of Trustees and the Arkansas Higher Education Coordinating Board.

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 from the following:

GEOG	2753	World Regional Geography
GEOG	2763	Physical Geography
GEOG	2773	Human Geography
CADD	1004	Introduction to Geographic Information Systems

Select nine hours from the following:

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

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

Sophomore Year Fall Semester – 15 Hours

Hours		*Notes
3	GRDS 2313 Graphic Design	2
3	GRDS 2243 Digital Illustration	2
3	Lower-level Art History course	2
3	Graphic Design lower-level elective	2 & 3
3	Social sciences requirement	1

Sophomore Year Spring Semester – 15 Hours

Hours		*Notes
3	GRDS 2253 Web Design I	2
3	GRDS 2103 Advanced Typography	2
3	ART 3863 History of Graphic Design	2
3	GRDS 2343 Print & Publication Design	2
3	MATH 1303 College Mathematics or MATH 1403 College Algebra or higher MATH	

Junior Year Fall Semester – 16 Hours

Hours		*Notes
3	ART 3313 Advanced Drawing	
3	Upper-level general education elective	4
3	GRDS 3403 Advertising Design I	2
3	GRDS 3273 Motion Design	2
4	Lab science requirement	1

Junior Year Spring Semester – 16 Hours

Hours		*Notes
3	Graphic Design upper-level elective	2 & 5
3	GRDS 3323 Production Management/ Prepress	2
3	GRDS 3603 Packaging Design	2
3	History/Government requirement	1
4	Lab science requirement	1

Senior Year Fall Semester – 15 Hours

Hours		*Notes
3	GRDS 4313 Identity Design	2
3	Humanities requirement	1
3	Social Sciences requirement	1
3	Graphic Design upper-level elective	2 & 5
3	GRDS 4323 Graphic Design Business Practices	2

Senior Year Spring Semester – 16 Hours

Hours		*Notes
4	GRDS 4914 Graphic Design Senior Thesis	2
3	GRDS 4923 Graphic Design Senior Seminar	2
3	Upper-level general education elective	4
3	Upper-level general education elective	4

3	ART 3523 History of American Art or ART 4203 Modern European Art	2
---	---	---

124 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 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). 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**Freshman Year Fall Semester – 16 hours**

Hours		*Notes
3	English composition requirement	1
3	Mathematics requirement	1
4	Lab science requirement	1
3	HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500	2

3 HIST 2753 US History I or
 HIST 2763 US History II 2

Freshman Year Spring Semester – 16 hours

Hours *Notes
 3 English composition requirement 1
 3 HIST 1123 Civilizations of the
 World to 1500 or
 HIST 1133 Civilizations of the
 World since 1500 2
 3 HIST 2753 US History I or
 HIST 2763 US History II 2
 3 Fine Arts/Humanities/
 Social Sciences requirement 1
 4 Lab science requirement 1

Sophomore Year Fall Semester – 16 hours

Hours *Notes
 3 Fine Arts/Humanities/
 Social Sciences requirement 1
 4 World language requirement 6
 3 POLS 2753 American National Government
 3 SPCH 1203 Introduction to Speech
 Communication
 3 Fine Arts/Humanities/
 Social Sciences requirement 1

Sophomore Year Spring Semester – 16 hours

Hours *Notes
 3 Fine Arts/Humanities/
 Social Sciences requirement 1
 4 World language requirement 6
 3 History requirement 2 & 3
 3 Historical Interpretation concentration
 requirement or minor requirement 4 & 5
 3 Historical Interpretation
 concentration requirement
 or minor requirement 4 & 5

Junior Year Fall Semester - 15 hours

Hours *Notes
 3 History requirement 2 & 3
 3 History requirement 2 & 3
 3 World language requirement 6
 3 Historical Interpretation concentration
 requirement or minor requirement 4 & 5
 3 Historical Interpretation concentration
 requirement or minor requirement 4 & 5

Junior Year Spring Semester – 15 hours

Hours *Notes
 3 History requirement 2 & 3
 3 History requirement 2 & 3
 3 Historical Interpretation concentration
 requirement or minor requirement 4 & 5
 3 Historical Interpretation concentration
 requirement or minor requirement 4 & 5
 3 Minor requirement or additional degree
 requirement 4 & 5

Senior Year Fall Semester – 15 hours

Hours *Notes
 3 History requirement 2 & 3
 3 History elective or Historical Interpretation
 concentration requirement 2,3,&5
 3 HIST 3803 Methods of Historical
 Research 2
 3 Minor requirement or additional degree
 requirement 4 & 5
 3 Minor requirement or additional degree
 requirement 4 & 5

Senior Year Spring Semester - 15 hours

Hours *Notes
 3 HIST 4803 Seminar in U.S. History 2
 3 History elective or Historical Interpretation
 concentration requirement 2,3,5,&7
 3 Minor requirement or additional degree
 requirement 4 & 5
 3 Minor requirement or additional degree
 requirement 4 & 5
 3 Minor requirement or additional degree
 requirement 4 & 5

124 Total Hours

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.
6. World language requirement 11 hours. Must complete through Intermediate I of a world language.
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

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 from the following:

HIST	3400 or 4100 series
------	---------------------

Select six hours of World History from the following:

HIST	3000, 3100, 3200, 3300, 3500, 3600, 4200, or 4300 series.
------	---

HISTORICAL INTERPRETATION MINOR

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
HIST	4503	Introduction to Public History

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

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English composition requirement	1 & 5
3 MATH 1403 College Algebra or higher	1 & 5
3 HIST 2753/2763 US History I/II	2
3 SPCH 1203 Introduction to Speech Communication	5
4 Lab science requirement	1

Freshman Year Spring Semester – 17 hours

Hours	*Notes
3 English composition requirement	1 & 5
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 HIST 2753/2763 US History I/II	2
2 FORL 1322 Beginning Conversational Spanish I	
2 FORL 1332 Beginning Conversational Spanish II	
3 Social Studies/History requirement	2 & 3
1 PHYE requirement	4

Sophomore Year Fall Semester – 16 hours

Hours	*Notes
3 EDUC 2753 Introduction to Education	5
4 Lab science requirement	1
3 POLS 2753 American National Government	

3	Fine Arts/Humanities/ Social Sciences requirement	1
3	HIST 1123 Civilizations of the World to 1500	2

3	Social Studies/History requirement	2 & 3
3	Social Studies/History requirement	2 & 3
3	Social Studies/History requirement	2 & 3
3	HIST 4103 Teaching Social Studies in the Secondary School	2
3	HIST 4803 Seminar in US History	2

Sophomore Year Spring Semester – 18 hours

Hours		*Notes
2	EDUC 3002 Introduction to Educational Technology	5
3	Social Studies/History requirement	2 & 3
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	HIST 1133 Civilizations of the World since 1500	2
3	POLS 2853 State and Local Government	2
1	PHYE requirement Admission to College of Education, Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.	4

Junior Year Fall Semester – 16 hours

Hours		*Notes
3	EDUC 3013 Human Development and Learning	6
2	EDUC 3112 Literacy Development in the Content Area	6
2	EDUC 3222 Practicum I	6
3	Social Studies/History requirement	2 & 3
3	Social Studies/History requirement	2 & 3
3	HIST 4153 History of Arkansas	2

Junior Year Spring Semester – 17 hours

Hours		*Notes
2	EDUC 3612 Classroom and Behavioral Management	6
1	EDUC 4211 Practicum II	6
2	SPED 3022 Survey of Diverse Populations	6
3	Social Studies/History requirement	2 & 3
3	Social Studies/History requirement	2 & 3
3	Social Studies/History requirement	2 & 3
3	HIST 3803 Methods of Historical Research	2

Senior Year Fall Semester – 17 hours

Hours		*Notes
2	EDUC 4222 Assessment	6

Senior Year Spring Semester – 12 hours

Hours		*Notes
2	EDUC 4802 Seminar in Education	6
10	EDUC 490A Teaching in the Secondary Schools	6

129 Total Hours

At least 45 of the hours must be upper-level

*Notes

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, GEOG 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, 1841, 2571, 2841, 2853, or 2953.
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.

The department requires all history courses counted toward fulfillment of the degree requirements to be passed with a “C” or better.

Law Enforcement Administration

UA Fort Smith 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

English Composition – 6 hours

Hours

- 3 ENGL 1203 Freshman English I
3 ENGL 1213 Freshman English II

Mathematics – 3 hours

Hours

- 3 MATH 1203 Intermediate Algebra or equivalent or higher math

Computer – 3 hours

Hours

- 3 ITA 1003 Computer Applications for the Knowledge Worker

General Education – 15 hours

Hours

- 3 PSYC 1163 General Psychology
3 SOCI 2753 Introduction to Sociology
3 POLS 2753 American National Government
3 SPCH 1203 Introduction to Speech Communication
3 LEGL 1043 Introduction to Law

Criminal Justice Institute – 36 hours

Hours

- 9 CJIL 1019 Law Enforcement Supervision
6 CJI 1216 Law Enforcement Training Academy

- 3 CJIL 1403 Law Enforcement Administration and Management
3 CJIL 1423 Integrity in Law Enforcement
3 CJIL 2313 Legal Aspects of Law Enforcement
3 CJIL 2323 Varied Principles of Law Enforcement
3 CJIL 2333 DWI Detection and Field Tests
3 CJIL 2343 Law Enforcement Communications
3 CJIL 2633 Crisis Negotiations

63 Total Hours

TECHNICAL CERTIFICATE

UA Fort Smith Requirements – 12 hours

Hours

- 3 ENGL 1203 Freshman English I
3 MATH 1203 Intermediate Algebra or equivalents or higher math
3 SPCH 1203 Introduction to Speech Communication
3 ITA 1003 Computer Applications for the Knowledge Worker

Criminal Justice Institute Requirements – 21 hours

Hours

- 9 CJIL 1019 Law Enforcement Supervision
6 CJI 1216 Law Enforcement Training Academy
3 CJIL 1403 Law Enforcement Administration and Management
3 CJIL 1423 Integrity in Law Enforcement

33 Total Hours

CERTIFICATE OF PROFICIENCY

Certificate Requirements

Hours

- 3 ENGL 1203 Freshman English I
9 CJIL 1019 Law Enforcement Supervision
6 CJIL 1216 Law Enforcement Training Academy

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

Music majors pursuing the Bachelor of Arts in Music may specialize in one of three areas: jazz studies, performance training, vocal or instrumental, including piano; or an individualized option. The different options are designed to prepare students for graduate school and/or careers in specific fields of music or to focus their music study in a direction of their own choosing with the guidance and approval of a faculty member.

BACHELOR OF ARTS (BA) DEGREE

Freshman Year Fall Semester – 15 (16) hours

Hours		*Notes
3	English composition requirement	1
3	Mathematics requirement	1
2	MUSI 1322 Music Technology	2
1	MUSI 1201 Sight Singing & Ear Training I	2
3	MUSI 1223 Music Theory I	2
1	MUSR 14_1 Large Ensemble	2
2	MUS_ 1252 Private Instruction	2
0	MUSI 1000 Recital Attendance	2
1	MUSC 1161 Class Piano	4
	(for non-piano majors)	

Freshman Year Spring Semester – 16 (17) hours

Hours		*Notes
3	English composition requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1

3	Fine Arts/Humanities/ Social Sciences requirement	1
1	MUSI 1211 Sight Singing & Ear Training II	2
3	MUSI 1233 Music Theory II	2
1	MUSR 14_1 Large Ensemble	2
2	MUS_ 1252 Private Instruction	2
0	MUSI 1000 Recital Attendance	2
1	MUSC 1171 Class Piano	4
	(for non-piano majors)	

Sophomore Year Fall Semester – 15 (16) hours

Hours		*Notes
4	Lab science requirement	1
4	World language requirement	5
1	MUSI 2781 Sight Singing & Ear Training III	2
3	MUSI 2803 Music Theory III	2
1	MUSR 14_1 Large Ensemble	2
2	MUS_ 1252 Private Instruction	2
0	MUSI 1000 Recital Attendance	2
1	MUSC 2161 Class Piano	4
	(for non-piano majors)	

Sophomore Year Spring Semester – 15 (16) hours

Hours		*Notes
3	Fine Arts/Humanities/ Social Sciences requirement	1
4	World language requirement	5
1	Music concentration requirement	2 & 3
1	MUSI 2791 Sight Singing & Ear Training IV	2
3	MUSI 2813 Music Theory IV	2
1	MUSR 14_1 Large Ensemble	2
2	MUS_ 1252 Private Instruction	2
0	MUSI 1000 Recital Attendance	2
1	MUSI 2171 Class Piano	4
	(for non-piano majors)	

Junior Year Fall Semester – 18 hours

Hours		*Notes
3	PHIL 3203 Ethics Across the Disciplines	
3	SPCH 1203 Introduction to Speech Communication	
3	MUSI 3503 Music History I	2
3	Music concentration requirement	2 & 3
3	Music concentration requirement	2 & 3
3	Music concentration requirement	2 & 3
0	MUSI 3000 Recital Attendance	2

Junior Year Spring Semester – 15 hours

Hours	*Notes
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 MUSI 3513 Music History II	2
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
0 MUSI 3000 Recital Attendance	2

Senior Year Fall Semester – 15 hours

Hours	*Notes
3 History/Government requirement	1
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
0 MUSI 3000 Recital Attendance	2

Senior Year Spring Semester – 15 hours

Hours	*Notes
4 Lab science requirement	1
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
3 Music concentration requirement	2 & 3
2 Music concentration requirement	2 & 3
0 MUSI 3000 Recital Attendance	2

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, excluding hours as electives, are used to determine major courses in residency, see Graduation Requirements. The courses in the music concentrations listed below that are courses in the major are the music courses.
3. Music concentration requirements, 42 hours. Select one of the options below in consultation with faculty advisor. A minor is also required. Electives must be chosen to ensure completion of 45 upper-level hours required for graduation.
4. 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).
5. World language requirement eight hours. Must complete through Beginning II of a world language.

Jazz Studies Option

3 MUSI 3663	Jazz History and Style
1 MUSC 2861	Fundamentals of Improvisation I
1 MUSC 2871	Fundamentals of Improvisation II
2 MUSI 3202	Commercial Music Arranging
8 MUS_ 3252	Private Instruction (4 semesters)
2 MUSR 3201	Jazz Lab Ensemble (2 semesters)
0 MUSI 4030	Senior Recital

25 elective hours (21 must be upper-level and none may be music courses. A minor is required; follow respective minor requirements.)

Performance, Instrumental Option

3 MUSI 4443	Survey of American Music
1 MUSI 3841	Brass Instruments or
3851	Lower Woodwinds or
4861	Upper Woodwinds or
2821	Percussion Instruments
8 MUS_ 3252	Private Instruction (4 semesters)
4 MUSI 3351	Instrumental Ensemble (4 semesters)
0 MUSI 4030	Senior Recital

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 Option

3 MUSI 4443	Survey of American Music
1 MUSI 2181	Diction for Singers I
1 MUSI 3181	Diction for Singers II
2 MUSI 3372	Vocal Pedagogy
2 MUSI 3862	Vocal Performance Literature
8 MUSV 3252	Private Instruction (four semesters)
2 MUSR 1451/3451	Vocal Jazz or other small ensemble (two semesters)
0 MUSI 4030	Senior Recital

23 elective hours (20 must be upper-level and none may be music courses. A minor is required; follow respective minor requirements.)

Performance, Piano Option

3 MUSI 4443	Survey of American Music
2 MUSI 3352	Piano Pedagogy
2 MUSI 3852	Piano Performance Literature
8 MUSP 3252	Private Instruction (4 semesters)
2 MUSR 3471	Accompanying and Chamber Music (two semesters)

0 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.)

2 MUS_ 1252 Private Instruction 2
 0 MUSI 1000 Recital Attendance 2
 1 MUSC 1161 Class Piano 7
 (for non-piano majors)

Individualized Program Option

3 MUSI 4443 Survey of American Music
 39 elective hours (33 must be upper-level and only 14 hours may be music courses to include four hours of small ensembles. A minor is required; follow respective minor requirements.)

MUSIC MINOR

The minor in Music requires 23 hours of coursework. An audition is required for admission to the minor in music.

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 two of the following courses (six hours):

MUSI 3503 Music History I
 MUSI 3513 Music History II
 MUSI 3663 Jazz History and Styles
 MUSI 4443 Survey of American Music

Music Education Instrumental Music P-8 and 7-12

BACHELOR OF MUSIC EDUCATION (BME) DEGREE

Freshman Year Fall Semester – 17 (18) hours

Hours		*Notes
3	English composition requirement	1 & 4
3	Mathematics requirement	1 & 4
3	History/Government requirement	1
1	PHYE activity course	3
1	MUSI 1201 Sight Singing & Ear Training I	2
3	MUSI 1223 Music Theory I	2
1	MUSR 1441 Symphonic Band	2

Freshman Year Spring Semester – 15 (16) hours

Hours		*Notes
3	English composition requirement	1 & 4
3	SPCH 1203 Introduction to Speech Communication	4
1	MUSI 1211 Sight Singing & Ear Training II	2
3	MUSI 1233 Music Theory II	2
2	MUSI 1322 Music Technology	4
1	MUSR 1441 Symphonic Band	2
2	MUS_ 1252 Private Instruction	2
0	MUSI 1000 Recital Attendance	2
1	MUSC 1171 Class Piano	7
	(for non-piano majors)	

Summer Term(s) – 6 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

Hours		*Notes
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Fall Semester – 18 (19) hours

Hours		*Notes
4	Lab science requirement	1
3	EDUC 2753 Introduction to Education	4
1	PHYE activity course	3
2	FORL 1322 Beg. Conversational Spanish I	
1	MUSI 2781 Sight Singing & Ear Training III	2
3	MUSI 2803 Music Theory III	2
1	MUSI 2821 Percussion Instruments	2 & 5
1	MUSR 1441 Symphonic Band	2
2	MUS_ 1252 Private Instruction	2
0	MUSI 1000 Recital Attendance	2
1	MUSC 2161 Class Piano	7
	(for non-piano majors)	

Sophomore Year Spring Semester – 16 (17) hours

Hours		*Notes
3	Fine Arts/Humanities/ Social Sciences requirement	1

3		Fine Arts/Humanities/ Social Sciences requirement	1
2	FORL 1332	Beg. Conversational Spanish II	
1	MUSI 2791	Sight Singing & Ear Training IV	2
3	MUSI 2813	Music Theory IV	2
1	MUSI 2851	Stringed Instruments and Vocal Pedagogy for Instrumentalists	2 & 5
1	MUSR 1441	Symphonic Band	2
2	MUS_ 1252	Private Instruction	2
0	MUSI 1000	Recital Attendance	2
1	MUSI 2171	Class Piano (for non-piano majors)	7

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

Hours			*Notes
3	EDUC 3013	Human Development and Learning	6
2	MUSI 3102	Orchestration and Arranging	2
3	MUSI 3503	Music History I	2
2	MUSI 3822	Principles of Conducting	2
1	MUSI 3841	Woodwinds I	2 & 5
3	MUSI 3833	Elementary Music Methods and Materials	2
1	MUSR 3441	Symphonic Band	2
2	MUS_ 3252	Private Instruction	2
0	MUSI 3000	Recital Attendance	2

Junior Year Spring Semester – 17 hours

Hours			*Notes
4	Lab science requirement		1
2	EDUC 3222	Practicum I	6
3	MUSI 3513	Music History II	2
2	MUSI 3852	Conducting II: Instrumental	2
2	MUSI 4532	Form and Analysis	2
1	MUSI 3851	Woodwinds II	2 & 5
1	MUSR 3441	Symphonic Band	2
2	MUS_ 3252	Private Instruction	2
0	MUSI 3000	Recital Attendance	2

Senior Year Fall Semester – 15 hours

Hours			*Notes
3	History/Government requirement		1
2	EDUC 3612	Classroom and Behavioral Management	6
1	EDUC 4211	Practicum II	6

2	SPED 3022	Survey of Diverse Populations	6
3	MUSI 4853	Secondary Instrumental Methods and Materials	2
1	MUSI 4861	Brass Instruments	2 & 5
1	MUSR 3441	Symphonic Band	2
2	MUS_ 3252	Private Instruction	2
0	MUSI 3000	Recital Attendance	2

Senior Year Spring Semester – 12 hours

Hours			*Notes
2	EDUC 4802	Seminar in Education	6
10	EDUC 480A	Teaching in the Elementary and Secondary Schools	6
0	MUSI 4030	Senior Recital	2

133 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, 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. 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).

Music Education

Vocal Music P-8 and 7-12

BACHELOR OF MUSIC EDUCATION (BME) DEGREE

Freshman Year Fall Semester – 17 (18) hours

Hours	*Notes
3 English composition requirement	1 & 4
3 Mathematics requirement	1 & 4
3 History/Government requirement	1
1 PHYE activity course	3
1 MUSI 1201 Sight Singing & Ear Training I	2
3 MUSI 1223 Music Theory I	2
1 MUSR 1421 Chorale or 1461 Women's Chorus	2
2 MUSV 1252 Private Voice Instruction	2
0 MUSI 1000 Recital Attendance	2
1 MUSC 1161 Class Piano (for non-piano majors)	6

Freshman Year Spring Semester – 15 (16) hours

Hours	*Notes
3 English composition requirement	1 & 4
3 SPCH 1203 Introduction to Speech Communication	4
1 MUSI 1211 Sight Singing & Ear Training II	2
3 MUSI 1233 Music Theory II	2
2 MUSI 1322 Music Technology	4
1 MUSR 1421 Chorale or 1461 Women's Chorus	2
2 MUSV 1252 Private Voice Instruction	2
0 MUSI 1000 Recital Attendance	2
1 MUSC 1171 Class Piano (for non-piano majors)	6

Summer Term(s) – 6 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

Hours	*Notes
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Fall Semester – 17 (18) hours

Hours	*Notes
4 Lab science requirement	1
3 EDUC 2753 Introduction to Education	4
2 FORL 1322 Beg. Conversational Spanish I	
1 MUSI 2781 Sight Singing & Ear Training III	2
3 MUSI 2803 Music Theory III	2
1 MUSI 2181 Diction for Singers I	2
1 MUSR 1421 Chorale or 1461 Women's Chorus	2
2 MUSV 1252 Private Voice Instruction	2
0 MUSI 1000 Recital Attendance	2
1 MUSC 2161 Class Piano (for non-piano majors)	6

Sophomore Year Spring Semester – 17 (18) hours

Hours	*Notes
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
2 FORL 1332 Beg. Conversational Spanish II	
1 MUSI 3181 Diction for Singers II	2
1 MUSI 2841 Instrumental Concepts for Vocalists	2
1 MUSI 2791 Sight Singing & Ear Training IV	2
3 MUSI 2813 Music Theory IV	2
1 MUSR 1421 Chorale or 1461 Women's Chorus	2
2 MUSV 1252 Private Voice Instruction	2
0 MUSI 1000 Recital Attendance	2
1 MUSI 2171 Class Piano (for non-piano majors)	6

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

Hours	*Notes
3 EDUC 3013 Human Development and Learning	5
2 MUSI 3102 Orchestration and Arranging	2
3 MUSI 3503 Music History I	2
2 MUSI 3822 Principles of Conducting	2
1 PHYE activity course	3

3	MUSI	3833	Elementary Music Methods and Materials	2
1	MUSR	3421	Chorale or	
		3461	Women's Chorus	2
2	MUSV	3252	Private Voice Instruction	2
0	MUSI	3000	Recital Attendance	2

Junior Year Spring Semester – 15 hours

Hours				*Notes
3	History/Government requirement			1
2	EDUC	3222	Practicum I	5
3	MUSI	3513	Music History II	2
2	MUSI	3842	Conducting II: Vocal	2
2	MUSI	4532	Form and Analysis	2
1	MUSR	3421	Chorale or	
		3461	Women's Chorus	2
2	MUSV	3252	Private Voice Instruction	2
0	MUSI	3000	Recital Attendance	2

Senior Year Fall Semester – 17 hours

Hours				*Notes
4	Lab science requirement			1
2	EDUC	3612	Classroom and Behavioral Management	5
1	EDUC	4211	Practicum II	5
2	SPED	3022	Survey of Diverse Populations	5
3	MUSI	4843	Secondary Vocal Methods and Materials	2
2	MUSI	3372	Vocal Pedagogy	2
1	MUSR	3421	Chorale or	
		3461	Women's Chorus	2
2	MUSV	3252	Private Voice Instruction	2
0	MUSI	3000	Recital Attendance	2

Senior Year Spring Semester – 12 hours

Hours				*Notes
2	EDUC	4802	Seminar in Education	5
10	EDUC	480A	Teaching in the Elementary and Secondary Schools	5
0	MUSI	4030	Senior Recital	2

133 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, 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, 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.
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).

Philosophy

PHILOSOPHY MINOR

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.
POLS 3403 Political Philosophy

Political Science

POLITICAL SCIENCE MINOR

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

Freshman Year Fall Semester – 16 hours

Hours	*Notes
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	*Notes
3 English composition requirement	1
4 World language requirement	5
4 Lab science requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 PSYC 2803 History and Systems of Psychology	2

Sophomore Year Fall Semester – 16 hours

Hours	*Notes
3 STAT 2503 Probability and Statistics	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	*Notes
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	*Notes
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	*Notes
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	*Notes
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

Hours	*Notes
3 PSYC 4953 Psychology Capstone	2
3 Psychology requirement	2 & 3
3 Additional degree requirement	4
3 Additional degree requirement	4
3 Additional degree requirement	4

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

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

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 from the following:

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

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

Hours		*Notes
3	English composition requirement	1
3	SPCH 1203 Introduction to Speech Communication	
4	Lab science requirement	1
3	Art foundations	2
3	Art foundations	2

Freshman Year Spring Semester – 16 hours

Hours		*Notes
3	English composition requirement	1
3	Mathematics requirement	1
3	Art foundations	2
3	Art foundations	2
3	Art foundations	2
1	ART 1101 Studio Art Admissions Portfolio	2

Sophomore Year Fall Semester – 15 hours

Hours		*Notes
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	ART 2863 Survey of Art History I	2
3	Lower-level studio art course	2 & 3
3	Lower-level studio art course	2 & 3

Sophomore Year Spring Semester – 16 hours

Hours	*Notes
3 ART 2873 Survey of Art History II	2
3 Upper-level studio art course	2 & 3
3 Upper-level studio art course	2 & 3
4 World language requirement	4
3 Additional degree requirement	5

Junior Year Fall Semester – 16 hours

Hours	*Notes
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Upper-level art history course	2 & 3
3 Upper-level studio art course	2 & 3
4 World language requirement	4
3 Additional degree requirement	5

Junior Year Spring Semester – 16 hours

Hours	*Notes
4 Lab science requirement	1
3 Upper-level studio art course	2 & 3
3 World language requirement	4
3 Additional degree requirement	5
3 Additional degree requirement	5

Senior year Fall Semester – 15 hours

Hours	*Notes
3 Fine Arts/Humanities/ Social/Science requirement	1
3 Upper-level art history requirement	2 & 3
3 Upper-level studio art course	2 & 3
3 Additional degree requirement	5
3 PHIL 3103 Reasoning Across the Disciplines or PHIL 3203 Ethics Across the Disciplines	

Senior Year Spring Semester – 15 hours

Hours	*Notes
3 History/Government requirement	1
3 ART 4953 Studio Art Capstone	2
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5

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

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

Nine hours of Art Foundation courses selected from:

- 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

Six hours selected from:
 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

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

Senior Year Spring Semester – 15 hours

Hours *Notes
 3 THEA requirement 2 & 3
 3 THEA requirement 2 & 3
 3 Additional degree requirement 5
 3 Additional degree requirement 5
 3 Additional degree requirement 5

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.

Theatre

BACHELOR OF ARTS (BA) DEGREE

Freshman Year Fall Semester – 16 hours

Hours *Notes
 3 English composition requirement 1
 3 SPCH 1203 Introduction to Speech Communication
 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 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. 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/Directing 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.

THEATRE MINOR

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.

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.

Majors and Degrees Offered:

The College of Languages and Communication offers the majors and degrees as shown 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

* Pending approval by UA System and AHECB

Creative Writing

CREATIVE WRITING MINOR

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
(may repeated for up to 3 hours)
- ENGL 3143 Special Topics in Creative Writing
(may be 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

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English composition requirement	1
3 Mathematics requirement	1
3 History/Government requirement	1

3 SPCH 1203 Introduction to Speech Communication	
4 Lab science requirement	1

Freshman Year Spring Semester – 16 hours

Hours	*Notes
3 English composition requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts, Humanities/ Social Sciences requirement	1
4 Lab science requirement	1

Sophomore Year Fall Semester – 16 hours

Hours	*Notes
3 ENGL 2033 Cultural Studies	2
3 RHET 3203 Textual Research Methods	2
3 Fine Arts/Humanities/ Social Sciences requirement	1
4 World language requirement	6
3 ENGL 3003 History and Development of the English Language	2

Sophomore Year Spring Semester – 16 hours

Hours	*Notes
3 ENGL 3663 English Grammar	2
3 Core English course	2 & 3
3 Core English course	2 & 3
4 World language requirement	6
3 Additional degree requirement	5

Junior Year Fall Semester – 15 hours

Hours	*Notes
3 English requirement	2 & 4
3 Core English course	2 & 3
3 World language requirement	6
3 PHIL 3103 Reasoning Across the Disciplines or PHIL 3203 Ethics Across the Disciplines	
3 Additional degree requirement	5

Junior Year Spring Semester – 15 hours

Hours	*Notes
3 English requirement	2 & 4
3 English requirement	2 & 4
3 English requirement	2 & 4

3 Additional degree requirement	5
3 Additional degree requirement	5

Senior Year Fall Semester – 15 hours

Hours	*Notes
3 ENGL 4213 Shakespeare	2
3 ENGL 4993 Capstone	
3 English requirement	2 & 4
3 Additional degree requirement	5
3 Additional degree requirement	5

Senior Year Spring Semester – 15 hours

Hours	*Notes
3 ENGL 4203 Chaucer	2
3 English requirement	2 & 4
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5

124 Total Hours

At least 45 hours must be upper-level.

*Notes

- 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.
- 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.
- Core English courses, nine hours. Select three courses from ENGL 3013, 3023, 3033, or 3043.
- 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.
- 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.
- World language requirement 11 hours. Must complete through Intermediate I of a world language.

English with Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE

Freshman Year Fall Semester – 15 hours

Hours	*Notes
3 English composition requirement	1 & 6
4 Lab science requirement	1
3 History/Government requirement	1
4 SPAN 1304 Beginning Spanish I	
1 PHYE program requirement	5

Freshman Year Spring Semester – 16 hours

Hours	*Notes
3 English composition requirement	1 & 6
4 Lab science requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Mathematics requirement	1 & 6
3 SPCH 1203 Introduction to Speech Communication	6

Sophomore Year Fall Semester – 15 hours

Hours	*Notes
3 ENGL 2033 Cultural Studies	2
3 RHET 3203 Textual Research Methods	2
3 EDUC 2753 Introduction to Education	6
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Spring Semester – 17 hours

Hours	*Notes
3 ENGL 3443 Literature of Diverse Cultures	2
3 ENGL 3003 History and Development of the English Language	2
3 Core English course	2 & 3
2 EDUC 3002 Introduction to Educational Technology	6
3 History/Government requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1

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

Hours			*Notes
3	ENGL 3403	Grammar and Language Awareness	2
3		Core English course	2 & 3
3		Core English course	2 & 3
3		English requirement	2 & 4
3		Upper-level elective	

Junior Year Spring Semester – 17 hours

Hours			*Notes
3		English requirement	2 & 4
3		English requirement	2 & 4
3	ENGL 3203	Young Adult Literature or ENGL 3303 Writing and the Teaching of Writing	2
3	EDUC 3013	Human Development and Learning	7
2	EDUC 3222	Practicum I	7
3		Upper-level elective	

Senior Year Fall Semester – 17 hours

Hours			*Notes
3	ENGL 4993	Capstone	
3	ENGL 3203	Young Adult Literature or ENGL 3303 Writing and the Teaching of Writing	2
2	EDUC 4222	Assessment	7
2	SPED 3022	Survey of Diverse Populations	7
2	EDUC 3612	Classroom and Behavioral Management	7
1	EDUC 4211	Practicum II	7
1		PHYE program requirement	5
3		English requirement	2 & 4

Senior Year Spring Semester – 12 hours

Hours			*Notes
2	EDUC 4802	Seminar in Education	7
10	EDUC 490A	Teaching in the Secondary Schools	7

124 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, 1841, 2571, or 2841.
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.

ENGLISH MINOR

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 from

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

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English composition requirement	1
3 Mathematics requirement	1
3 History/Government requirement	1
3 SPCH 1203 Introduction to Speech Communication	
4 Lab science requirement	1

Freshman Year Spring Semester – 16 hours

Hours	*Notes
3 English composition requirement	1
4 Lab Science requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year—Fall Semester – 16 hours

Hours	*Notes
4 World language requirement	6
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 RHET 2863 Advanced Composition	2 & 3
3 RHET 3103 Editing for Usage, Style, and Clarity	2
3 COMM 2203 Introduction to Mass Communication	2

Sophomore Year Spring Semester – 16 hours

Hours	*Notes
4 World language requirement	6
3 SPCH 2223 Advanced Public Speaking	2
3 COMM 2303 Survey of New Media	2
3 RHET 3203 Textual Research Methods	2
3 RHET 3503 Writing Arguments	2

Junior Year Fall Semester – 15 hours

Hours	*Notes
3 World language requirement	6
3 Media Communication elective	2 & 4
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5

Junior Year Spring Semester – 15 hours

Hours	*Notes
3 PHIL 3203 Ethics Across the Disciplines	
3 Media Communication elective	2 & 4
3 Media Communication elective	2 & 4
3 Additional degree requirement	5
3 Additional degree requirement	5

Senior Year Fall Semester – 15 hours

Hours	*Notes
3 RHET 4803 Senior Seminar	2
3 Media Communication elective	2 & 4
3 Media Communication elective	2 & 4
3 Additional degree requirement	5
3 Additional degree requirement	5

Senior Year Spring Semester – 15 hours

Hours	*Notes
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5

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 chair, RHET 3801, COMM 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.
6. World language requirement 11 hours. Must complete through Intermediate I of a world language.

MEDIA COMMUNICATION MINOR

The minor in media communication is pending approval from the Arkansas Higher Education Coordinating Board.

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 from the following courses:

COMM 3143	Special Topics in Media Communication
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 3801	Publications Staff
RHET 4123	Editing as a Profession
RHET 4523	Arguing Public Issues

Rhetoric and Writing

BACHELOR OF ARTS (BA) DEGREE

Freshman Year Fall Semester – 16 hours

Hours		*Notes
3	English composition requirement	1
3	Mathematics requirement	1
3	History/Government requirement	1
3	SPCH 1203 Introduction to Speech Communication	
4	Lab Science requirement	1

Freshman Year Spring Semester – 16 hours

Hours		*Notes
3	English composition requirement	1
4	Lab Science requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Fall Semester – 16 hours

Hours		*Notes
3	Fine Arts/Humanities/ Social Sciences requirement	1
4	World language requirement	6
3	RHET 2863 Advanced Composition	2 & 3
3	RHET 3103 Editing for Style, Usage, Clarity	2
3	Additional degree requirement	5

Sophomore Year Spring Semester – 16 hours

Hours		*Notes
3	ENGL 3003 History and Development of the English Language	2
4	World language requirement	6
3	RHET 3503 Writing Arguments	2
3	RHET 3203 Textual Research Methods	2
3	Additional degree requirement	5

Junior Year Fall Semester – 15 hours

Hours		*Notes
3	RHET 3403 History of Rhetoric	2
3	Rhetoric/Writing elective	2 & 4
3	World language requirement	6
3	RHET 3303 Rhetorical/Textual Criticism	2
3	Additional degree requirement	5

Junior Year Spring Semester – 15 hours

Hours		*Notes
3	PHIL 3203 Ethics Across the Disciplines	
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Rhetoric/Writing elective	2 & 4
3	Rhetoric/Writing elective	2 & 4

Senior Year Fall Semester – 15 hours

Hours		*Notes
3	RHET 4803 Senior Seminar	2
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Rhetoric/Writing elective	2 & 4
3	Rhetoric/Writing elective	2 & 4

Senior Year Spring Semester – 15 hours

Hours		*Notes
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Additional degree requirement	5

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. 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 chair, 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.
6. World language requirement 11 hours. Must complete through Intermediate I of a world language.

RHETORIC/WRITING MINOR

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

RHET 4633 Writing for the Web
RHET 4643 Writing for the Media
RHET 4733 Special Topics in Rhetoric

Spanish

BACHELOR OF ARTS (BA) DEGREE

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English composition requirement	1
3 Mathematics requirement	1
3 SPCH 1203 Introduction to Speech Communication	
3 Fine Arts/Humanities/ Social Sciences requirement	1
4 SPAN 1304 Beginning Spanish I	2

Freshman Year Spring Semester – 17 hours

Hours	*Notes
3 English composition requirement	1
4 Lab science requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 History/Government requirement	1
4 SPAN 1314 Beginning Spanish II	2

Sophomore Year Fall Semester – 16 hours

Hours	*Notes
3 SPAN 2803 Intermediate Spanish I	2
3 Fine Arts/Humanities/ Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
4 Lab science requirement	1
3 Additional degree requirement	4

Sophomore Year Spring Semester – 15 hours

Hours	*Notes
3 SPAN 2813 Intermediate Spanish II	2
3 Spanish requirement	2 & 3
3 Spanish requirement	2 & 3
3 Additional degree requirement	4
3 Additional degree requirement	4

Sophomore Year Summer Semester – 3 hours

Hours	*Notes
3 SPAN 3553 Travel to Spain or Latin America	2 & 5

Junior Year Fall Semester – 15 hours

Hours			*Notes
3	SPAN	3013 Grammar and Composition I	2
3	SPAN	3053 Cultural Readings	2
3		Spanish requirement	2 & 3
3	PHIL	3103 Reasoning Across the Disciplines	
3		Additional degree requirement	4

Junior Year Spring Semester – 15 hours

Hours			*Notes
3	SPAN	3063 Grammar and Composition II	2
3		Spanish requirement	2 & 3
3		Additional degree requirement	4
3		Additional degree requirement	4
3		Additional degree requirement	4

Senior Year Fall Semester – 15 hours

Hours			*Notes
3	SPAN	3023 Advanced Conversation I	2
3		Spanish requirement	2 & 3
3		Spanish requirement	2 & 3
3		Additional degree requirement	4
3		Additional degree requirement	4

Senior Year Spring Semester – 12 hours

Hours			*Notes
3		Spanish requirement	2 & 3
3		Additional degree requirement	4
3		Additional degree requirement	4
3		Additional degree requirement	4

Total Hours 124

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.
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 UA Fort Smith 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

Freshman Year Fall Semester – 15 hours

Hours			*Notes
3		English composition requirement	1 & 5
3	MATH	1403 College Algebra	5
3	SPCH	1203 Introduction to Speech Communication	5
3		History/Government requirement	1
3	SPAN	2803 Intermediate Spanish I	2

Freshman Year Spring Semester – 16 hours

Hours			*Notes
3		English composition requirement	1 & 5
4		Lab science requirement	1
3		Fine Arts/Humanities/ Social Sciences requirement	1
3		History/Government requirement	1
3	SPAN	2813 Intermediate Spanish II	2

Sophomore Year Fall Semester – 17 hours

Hours			*Notes
3	SPAN	3013 Grammar and Composition I	2
3	EDUC	2753 Introduction to Education	5
3		Fine Arts/Humanities/	

Social Sciences requirement	1
3 Fine Arts/Humanities/ Social Sciences requirement	1
4 Lab science requirement	1
1 Physical education activity	4

Sophomore Year Spring Semester – 14 hours

Hours	*Notes
3 SPAN 3233 Spanish Literature I	2
3 SPAN 3623 Latin American Literature I	2
3 SPAN 3063 Grammar and Composition II	2
2 EDUC 3002 Introduction to Educational Technology	5
3 Fine Arts/Humanities/ Social Sciences requirement	1

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 – 16 hours

Hours	*Notes
3 SPAN 3003 Phonetics & Pronunciation	2
3 SPAN 4133 Spanish Civilization	2
3 SPAN 3023 Advanced Conversation I	2
3 EDUC 3013 Human Development and Learning	6
2 EDUC 3112 Literacy Development in the Content Area	6
2 EDUC 3222 Practicum I	6

Junior Year Spring Semester – 14 hours

Hours	*Notes
3 SPAN 4123 Latin American Civilization	2
3 Spanish elective	2 & 3
3 Spanish elective	2 & 3
2 EDUC 3612 Classroom and Behavior Management	6
2 SPED 3022 Survey of Diverse Populations	6
1 EDUC 4211 Practicum II	6

Junior Year Summer Semester – 6 hours

Hours	*Notes
3 SPAN 3553 Travel to Spain or Latin America	2 & 7
3 SPAN 3053 Cultural Readings	

Senior Year Fall Semester – 15 hours

Hours	*Notes
3 FORL 4313 Second Language Teaching Methods	2
3 SPAN 4603 Spanish Linguistics	2
2 EDUC 4222 Assessment	6
3 Spanish Elective	2 & 3
3 Spanish Elective	2 & 3
1 Physical education activity	4

Senior Year Spring Semester - 12 hours

Hours	*Notes
2 EDUC 4802 Seminar in Education	6
10 EDUC 480A Teaching in the Elementary and Secondary Schools	6

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 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, 405V, 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, 1841, 2571, or 2841.
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.

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

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 UA Fort Smith 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 MINOR

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

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

This certificate is pending approval from the University of Arkansas System Board of Trustees and the Arkansas Higher Education Coordinating Board.

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.

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

Choose three hours from the following courses:

- 3 ENGL 130V/FORL 130V Language and Culture: United States
- 3 FORL 2313 Portuguese for Spanish Speakers
- 3 FREN 2313 Intermediate French II
- 3 GERM 2313 Intermediate German II
- 3 SPAN 2813 Intermediate Spanish II
- 3 ENGL 3663 English Grammar
- 3 Any upper-level World Language course

Associate of Arts (AA) Degree

This degree is pending approval from the Arkansas Higher Education Coordinating Board.

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

Hours	*Notes
6 English composition requirement	1
3 Speech requirement	1
3 Mathematics requirement	1
8 Lab science requirement	1
3 Fine Arts requirement	1
3 Humanities requirement	1
3 History/Government requirement	1
6 Social Sciences requirement	1
25 Directed electives	2

60 Total Hours

*Notes

1. Follow the General Education Core Requirements, see Graduation Requirements section of catalog.
2. Directed electives. Select lower-level (1000-2000) courses chosen from English/communication, mathematics, science, fine arts/humanities, US history/government and social sciences on the list below (Remedial/developmental courses with a MATH or ENGL prefix cannot be included). Courses may be used for elective hours for the AA degree if not used for General Education Core Requirements.

ANTH	Anthropology
ART	Art
BIOL	Biology (Except BIOL 1433 Basic Anatomy and Physiology, BIOL 1431 Basic Anatomy and Physiology Lab, and BIOL 1452 Basic Microbiology)
CHEM	Chemistry
CJ	1013 Introduction to the Criminal Justice System
ECON	Economics
ENGL	English (Except ENGL 0153, ENGL 0163, and ENGL 1201)
FORL	Foreign Language
FREN	French
GEOG	Geography
GEOL	Geology
GERM	German
HIST	History
HUMN	Humanities
ITA	1003 Computer Applications for the Knowledge Worker

MATH	Mathematics (Except MATH 0233, MATH 0234, MATH 1133, and MATH 1203)
PHIL	Philosophy
PHSC	Physical Science
PHYS	Physics
POLS	Political Science
PSYC	Psychology
RHET	Rhetoric and Writing
SOCI	Sociology
SPAN	Spanish
SPCH	Speech
STAT	Statistics
THEA	Theatre

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

Hours	*Notes
3 ENGL 1203 Freshman English I	1
3 SPCH 1203 Introduction to Speech	1
3 Mathematics requirement	2
4 Lab science requirement	1
3 Fine Arts requirement	1
3 Humanities requirement	1
6 Social Sciences requirement	1
3/4 General Education Core Elective	3
31/32 Electives	4

60 Total Hours

*Note

1. General Education Core Requirements, see Graduation Requirements section of catalog.
2. Mathematics. Any 1000-level or higher mathematics course.
3. General Education Core Electives. Select courses from humanities, sciences, and social sciences.
4. Electives. Must select college-level courses. Six hours of upper-level courses (3000-4000) may be used.

COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS



The mission of the College of Science, Technology, Engineering & Mathematics (STEM) is to provide all students with knowledge of the fundamental concepts, thinking patterns, ethics, and learning methods of mathematics, the natural sciences, and technology necessary to understand the past and present and to make informed decisions about the future of human society and the natural environment. 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.

Majors and Degrees Offered:

The College of Science, Technology, Engineering & Mathematics offers the following majors and degrees.

BACHELOR OF SCIENCE (BS) DEGREE

- Biology
- Chemistry and Chemistry with concentration in Biochemistry
- Information Technology

Database Management	Networking
Programming	Web Developer
- Mathematics

The College of Science, Technology, Engineering & Mathematics, in partnership with the College of Education, offers the following programs.

- Biology with Life Science/Earth Science teacher licensure 7-12
- Chemistry with Physical Science/Earth Science teacher licensure 7-12
- Mathematics with teacher licensure 7-12

DEGREE PROGRAMS IN COORDINATION WITH THE UNIVERSITY OF ARKANSAS, FAYETTEVILLE.

- Electrical Engineering (BSEE)
- Mechanical Engineering (BSME)

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

- Information Technology

MINORS

- Biology
- Chemistry
- Geology*
- IT Database Technology
- IT Web Development
- Mathematics
- Physics*

* Pending approval by UA System and AHECB



Biology

BACHELOR OF SCIENCE (BS) DEGREE

Freshman Year Fall Semester – 16 hours

Hours	*Notes
3 English composition requirement	1
3 BIOL 2003 Introduction to Cell Biology	6
4 CHEM 1403/1401 College Chemistry I/Lab	6
3 STAT 2503 Probability and Statistics	6
3 Fine Arts/Humanities/ Social Sciences requirement	1

Freshman Year Spring Semester – 17 hours

Hours	*Notes
3 English composition requirement	1
4 CHEM 1413/1411 College Chemistry II/Lab	2 & 6
4 BIOL 2303/2301 General Botany/Lab	2 & 6
3 History/Government requirement	1
3 SPCH 1203 Introduction to Speech Communication	

Sophomore Year Fall Semester – 15 hours

Hours	*Notes
4 BIOL 2703/2701 General Zoology/Lab	2 & 6
4 CHEM 2703/2701 Organic Chemistry I/Lab	2 & 6
4 Physics Sequence	2, 3 & 6
3 Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Spring Semester – 15 hours

Hours	*Notes
4 BIOL 2503/2501 General Microbiology/Lab	2 & 6
4 CHEM 2713/2711 Organic Chemistry II/Lab	2 & 6
4 Physics Sequence	2, 3 & 6
3 Fine Arts/Humanities/ Social Sciences requirement	1

Junior Year Fall Semester – 15 hours

Hours	*Notes
4 BIOL 3803/3801 Genetics/Lab	2 & 6
4 BIOL 3403/3401 Ecology/Lab	2 & 6
4 Natural Science elective	2, 4 & 6
3 Fine Arts/Humanities/ Social Sciences requirement	1

Junior Year Spring Semester – 15 hours

Hours	*Notes
3 BIOL 4403 Evolutionary Biology	2 & 6
3 HIST 3053 History of Modern Science	
1 BIOL 4001 Seminar	2 & 6
4 Natural Science elective	2, 4 & 6
4 Additional degree requirement	5

Senior Year Fall Semester – 16 hours

Hours	*Notes
4 BIOL 4803/4801 Cell and Molecular Biology/Lab	2 & 6
4 Natural Science elective	2, 4 & 6
4 Natural Science elective	2, 4 & 6
4 Additional degree requirement	5

Senior Year Spring Semester – 15 hours

Hours	*Notes
4 BIOL 4604 General Physiology	2 & 6
4 Natural Science elective	2, 4 & 6

3 PHIL 3103 Reasoning Across the Disciplines or PHIL 3203 Ethics Across the Disciplines	
4 Additional degree requirement	5

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.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Physics Sequence 8 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 3 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

Freshman Year Fall Semester – 15 hours

Hours		*Notes
3	English composition requirement	1 & 4
4	BIOL 1523/1521 Anatomy and Physiology/Lab I	6
4	CHEM 1403/1401 College Chemistry/Lab I	6
4	PHSC 2653/2651 Earth Science/Lab or GEOL 1253/1251 Physical Geology/Lab	2 & 6

Freshman Year Spring Semester – 18 hours

Hours		*Notes
3	English composition requirement	1 & 4
4	BIOL 1533/1531 Anatomy and Physiology II/Lab	2 & 6
4	BIOL 2303/2301 General Botany/Lab	2 & 6
4	CHEM 1413/1411 College Chemistry II/Lab	2 & 6
3	STAT 2503 Probability and Statistics	4 & 6

Summer Term(s) – 12 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

Hours		*Notes
3	History/Government requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
3	Fine Arts/Humanities/Social Sciences requirement	1
3	PHSC 2503 Fundamentals of Astronomy	2 & 6

Sophomore Year Fall Semester – 15 hours

Hours		*Notes
4	BIOL 2503/2501 General Microbiology/Lab	2 & 6
4	CHEM 2703/2701 Organic Chemistry I/Lab	2 & 6
2	FORL 1322 Beginning Conversational Spanish I	
2	FORL 1332 Beginning Conversational Spanish II	
3	EDUC 2753 Introduction to Education	4

Sophomore Year Spring Semester – 16 hours

Hours		*Notes
4	BIOL 2703/2701 General Zoology/Lab	2 & 6

4	PHSC Earth Science upper-level course	2 & 6
2	EDUC 3002 Introduction to Educational Technology	4
3	SPCH 1203 Introduction to Speech Communication	4
3	Fine Arts/Humanities/Social Sciences requirement	1

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

Hours		*Notes
4	BIOL 3803/3801 Genetics/Lab	2 & 6
4	PHYS 2803/2811 College Physics I/Lab	2 & 6
3	EDUC 3013 Human Development and Learning	5
2	EDUC 3112 Literacy Development in the Content Area	5
2	EDUC 3222 Practicum I	5
1	PHYE activity course	3

Junior Year Spring Semester – 15 hours

Hours		*Notes
4	BIOL 3403/3401 Ecology/Lab	2 & 6
3	BIOL 4403 Evolutionary Biology	2 & 6
4	PHYS 2823/2831 College Physics II/Lab	2 & 6
3	HIST 3053 History of Modern Science	
1	PHYE activity course	3

Senior Year Fall Semester – 17 hours

Hours		*Notes
4	BIOL 4803/4801 Cell and Molecular Biology/Lab	2 & 6
3	BIOL 4103 Teaching Science Methods	2 & 6
3	Fine Arts/Humanities/Social Sciences requirement	1
2	EDUC 3612 Classroom and Behavior Management	5
1	EDUC 4211 Practicum II	5
2	EDUC 4222 Assessment	5
2	SPED 3022 Survey of Diverse Populations	5

Senior Year Spring Semester – 12 hours

Hours		*Notes
2	EDUC 4802 Seminar in Education	5

10 EDUC 490A Teaching in
Secondary School 5

136 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.

BIOLOGY MINOR

The minor in biology requires 23-24 hours of coursework.

Required 12 hours:

BIOL 1153/1151 Biological Science/Lab
BIOL 2503/2501 General Microbiology/Lab
BIOL 2703/2701 General Zoology/Lab

Select 11-12 hours:

BIOL 3204 Conservation and
Environmental Science
BIOL 3403/3401 Ecology/Lab
BIOL 3704 Invertebrate Zoology
BIOL 3803/3801 Genetics/Lab
BIOL 420V Special Topics in Biology

BIOL 4403 Evolutionary Biology
BIOL 4604 General Physiology
BIOL 4803/4801 Cell and Molecular Biology/Lab
BIOL 4904 Histology

Chemistry

BACHELOR OF SCIENCE (BS) DEGREE

Freshman Year Fall Semester – 14 hours

Hours		*Notes
3	English composition requirement	1
4	MATH 2804 Calculus I	
4	CHEM 1403/1401 College Chemistry I/Lab	
3	Fine Arts/Humanities/ Social Sciences requirement	1

Freshman Year Spring Semester – 15 hours

Hours		*Notes
3	English composition requirement	1
4	CHEM 1413/1411 College Chemistry II/Lab	2
4	MATH 2854 Calculus II	2
3	BIOL 1153/1151 Biological Science/Lab	

Sophomore Year Fall Semester – 15 hours

Hours		*Notes
4	CHEM 2703/2701 Organic Chemistry I/Lab	2
4	PHYS 2903/2911 University Physics I/Lab	2
4	World language requirement	4
3	Fine Arts/Humanities/ Social Sciences requirement	1

Sophomore Year Spring Semester – 15 hours

Hours		*Notes
4	CHEM 2713/2711 Organic Chemistry II/Lab	2
4	PHYS 2923/2931 University Physics II/Lab	2
3	History/Government requirement	1
3	STAT 2503 Probability and Statistics or STAT 3503 Applied Mathematical Statistics I	2
1	PHYE activity course	3

Junior Year Fall Semester – 17 hours

Hours		*Notes
4	CHEM 3403/3401 Biochemistry I/Lab	2
4	CHEM 4504 Physical Chemistry I	2
2	CHEM 3202 Chemical Literature	2
3	History/Government requirement	1
4	Additional degree requirement	5

Junior Year Spring Semester – 17 hours

Hours		*Notes
4 CHEM 3423/3421 Biochemistry II/Lab	2	
4 CHEM 4514 Physical Chemistry II	2	
3 HIST 3053 History of Modern Science		
3 Fine Arts/Humanities/ Social Sciences requirement	1	
3 SPCH 1203 Introduction to Speech Communication		

Senior Year Fall Semester – 15 hours

Hours		*Notes
4 CHEM 3604 Analytical Chemistry	2	
4 CHEM 4704 Inorganic Chemistry	2	
3 Additional degree requirement	5	
3 Additional degree requirement	5	
1 PHYE activity course	3	

Senior Year Spring Semester – 16 hours

Hours		*Notes
4 CHEM 4614 Instrumental Analysis	2	
2 CHEM 4902 Chemistry Special Topics	2	
3 Additional degree requirement	5	
3 Additional degree requirement	5	
4 Additional degree requirement	5	

124 Total Hours

At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of his 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, see Graduation Requirements.
3. PHYE activity courses: two hours. Select two PHYE activity courses
4. World language - four hours. Select any world language
5. Additional Degree Requirements 20 hours. Consult with faculty advisor. Various combinations of three or four credit hours courses may be chosen. Must select electives to ensure completion of 45 upper-level hours required for graduation.

Chemistry with Concentration in Biochemistry**BACHELOR OF SCIENCE (BS) DEGREE****Freshman Year Fall Semester – 14 hours**

Hours		*Notes
3 English composition requirement	1	
4 MATH 2804 Calculus I		
4 CHEM 1403/1401 College Chemistry I/Lab		
3 Fine Arts/Humanities/ Social Sciences requirement	1	

Freshman Year Spring Semester – 15 hours

Hours		*Notes
3 English composition requirement	1	
4 CHEM 1413/1411 College Chemistry II/Lab	2	
4 MATH 2854 Calculus II	2	
4 BIOL 1153/1151 Biological Science/Lab		

Sophomore Year Fall Semester – 15 hours

Hours		*Notes
4 CHEM 2703/2701 Organic Chemistry I/Lab	2	
4 PHYS 2903/2911 University Physics I/Lab	2	
4 World language requirement	3	
3 Fine Arts/Humanities/ Social Sciences requirement	1	

Sophomore Year Spring Semester – 15 hours

Hours		*Notes
4 CHEM 2713/2711 Organic Chemistry II/Lab	2	
4 PHYS 2923/2931 University Physics II/Lab	2	
4 BIOL 2303/2301 Botany/Lab		
BIOL 2503/2501 Microbiology/Lab or BIOL 2703/2701 Zoology/Lab	2	
3 STAT 2503 Probability and Statistics or STAT 3503 Applied Mathematical Statistics I	2	

Junior Year Fall Semester – 17 hours

Hours		*Notes
4 CHEM 3403/3401 Biochemistry I/Lab	2	
4 CHEM 4504 Physical Chemistry I	2	
2 CHEM 3202 Chemical Literature	2	
3 History/Government requirement	1	
4 BIOL 1523/1521 Anatomy and Physiology I/Lab	2	

Junior Year Spring Semester – 17 hours

Hours		*Notes
4	CHEM 3423/3421 Biochemistry II/Lab	2
4	BIOL 1533/1531 Anatomy and Physiology II/Lab	2
3	HIST 3053 History of Modern Science	
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	SPCH 1203 Introduction to Speech Communication	

Senior Year Fall Semester – 19 hours

Hours		*Notes
4	CHEM 3604 Analytical Chemistry	2
4	BIOL 3803/3801 Genetics/Lab	2
4	BIOL 4803/4801 Cell and Molecular Biology	2
3	History/Government Requirement	1
4	BIOL 4604 General Physiology	2

Senior Year Spring Semester – 12 hours

Hours		*Notes
2	CHEM 4902 Chemistry Special Topics	2
10	Upper-level additional degree requirement	4

124 Total Hours

At least 45 hours must be upper-level

*Notes

1. General Education Core Requirements, see Graduation Requirements section of the 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, see Graduation Requirements.
3. World language - four hours. Select any world language
4. Upper-level additional degree requirements 10 hours. Consult with faculty advisor. Various combinations of three or four credit hour upper-level (3000-4000 level) courses may be selected in this category.

Chemistry with Physical/Earth Science Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE**Freshman Year Fall Semester – 14 hours**

Hours		*Notes
3	English composition requirement	1 & 4
4	CHEM 1403/1401 College Chemistry I/Lab	
4	MATH 2804 Calculus I	4
3	SPCH 1203 Introduction to Speech Communication	4

Freshman Year Spring Semester – 16 hours

Hours		*Notes
3	English composition requirement	1 & 4
4	CHEM 1413/1411 College Chemistry II/Lab	2
4	MATH 2854 Calculus II	2
4	BIOL 1153/1151 Biological Science/Lab	
1	PHYE activity course	3

Summer Term(s) – 12 hours

(The following courses need to be scheduled during one or more summer terms prior to the senior year.)

Hours		*Notes
3	History/Government requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	PHSC 2503 Fundamentals of Astronomy	2

Sophomore Year Fall Semester – 15 hours

Hours		*Notes
4	CHEM 2703/2701 Organic Chemistry I/Lab	2
4	PHYS 2903/2911 University Physics I/Lab	2
1	CHEM 4401 Instructional Methods I	2
3	EDUC 2753 Introduction to Education	4
3	History/Government requirement	1

Sophomore Year Spring Semester – 15 hours

Hours		*Notes
4	CHEM 2713/2711 Organic Chemistry II/Lab	2
4	PHYS 2923/2931 University Physics II/Lab	2
1	CHEM 4421 Instructional Methods II	2
2	EDUC 3002 Educational Technology	4
2	FORL 1322 Beg. Conversational Spanish I	
2	FORL 1332 Beg. Conversational Spanish II	

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

Hours		*Notes
4	CHEM 3604 Analytical Chemistry	2
4	CHEM 4504 Physical Chemistry I	2
1	CHEM 4411 Laboratory Methods I	2
4	GEOL 1253/1251 Physical Geology/Lab	2
3	HIST 3053 History of Modern Science	

Junior Year Spring Semester – 16 hours

Hours		*Notes
2	EDUC 3112 Literacy Development in the Content Area	5
2	EDUC 3222 Practicum I	5
4	CHEM 4514 Physical Chemistry II	2
1	CHEM 4431 Laboratory Methods II	2
4	GEOL 3263/3261 Historical Geology/Lab	2
3	EDUC 3013 Human Development and Learning	5

Senior Year Fall Semester – 15 hours

Hours		*Notes
2	EDUC 3612 Classroom and Behavioral Management	5
1	EDUC 4211 Practicum II	5
2	EDUC 4222 Assessment	5
2	SPED 3022 Survey of Diverse Populations	5
4	CHEM 3403/3401 Biochemistry I/Lab	2
1	PHYE activity course	3
3	Fine Arts/Humanities/ Social Sciences requirement	1

Senior Year Spring Semester – 12 hours

Hours		*Notes
2	EDUC 4802 Seminar in Education	5
10	EDUC 490A Teaching in the Secondary Schools	5

131 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, 1841, 2571, or 2851.
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.

CHEMISTRY MINOR

The minor in chemistry requires 24 hours of coursework.

Required 12 hours:

CHEM 1403/1401 College Chemistry I/Lab
 CHEM 1413/1411 College Chemistry II/Lab
 CHEM 2404 Fundamentals of Organic and Biochemistry or
 2703/2701 Organic Chemistry I/Lab

Select 12 hours (students must choose nine hours of theory and no more than three hours of lab):

CHEM 3000 or 4000 series courses.

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. UA Fort Smith faculty deliver the freshman and sophomore courses charging UA Fort Smith tuition and fees. The junior- and senior-level courses are delivered by University of Arkansas, Fayetteville faculty on the UA Fort Smith 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)

Freshman Year Fall Semester – 18 Hours

Hours			*Notes
1	ENGN	1111	Introduction to Engineering I
2	ENGN	1022	Engineering Analysis
3	ENGL	1203	Freshman English I
4	MATH	2804	Calculus I

4	CHEM	1403/1401	College Chemistry I/Lab
4	ITC	1374	Programming for Engineers

Freshman Year Spring Semester – 16 Hours

Hours				*Notes
1	ENGN	1121	Introduction to Engineering II	
3	ENGL	1213	Freshman English II	
4	ITC	2334	Advanced Programming	
4	MATH	2854	Calculus II	
4	PHYS	2903/2911	University Physics I/Lab	

Sophomore Year Fall Semester – 18 Hours

Hours				*Notes
4	MATH	2904	Calculus III	
4	ELEG	2103/2101	Electric Circuits I/Lab	
4	PHYS	2923/2931	University Physics II/Lab	
3	ELEG	2903	Digital Systems I	
3	History/Government requirement			1

Sophomore Year Spring Semester – 18 Hours

Hours				*Notes
4	MATH	2914	Differential Equations	
4	ELEG	2113/2111	Electric Circuits II/Lab	
3	ELEG	2913	Digital Systems II	
4	CHEM	1413/1411	College Chemistry II/Lab or	
	BIOL	1153/1151	Biological Science/Lab	
3	Fine Arts/Humanities/ Social Sciences requirement			2

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

Hours				*Notes
4	ELEG	3124	Systems and Signals Analysis with Lab	
4	ELEG	3214	Electronics with Lab	
4	ELEG	3924	Microprocessor System Design/Lab	
4	ELEG	3704	Applied Electromagnetics with Lab	
3	Fine Arts/Humanities/ Social Sciences requirement			2

Junior Year Spring Semester – 14 Hours

Hours				*Notes
4	ELEG	3224	Electronics II with Lab	
4	ELEG	3304	Energy Systems with Lab	

- 3 ELEG 3143 Probability & Stochastic Processes
- 3 Math/Science/Technical elective 3

Senior Year Fall Semester – 16 Hours

- Hours *Notes
- 1 ELEG 4061 Electrical Engineering Design I
 - 3 Electrical Engineering Technical elective 3
 - 3 Electrical Engineering Technical elective 3
 - 3 Engineering Science elective 3
 - 3 Fine Arts/Humanities/
Social Sciences requirement 2
 - 3 Upper-level Humanities/Social Sciences elective 2

Senior Year Spring Semester – 15 Hours

- Hours *Notes
- 3 ELEG 4073 Electrical Engineering Design II
 - 3 Electrical Engineering technical
upper-level elective 3
 - 6 Technical upper-level elective 3
 - 3 Upper-level Humanities/Social Sciences elective 2

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, 15 hours. There are three options in the selection of these courses. In general nine hours are required at the lower level and six at the upper level. Students must consult with UA Fayetteville faculty advisor.
3. Upper-level electives. Consult with UA Fayetteville faculty advisor.

Mechanical Engineering

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING DEGREE (BSME)

Freshman Year Fall Semester – 16 Hours

- Hours *Notes
- 1 ENGN 1111 Introduction to Engineering I
 - 2 ENGN 1022 Engineering Analysis
 - 3 ENGL 1203 Freshman English I
 - 4 MATH 2804 Calculus I
 - 4 CHEM 1403/1401 College Chemistry/Lab I
 - 2 CADD 1302 Graphics for Engineers

Freshman Year Spring Semester – 16 Hours

- Hours *Notes
- 1 ENGN 1121 Introduction to Engineering II
 - 3 ENGL 1213 Freshman English II
 - 4 MATH 2854 Calculus II
 - 4 PHYS 2903/2911 University Physics I/Lab
 - 4 CHEM 1413/1411 College Chemistry II/Lab or
BIOL 1153/1151 Biological Science/Lab

Sophomore Year Fall Semester – 17 Hours

- Hours *Notes
- 4 MATH 2904 Calculus III
 - 4 PHYS 2923/2931 University Physics II/Lab
 - 3 ENGN 2753 Engineering Statics
 - 3 MEEG 2303 Introduction to Materials
 - 3 History/Government requirement 1

Sophomore Year Spring Semester – 16 Hours

- Hours *Notes
- 4 MATH 2914 Differential Equations
 - 3 ENGN 2763 Engineering Dynamics
 - 3 ENGN 2803 Engineering Thermodynamics
 - 3 MEEG 2703 Numerical Methods I
 - 3 MEEG 2103 Introduction to Machine Analysis

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

- Hours *Notes
- 3 MEEG 3013 Mechanics of Materials
 - 3 MEEG 3503 Mechanics of Fluids
 - 2 MEEG 3202 Mechanical Engineering Lab I
 - 3 ELEG 3903 Electric Circuits and Machines
 - 3 MEEG 3113 Machine Dynamics and Control
 - 3 ECON 2803 Principles of Macroeconomics

Junior Year Spring Semester – 18 Hours

- Hours *Notes
- 3 MEEG 4413 Heat Transfer
 - 3 ELEG 3913 Engineering Electronics
 - 4 MEEG 4104 Machine Element Design
 - 2 MEEG 3212 Mechanical Engineering Lab II
 - 3 Fine Arts/Humanities/
Social Sciences requirement 2
 - 3 Technology or science elective 3

Senior Year Fall Semester – 14 Hours

Hours		*Notes
2	MEEG 4132 Professional Engineering Practice	
2	MEEG 4202 Mechanical Engineering Lab III	
1	MEEG 4131 Creative Project I	
3	MEEG 4483 Thermal Systems Analysis & Design	
3	Mechanical engineering elective	3
3	Upper-level Humanities/Social Sciences elective	2

Senior Year Spring Semester – 15 Hours

Hours		*Notes
3	MEEG 4133 Creative Project Design II	
6	Technology or science elective	3
3	Fine Arts/Humanities/ Social Sciences requirement	2
3	Upper-level Humanities/Social Sciences elective	2

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. There are three options in the selection of these courses. In general six hours are required at the lower level and six at the upper level. Students must consult with UA Fayetteville faculty advisor.
3. Upper-level electives. Consult with UA Fayetteville faculty advisor.

Geology

GEOLOGY MINOR

The minor in geology is pending approval of the University of Arkansas System Board of Trustees and the Arkansas Higher Education Coordinating Board.

The minor in geology requires 17 hours of coursework.

Required 8 hours:

GEOL 2313/2311 Minerals and Rocks/Lab
and

GEOL 1253/1251 Physical Geology/Lab or
PHSC 2653/2651 Earth Science/Lab

Select 9 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 and wide area networks, the public switched network.

Programming:

Programmers help develop software solutions 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 Community College, and Phillips Community College of the University of Arkansas. For more information about this partnership and the degrees, you may contact the institutional representative at (870) 733-6876.

**INFORMATION TECHNOLOGY
DATABASE MANAGEMENT
BACHELOR OF SCIENCE (BS) DEGREE**

Freshman Year Fall Semester – 16 Hours

Hours					
3	English composition requirement			*Notes	
3	MATH 1403	College Algebra or higher		1	
3	ITC 1353	Logic and Design for IT			
3	ITC 1403	Operating Systems			
4	ITC 1614	Network Fundamentals			

Freshman Year Spring Semester – 17 hours

Hours					
3	English composition requirement			*Notes	
4	Lab science requirement			1	
3	ITC 1123	IT Project Tools			
3	ITC 1143	Website Design			
4	ITC 2324	Introductory Programming			

Sophomore Year Fall Semester – 16 hours

Hours					
3	SPCH 1203	Introduction to Speech Communication		*Notes	
3	Fine Arts/Humanities/ Social Sciences requirement			1	
4	ITC 2334	Advanced Programming			
3	ITC 2513	Data Modeling			
3	ITC 2753	e-Commerce Technology			

Sophomore Year Spring Semester – 15 hours

Hours					
4	Lab science requirement			*Notes	
3	Fine Arts/Humanities/ Social Sciences requirement			1	
4	ITC 2524	Database & Queries			
4	ITC 2624	Network Client Support			

Junior Year Fall Semester – 16 hours

Hours					
3	ITD 3113	Advanced SQL		*Notes	
3	ITD 3123	Stored Procedures		2	
3	ITD 3133	Data Warehousing		2	
4	ITF 3634	Enterprise Java Programming		2	
3	STAT 2503	Probability and Statistics			

Junior Year Spring Semester – 16 hours

Hours					
3	ITD 3213	Database Administration I		*Notes	
3	ITD 3313	Database Application Development		2	
4	ITF 3444	Computer Architecture and Operations		2	
3	RHET 3603	Writing for the Workplace			
3	MATH 2403	Survey of Calculus			

Senior Year Fall Semester – 16 hours

Hours					
3	Fine Arts/Humanities/ Social Sciences requirement			*Notes	
3	History/Government requirement			1	
3	ITD 4223	Database Administration II		1	
4	ITF 4104	Systems Analysis and Design		2	
3	IT upper-level requirement			2 & 3	

Senior Year Spring Semester – 16 hours

Hours					
3	Fine Arts/Humanities/ Social Sciences requirement			*Notes	
3	ITD 4333	Database Performance Tuning		1	
4	ITF 4114	Capstone		2	
3	ITF 4123	Information Technology Security		2	
3	IT upper-level requirement			2 & 3	

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**

Freshman Year Fall Semester – 16 Hours

Hours					
3	English composition requirement			*Notes	
3	MATH 1403	College Algebra or higher		1	
3	ITC 1353	Logic and Design for IT			
3	ITC 1403	Operating Systems			
4	ITC 1614	Network Fundamentals			

Freshman Year Spring Semester – 17 hours

Hours					
3	English composition requirement			*Notes	
4	Lab science requirement			1	
3	ITC 1123	IT Project Tools			
3	ITC 1143	Website Design			
4	ITC 2324	Introductory Programming			

Sophomore Year Fall Semester – 16 hours

Hours					
3	SPCH 1203	Introduction to Speech Communication		*Notes	
3	Fine Arts/Humanities/ Social Sciences requirement			1	
4	ITC 2334	Advanced Programming			
3	ITC 2513	Data Modeling			
3	ITC 2753	e-Commerce Technology			

Sophomore Year Spring Semester – 15 hours

Hours					
4	Lab science requirement			*Notes	
3	Fine Arts/Humanities/ Social Sciences requirement			1	
4	ITC 2524	Database & Queries			
4	ITC 2624	Network Client Support			

Junior Year Fall Semester – 17 hours

Hours					
3	Fine Arts/Humanities/ Social Sciences requirement			*Notes	
4	ITF 3634	Enterprise Java Programming		1	
3	ITN 3113	Windows System Administration		2	
4	ITN 3214	Internetworking I		2	
3	STAT 2503	Probability and Statistics			

Junior Year Spring Semester – 17 hours

Hours					
4	ITF 3444	Computer Architecture and Operation		*Notes	
				2	

4	ITN 3224	Internetworking II			2
3	ITN 3133	Linux System Administration			2
3	RHET 3603	Writing for the Workplace			
3	MATH 2403	Survey of Calculus			

Senior Year Fall Semester – 16 hours

Hours					*Notes
3	Fine Arts/Humanities/ Social Sciences requirement				1
3	History/Government requirement				1
4	ITN 3234	Internetworking III			2
3	ITN 4353	Network Analysis and Design			2
3	IT upper-level requirement				2 & 3

Senior Year Spring Semester – 14 hours

Hours					*Notes
4	ITF 4114	Capstone			2
3	ITF 4123	Information Technology Security			2
4	ITN 4344	Network Security and Firewalls			2
3	IT upper-level requirement				2 & 3

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, PROGRAMMING
BACHELOR OF SCIENCE (BS) DEGREE**

Freshman Year Fall Semester – 16 hours

Hours					*Notes
3	English composition requirement				1
3	MATH 1403	College Algebra or higher			
3	ITC 1353	Logic and Design for IT			
3	ITC 1403	Operating Systems			
4	ITC 1614	Network Fundamentals			

Freshman Year Spring Semester – 17 hours

Hours					*Notes
3	English composition requirement				1
4	Lab science requirement				1
3	ITC 1123	IT Project Tools			
3	ITC 1143	Website Design			
4	ITC 2324	Introductory Programming			

Sophomore Year Fall Semester – 16 hours

Hours				*Notes
3	SPCH 1203	Introduction to Speech Communication		
3	Fine Arts/Humanities/	Social Sciences requirement	1	
4	ITC 2334	Advanced Programming		
3	ITC 2513	Data Modeling		
3	ITC 2753	e-Commerce Technology		

3	ITP 4213	Web Services	2
3	ITF 4123	Information Technology Security	2
3	IT	upper-level requirement	2 & 3

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.

Sophomore Year Spring Semester – 15 hours

Hours				*Notes
4	Lab science requirement		1	
3	Fine Arts/Humanities/	Social Sciences requirement	1	
4	ITC 2524	Database & Queries		
4	ITC 2624	Network Client Support		

INFORMATION TECHNOLOGY, WEB DEVELOPER BACHELOR OF SCIENCE (BS) DEGREE**Freshman Year Fall Semester – 16 hours**

Hours				*Notes
3	English composition requirement		1	
3	MATH 1403	College Algebra or higher		
3	ITC 1353	Logic and Design for IT		
3	ITC 1403	Operating Systems		
4	ITC 1614	Network Fundamentals		

Junior Year Fall Semester – 16 hours

Hours				*Notes
3	ITD 3113	Advanced SQL	2	
4	ITF 3634	Enterprise Java Programming	2	
3	ITP 3413	Data Structures	2	
3	ITP 3243	COBOL	2	
3	STAT 2503	Probability and Statistics		

Freshman Year Spring Semester – 17 hours

Hours				*Notes
3	English composition requirement		1	
4	Lab science requirement		1	
3	ITC 1123	IT Project Tools		
3	ITC 1143	Website Design		
4	ITC 2324	Introductory Programming		

Junior Year Spring Semester – 16 hours

Hours				*Notes
4	ITF 3444	Computer Architecture and Operations	2	
3	ITP 3133	Artificial Intelligence	2	
3	ITP 3253	Advanced COBOL	2	
3	RHET 3603	Writing for the Workplace		
3	MATH 2403	Survey of Calculus		

Sophomore Year Fall Semester – 16 hours

Hours				*Notes
3	SPCH 1203	Introduction to Speech Communication		
3	Fine Arts/Humanities/	Social Sciences requirement	1	
4	ITC 2334	Advanced Programming		
3	ITC 2513	Data Modeling		
3	ITC 2753	e-Commerce Technology		

Senior Year Fall Semester – 16 hours

Hours				*Notes
3	History/Government requirement		1	
3	Fine Arts/Humanities/	Social Sciences requirement	1	
3	ITP 4113	.Net Application Programming	2	
4	ITF 4104	Systems Analysis and Design	2	
3	IT	upper-level requirement	2 & 3	

Sophomore Year Spring Semester – 15 hours

Hours				*Notes
4	Lab science requirement		1	
3	Fine Arts/Humanities/	Social Sciences requirement	1	
4	ITC 2524	Database & Queries		
4	ITC 2624	Network Client Support		

Senior Year Spring Semester – 16 hours

Hours				*Notes
3	Fine Arts/Humanities/	Social Sciences requirement	1	
4	ITF 4114	Capstone	2	

Junior Year Fall Semester – 16 hours

Hours			*Notes
3	Fine Arts/Humanities/ Social Sciences requirement		1
3	ITD 3113	Advanced SQL	2
4	ITF 3634	Enterprise Java Programming	2
3	ITW 3123	Web Graphics	2
3	STAT 2503	Probability and Statistics	

Junior Year Spring Semester – 16 hours

Hours			*Notes
3	History/Government requirement		1
4	ITF 3444	Computer Architecture and Operations	2
3	ITN 3133	Linux System Administration	2
3	ITW 3253	Client-Side Scripting-Java	2
3	RHET 3603	Writing for the Workplace	

Senior Year Fall Semester – 15 hours

Hours			*Notes
4	ITF 4104	Systems Analysis and Design	2
3	ITW 4213	.Net Web Technologies	2
3	ITW 4263	Server-Side Web Applications	2
3	IT upper-level requirement		2 & 3
3	MATH 2403	Survey of Calculus	

Senior Year Spring Semester – 17 hours

Hours			*Notes
3	Fine Arts/Humanities/ Social Sciences requirement		1
4	ITF 4114	Capstone	2
3	ITF 4123	Information Technology Security	2
3	ITP 4213	Web Services	2
3	IT upper-level requirement		2 & 3

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****Freshman Year Fall Semester – 16 hours**

Hours			*Notes
3	English composition requirement		1
3	MATH 1403	College Algebra or higher	
3	ITC 1353	Logic and Design for IT	2
3	ITC 1403	Operating Systems	2
4	ITC 1614	Network Fundamentals	2

Freshman Year Spring Semester – 17 hours

Hours			*Notes
3	English composition requirement		1
4	Lab science requirement		1
3	ITC 1123	IT Project Tools	2
3	ITC 1143	Website Design	2
4	ITC 2324	Introductory Programming	2

Sophomore Year Fall Semester – 16 hours

Hours			*Notes
3	SPCH 1203	Introduction to Speech Communication	
3	Social Sciences requirement		1
4	ITC 2334	Advanced Programming	2
3	ITC 2513	Data Modeling	2
3	ITC 2753	e-Commerce Technology	2

Sophomore Year Spring Semester – 15 hours

Hours			*Notes
3	Fine Arts or Humanities requirement		1
4	ITC 2524	Database & Queries	2
4	ITC 2624	Network Client Support	2
4	ITF 2114	Capstone	2

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

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

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

Freshman Year Fall Semester – 16 hours

Hours		*Notes
3	English composition requirement	1
4	MATH 2804 Calculus I	
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	SPCH 1203 Introduction to Speech Communication	
3	Additional degree requirement	4

Freshman Year Spring Semester – 15 hours

Hours		*Notes
3	English composition requirement	1
3	MATH 1903 Introductory Discrete Mathematics	2
2	MATH 2702 Mathematics Technology	2
4	MATH 2854 Calculus II	2
3	History/Government requirement	1

Sophomore Year Fall Semester – 16 hours

Hours		*Notes
4	MATH 2904 Calculus III	2
3	MATH 3103 Foundations of Mathematics	2
3	STAT 3503 Applied Mathematical Statistics I	2
3	Additional degree requirement	4
3	Additional degree requirement	4

Sophomore Year Spring Semester – 16 hours

Hours		*Notes
4	MATH 2914 Differential Equations	2
3	MATH 3403 College Geometry	2
3	MATH 4403 Abstract Algebra	2
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Additional degree requirement	4

Junior Year Fall Semester – 16 hours

Hours		*Notes
3	ECON 2813 Principles of Microeconomics	
3	MATH 4303 Real Analysis I	2
4	PHYS 2903/2911 University Physics I/Lab	
3	Fine Arts/Humanities/ Social Sciences requirement	1
3	Additional degree requirement	4

Junior Year Spring Semester – 17 hours

Hours		*Notes
3	MATH 3603 Mathematical Modeling I	2
1	MATH 3901 Mathematics Seminar	2
4	PHYS 2923/2931 University Physics II/Lab	
3	Mathematics upper-level elective	2 & 3
3	Additional degree requirement	4
3	Additional degree requirement	4

Senior Year Fall Semester – 14 hours

Hours		*Notes
3	MATH 4103 Linear Algebra	2
3	HIST 4203 History of Mathematics	
3	Mathematics upper-level elective	2 & 3
3	Additional degree requirement	4
2	Additional degree requirement	4

Senior Year Spring Semester – 14 hours

Hours		*Notes
2	MATH 4992 Senior Project in Mathematics	2
3	Mathematics upper-level elective	2 & 3
3	Additional degree requirement	4
3	Additional degree requirement	4
3	Additional degree requirement	4

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.
3. Mathematics upper-level electives, nine hours. Consult with faculty advisor to select three 4000 level MATH courses.
4. Additional Degree Requirements, 35 hours to include four hours of general education electives, at least 18 hours of a minor/secondary concentration and open electives as needed to total 124 hours. Consult with faculty advisor. Must select courses to ensure completion of 45 upper-level hours required for graduation. At least 18 hours of courses must be in a discipline other than mathematics satisfying requirements for a minor/secondary concentration as determined by the faculty of the second discipline. In certain cases, courses from multiple disciplines may be used in constructing a coherent concentration in a specific topic. This sequence of courses must be approved by faculty advisor.

The department requires satisfactory performance on the departmental mathematics competency examination as a requirement for graduation.

2	MATH	2702	Mathematics Technology	2 & 4
1	PHYE		activity course	3

Sophomore Year Fall Semester – 16 hours

Hours				*Notes
4	MATH	2904	Calculus III	2
3	MATH	3103	Foundations of Mathematics	2
3	STAT	3503	Applied Mathematical Statistics I	2
3	EDUC	2753	Introduction to Education	4
3	History/Government requirement			1

Sophomore Year Spring Semester – 16 hours

Hours				*Notes
4	MATH	2914	Differential Equations	2
3	MATH	3403	College Geometry	2
3	MATH	4403	Abstract Algebra	2
3	MATH	3803	Mathematics Pedagogy: Numerical Systems	2
3	Fine Arts/Humanities/ Social Sciences requirement			1

Admission to College of Education Teacher Education Program: Students must be admitted into the College of Education prior to enrollment in particular courses.

Mathematics with Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE

Freshman Year Fall Semester – 17 hours

Hours				*Notes
3	English composition requirement			1 & 4
4	MATH	2804	Calculus I	2 & 4
3	SPCH	1203	Introduction to Speech Communication	4
4	SPAN	1304	Beginning Spanish I	
3	Fine Arts/Humanities/ Social Sciences requirement			1

Freshman Year Spring Semester – 16 hours

Hours				*Notes
3	English composition requirement			1 & 4
3	MATH	1903	Introductory Discrete Mathematics	2
4	MATH	2854	Calculus II	2

Junior Year Fall Semester – 18 hours

Hours				*Notes
4	PHYS	2903/2911	University Physics I/Lab	
3	EDUC	3013	Human Development and Learning	5
2	EDUC	3222	Practicum I	5
3	MATH	3813	Mathematics Pedagogy: Spatial Relations or	
		3823	Mathematics Pedagogy: Upper Secondary	2
3	MATH	4103	Linear Algebra	2
3	MATH	4303	Real Analysis I	2

Junior Year Spring Semester – 16 hours

Hours				*Notes
2	EDUC	4222	Assessment	5
3	MATH	3603	Mathematical Modeling I	2
1	MATH	3901	Mathematics Seminar	2
4	PHYS	2923/2931	University Physics II/Lab	

- 3 History/Government requirement 1
- 3 Fine Arts/Humanities/
Social Sciences requirement 1

Senior Year Fall Semester – 14 hours

Hours				*Notes
2	EDUC 3612	Classroom and Behavioral Management		5
1	EDUC 4211	Practicum II		5
2	SPED 3022	Survey of Diverse Populations		5
2	MATH 4992	Senior Project		2
3	MATH 3813	Mathematics Pedagogy: Spatial Relations or		
		3823 Mathematics Pedagogy: Upper Secondary		2
3	HIST 4203	History of Mathematics		2
1	PHYE	activity course		3

Senior Year Spring Semester – 12 hours

Hours				*Notes
2	EDUC 4802	Seminar in Education		5
10	EDUC 490A	Teaching in the Secondary Schools		5

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 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, 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

The department requires satisfactory performance on the departmental mathematics competency examination as a requirement for graduation.

MATHEMATICS MINOR

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
MATH 4203	History of Mathematics
MATH 4303	Real Analysis I
MATH 4353	Real Analysis II
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

The minor in physics is pending approval of the University of Arkansas System Board of Trustees and the Arkansas Higher Education Coordinating Board

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

THE UNIVERSITY CENTER



UA Fort Smith, 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 UA Fort Smith and the junior- and senior-level courses through the sponsoring university. All courses are taught on the UA Fort Smith campus. Registration, financial aid arrangements, and textbooks are processed through UA Fort Smith 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 UA Fort Smith fees.

Students completing their program through the University Center and who need financial assistance may apply through UA Fort Smith's Financial Aid Office, upper level, Smith-Pendergraft Campus Center. UA Fort Smith's policies for tuition refunds apply to University Center courses.

COURSE PREFIX INDEX

ACCT	Accounting	ITD	Information Technology – Database
ADN	Associate Degree Nursing	ITF	Information Technology – Final Capstone
AERO	Air Force (ROTC)	ITN	Information Technology – Networking
ANTH	Anthropology	ITP	Information Technology – Programming
APRO	Administrative Professional and Office Technology	ITW	Information Technology – Web Developer
ART	Art	LAW	Law
ATDI	Automotive and Diesel	LEAD	Leadership
AUTO	Automotive Technology	LEGL	Legal Assistance/Paralegal
BIOL	Biology	LPN	Practical Nursing
BSAT	Animation Technology	MACH	Machine Tool Technology
CADD	Computer-Aided Drafting and Design	MATH	Mathematics
CHEM	Chemistry	MEEG	Mechanical Engineering
CISM	Computer Information Systems – Microcomputer Applications	MGMT	Management
CJ	Criminal Justice	MILS	Military Science – Army ROTC
CNA	Nursing Assistant	MKTG	Marketing
COBI	College of Business Integration	MLED	Middle School Education
COMM	Communication	MUS	Music – Private Instruction
DHYG	Dental Hygiene	MUSC	Music – Class Instruction
DIES	Diesel	MUSI	Music – Basic
ECED	Early Childhood Education	MUSR	Music – Performance
ECON	Economics	NURS	Nursing
EDUC	Education	NUTR	Nutrition
EKG	Electrocardiography	OSS	Overseas Study
ELEC	Electronics	PHAR	Pharmacology
ELEG	Electrical Engineering	PHIL	Philosophy
EMT	Emergency Medical Technology	PHSC	Physical Science
ENGL	English	PHYE	Physical Education
ENGN	Engineering	PHYS	Physics
FIN	Finance	POLS	Political Science
FORL	Foreign Language	PRFS	Professional Studies
FREN	French	PSYC	Psychology
GEOG	Geography	RADT	Radiography Technology
GEOL	Geology	READ	Reading
GERM	German	RELI	Religion
GIPM	General Industrial Plant Maintenance	RHET	Rhetoric and Writing
GRDS	Graphic Design	SOCI	Sociology
HIST	History	SPAN	Spanish
HLTH	Health Sciences	SPCH	Speech
HONR	Honors	SPED	Special Education
HUMN	Humanities	SPEL	Spelling
IDS	Interdisciplinary Studies	STAT	Statistics
IS	Imaging Sciences	SUR	Surgical Technology
ISM	Imaging Sciences Management	TCHG	Technology
ISS	Imaging Sciences Sonography	THEA	Theatre
ITA	Information Technology – Applications	WELD	Welding
ITC	Information Technology – Core	WFL	Workforce Leadership

Course Symbols

UA Fort Smith 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

The Arkansas Course Transfer Systems (ACTS) Numbering System

(<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.

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.

Introduction to the fundamentals of managerial accounting theory and practice. Emphasizes cost accounting and managerial analysis. (ACTS: ACCT 2013)

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. Includes decision models and cost information, cost allocation, and management controls.

ACCT 3053 ACCOUNTING INFORMATION SYSTEMS 3 CR. (3 LEC.)

Prerequisites: MGMT 2103 or challenge exam, ACCT 2813 Principles of Managerial Accounting, and MATH 2403 Survey of Calculus or higher math course.

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 I 3 CR. (3 LEC.)

Prerequisites: ACCT 3013 Intermediate Accounting II and 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 447V INDEPENDENT STUDY IN ACCOUNTING 1-3 CR. (VARIABLE)

Prerequisites: admission to the College of Business and consent of instructor and department chair.

Pre 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.

Pre 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.

Pre 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 Associate Degree Nursing

Enrollment in courses beginning with the ADN prefix requires admission to the nursing technology program.

ADN 1508 NURSING FUNDAMENTALS 8 CR. (4 LEC., 8 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 151A ADULT MEDICAL/SURGICAL I 10 CR. (4 LEC., 12 LAB)

Prerequisites: ADN 1508 Nursing Fundamentals, and CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Prerequisites or corequisites: BIOL 1463/1461 Microbiology and Immunology/Lab or higher microbiology/lab course.

Allows students to reinforce the application of the nursing process to the roles of the associate degree nurse, which include assessment and intervention skills, communication skills, critical thinking skills, human caring and relationship skills, teaching skills, management skills, leadership skills, and knowledge and integration skills. Maslow’s hierarchy is used to identify and prioritize the needs of both surgical and medical/surgical adult clients with common health problems.

ADN 154A NURSING TECHNOLOGY TRANSITION 10 CR. (4 LEC., 12 LAB)

Prerequisites: MATH 1403 College Algebra, BIOL 1523/1521 Anatomy and Physiology I/Lab, BIOL 1533/1531 Anatomy and Physiology II/Lab, BIOL 1463/1461 Microbiology and Immunology/Lab, CHEM 1303 Chemical Principles, acceptance for advanced placement in the associate degree nursing program, and CPR Certification: American Heart

Association “CPR for Healthcare Providers.”

Allows LPN students to reinforce the use of critical thinking in the application of the nursing process to the roles of the associate degree nurse, which include assessment and intervention skills, 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 surgical client and the adult client with common health problems.

ADN 155A NURSING TECHNOLOGY BRIDGE 10 CR. (4 LEC. 12 LAB)

Prerequisites: MATH 1403 College Algebra, BIOL 1523/1521 Anatomy and Physiology I/Lab, BIOL 1533/1531 Anatomy and Physiology II/Lab, BIOL 1463/1461 Microbiology and Immunology/Lab, CHEM 1303 Chemical Principles, acceptance for advanced placement in the associate degree nursing program, and CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Allows paramedic students to reinforce the use of critical thinking in the application of the nursing process to the roles of the associate degree nurse, which include assessment and intervention skills, 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 surgical client and the adult client with common health problems.

ADN 2719 MATERNAL, CHILD, & MENTAL HEALTH 9 CR. (3 LEC. 12 LAB)

Prerequisites: ADN 151A Adult Medical/Surgical I, or ADN 154A Nursing Technology Transition, or ADN 155A Nursing Technology Bridge, and CPR Certification: American Heart Association “CPR for Healthcare Providers.”

Allows students to reinforce 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. 10 LAB)

Prerequisites: ADN 2729 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.

Allows students to reinforce 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. 4 LAB)

Prerequisites: ADN 271A 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 UA Fort Smith students. Students enroll for the AERO courses through UA

Fort Smith 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 UA Fort Smith.

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.

AERO 4023 AMERICAN NATIONAL SECURITY/PREPARATION FOR ACTIVE DUTY II 3 CR. (3 LEC., 2 LAB)

Prerequisites: senior standing and successful completion of the summer field -training.

Continuation of AERO 4013. 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 I.

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 I.

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 I

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 corequisite: APRO 2143 Legal writing and APRO 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 instructor consent.

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: Prerequisites: 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.

Designed for the advanced administrative professional student who has completed or enrolled in all other appropriate administrative professional courses offered at UA Fort Smith. 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.)

Pre 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 2303 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 chair.

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 chair.

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 chair.

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 chair.

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 chair.

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 permission 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 chair.

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 chair.

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 permission 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 AUTO MECHANICS: 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 UA Fort Smith. 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 1CR. (2 LAB)

Prerequisite or corequisite: BIOL 1153 Biological Science.

Complements Biological Science (BIOL 1153). 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.)

Prerequisite or corequisite: BIOL 1151 Biological Science Laboratory.

General principles of biology and their relationship to society. Focus is on natural laws, 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 instructor permission.

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 that 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 instructor permission.

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 instructor permission.

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 instructor permission.

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 instructor permission.

Prerequisite or corequisite: BIOL 1533 Anatomy and Physiology II or instructor permission.

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 instructor permission

Prerequisite or corequisite: BIOL 1531 Anatomy and Physiology II Laboratory or instructor permission.

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 21 or higher.

A majors-level 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.

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 Botony/Lab or permission 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 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 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: STAT 2503 Probability and Statistics; one of the following: BIOL 2303/2301 General Botany/Lab or BIOL 2503/2501 General Microbiology/Lab or BIOL 2703/2701 General Zoology/Lab; and CHEM 1403/1401 College Chemistry I/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 or higher MATH equivalent to ACT MATH 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 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 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 permission 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)**

Prerequisite: 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 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 permission 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.

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.

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.

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.

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.

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.

**BSAT 3893 COMPUTER
COLOR APPLICATIONS 3 CR. (2 LEC., 4 LAB)**

Prerequisite: CADD 2624 Photoshop Applications.

Prerequisite or corequisite: BSAT 3084 3D Advanced Concepts.

Knowledge and understanding of the systems of computer color application as it applies to digital drawings and renderings.

**BSAT 3993 APPLYING CAD
TECHNOLOGIES 3 CR. (2 LEC., 2 LAB)**

Prerequisite: Consent of department.

Prerequisite or corequisite: BSAT 3084 3D Advanced Concepts.

Basics of CAD training techniques includes software

and equipment especially beneficial to the instruction of CAD.

BSAT 4003 ENGINEERING AND ARCHITECTURE APPLICATIONS 3 CR. (2 LEC., 2 LAB)

Prerequisite: BSAT 3053 Recording Methods for Historic Structures or consent of department.

Prerequisites or corequisites: BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.

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.

BSAT 4013 SCIENCE AND MEDICAL APPLICATIONS 3 CR. (2 LEC., 2 LAB)

Prerequisite: Senior standing in BSAT program or consent of department.

Prerequisites or corequisites: BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.

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.

BSAT 4023 MANUFACTURING AND ROBOTICS APPLICATIONS 3 CR. (2 LEC. 2 LAB)

Prerequisite: Senior standing in BSAT program or consent of department, and BSAT 3014 Modeling Processes.

Prerequisites or corequisites: BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for Applied Animation, and BSAT 3043 Lighting and Rendering.

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.

BSAT 490V ADVANCED SPECIAL PROJECTS 2-4 CR. (VARIABLE)

Prerequisite: Senior standing in BSAT program or consent of department.

Prerequisites or corequisites: BSAT 3023 Digital Production Techniques, BSAT 3033 Motion for

Applied Animation, and BSAT 3043 Lighting and Rendering.

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 chair. May be repeated for a total of eight hours.

BSAT 4044 SENIOR CAPSTONE PROJECT 4 CR. (2 LEC., 4 LAB)

Prerequisite: Senior standing in BSAT program or consent of department.

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.

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.

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.

Prerequisite or corequisite: CADD 1234 Engineering Graphics I or consent of department, 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.

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.

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.

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.

CHEM Chemistry

**CHEM 1301 CHEMICAL
PRINCIPLES LABORATORY 1 CR. (3 LAB)**

Prerequisite: MATH 1203 or higher level mathematics course.

Prerequisite or 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.

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 1314 ORGANIC
PHYSIOLOGICAL CHEMISTRY 4 CR. (3 LEC., 3 LAB)**

Prerequisite: CHEM 1303/1301 Chemical Principles/Lab or equivalent.

The second of two courses designed for students who major in nursing, home economics, agriculture, etc., and for those who need to fill a general education requirement in science. (ACTS: CHEM 1224)

**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 2404 FUNDAMENTALS OF ORGANIC AND BIOCHEMISTRY 4 CR. (3 LEC., 3 LAB)

Prerequisite: CHEM 1413/1411 College Chemistry II/Lab.

The structure, nomenclature, properties, and reactions of functional groups. The relationship of the functional group to biologically active substances and the role played in major metabolic pathways is emphasized. This is a terminal course not to be used as a prerequisite to more advanced chemistry courses.

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, CHEM 1411 College Chemistry II Laboratory.

Prerequisite or Corequisite: CHEM 2701 Organic Chemistry I Laboratory.

The first in a two course sequence covering the physical and chemical properties, and structural analysis of aliphatic and aromatic hydrocarbons, alkyl halides, and alcohols.

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 2703/2701 Organic Chemistry I/Lab.

Prerequisite or corequisite: CHEM 2711 Organic Chemistry II Laboratory.

The second in a two course sequence covering the physical and chemical properties of aliphatic and aromatic hydrocarbons, alkyl halides, and alcohols.

CHEM 3202 CHEMICAL LITERATURE 2 CR. (2 LEC.)

Prerequisite: CHEM 2713/2711 Organic Chemistry II/Lab.

Methods of abstracting information from the body of chemical literature. Practice in preparing and presenting a literature-based chemical topic.

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 2713/2711 Organic Chemistry II/Lab, and BIOL 1153/1151 Biological Science/Lab.

Introduction to molecules and chemical reactions of living systems. Structure and function of important classes of biomolecules and the relationships of structure to function are explored. Basic metabolic sequences are discussed.

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 400V CHEMISTRY RESEARCH 3 CR. (3 LEC.)

Prerequisite: Chemistry major, completion of at least 12 hours of chemistry, junior standing, and consent of instructor.

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 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, PHYS 2923/2931 University Physics II/Lab.

Recommended prerequisite or corequisite: CHEM 3604 Analytical Chemistry.

Includes thermodynamics, chemical equilibrium, phase equilibrium, and chemistry of solutions.

**CHEM 4514
PHYSICAL CHEMISTRY II 4 CR. (3 LEC., 3 LAB)**

Prerequisite: CHEM 4504 Physical Chemistry I.

Topics include quantum mechanics, atomic and molecular structure, the periodic table, chemical bonding, and kinetics.

**CHEM 4614
INSTRUMENTAL ANALYSIS 4 CR. (3 LEC., 3 LAB)**

Prerequisites: CHEM 3604 Analytical Chemistry, CHEM 4514 Physical Chemistry II.

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.

**CHEM 4704
INORGANIC CHEMISTRY 4 CR. (3 LEC., 3 LAB)**

Prerequisite: CHEM 4514 Physical Chemistry II.

Prerequisite or corequisite: CHEM 3604 Analytical Chemistry.

Explores group theory and symmetry, molecular structure and -bonding, inorganic crystals, and mechanisms.

**CHEM 4902 CHEMISTRY:
SPECIAL TOPICS 2 CR. (2 LEC. AND/OR LAB)**

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 UA Fort Smith. 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 instructor consent.

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.

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

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 1033 FOUNDATIONS OF BUSINESS 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.

COBI 2033 SOCIAL RESPONSIBILITY AND ETHICS IN BUSINESS 3 CR. (3 LEC.)

Prerequisite: COBI 1033 Foundations of Business

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.

COBI 3033 NEW VENTURE CREATION 3 CR. (3 LEC.)

Prerequisite: COBI 2033 Fundamentals of Managerial Effectiveness and admission to the College of Business.

Prerequisites or corequisites: MKTG 3013 Principles of Marketing Management, FIN 3713 Business Finance, and MGMT 3523 Operations Management or consent of instructor for majors outside the College of Business.

Focuses on entrepreneurship and new venture creation as an essential business function. Course materials address the needs of start-up businesses. Students will work in teams to explore a business idea and prepare preliminary market research and location analysis. In addition, students must consider human and financial needs of the venture. Leads to the preparation and presentation of a feasibility study on the new business venture.

COBI 3533 INTERNATIONAL BUSINESS EXPERIENCE 3 CR. (VAR.)

Prerequisite: COBI 2033 Fundamentals of Managerial Effectiveness and admission to the College of Business, or consent of instructor for majors outside the College of Business.

Provides students the opportunity to learn about: 1) cultural differences between the United States and another foreign country, and 2) business practices in the foreign country. Includes on-campus instruction and a study abroad experience.

COBI 4033 BUSINESS PLAN COMPETITION 3 CR. (VAR.)

Prerequisite: COBI 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.

COBI 4813 STRATEGIC MANAGEMENT 3 CR. (3 LEC.)

Prerequisites: FIN 3713 Business Finance, MGMT 3153 Organizational Behavior, MGMT 3523 Operations Management, MKTG 3013 Principles of Marketing Management and admission to the college of Business. Course must be taken in residence at UA Fort Smith.

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.

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 4223 BROADCASTING
FOR NEW MEDIA**

3 CR. (3 LEC.)

Prerequisite: COMM 2203 Introduction to Mass Communication or consent of instructor.

Survey of the tools and practices of broadcast media as it has evolved during the 21st century and applications for mass communications 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

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.

COMM 493V

INDEPENDENT PROJECT

1-3 (IND. STU.)

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

1-3 (VAR.)

Prerequisites: 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

DHYG Dental Hygiene

Enrollment in courses with the DHYG prefix requires admission to the dental hygiene program.

**DHYG 1103 PRECLINICAL
DENTAL HYGIENE THEORY**

3 CR. (3 LEC.)

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

1 CR. (1 LEC.)

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

3 CR. (3 LEC.)

Prerequisite: DHYG 1103 Preclinical Dental Hygiene Theory.

Corequisite: DHYG 1213 Dental Hygiene Clinic I.

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

2 CR. (8 LAB)

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 2 CR. (2 LEC.)

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 RADIOLOGY 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 PERIODONTOLOGY 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.

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.)

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.

ECED 1401 EARLY CHILDHOOD FIELD EXPERIENCE I 1 CR. (1 LEC.)

Corequisites: ECED 1304 Developmentally Appropriate Practice in Early Childhood Education and ECED 2003 Guidance and Behavioral Management.

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 1304 and ECED 2003.

ECED 1411 EARLY CHILDHOOD FIELD EXPERIENCE II 1 CR. (1 LEC.)

Corequisites: ECED 2033 Child Development and ECED 2023 Foundations of Early Childhood Education.

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 2023 and ECED 2033.

ECED 1421 EARLY CHILDHOOD FIELD EXPERIENCE III 1 CR. (1 LEC.)

Corequisites: ECED 1051 Art in ECE Classroom, ECED 2073 Music and Movement, and ECED 2083 Essential Early Childhood Literacy & Language

Observing, recording, and interpreting human growth and development within the early childhood environment from prenatal period through age five with emphasis on observation of the relationship

between growth and development to art, music, and literacy in connection with ECED 1051, ECED 2073, and ECED 2083.

ECED 2003 GUIDANCE AND BEHAVIOR MANAGEMENT 3 CR. (3 LEC.)

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 NAEYC standards and the Arkansas B-4 frameworks.

ECED 2023 FOUNDATIONS OF EARLY CHILDHOOD EDUCATION 3 CR. (3 LEC.)

Corequisite: ECED 2033 Child Development

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 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 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 NAEYC 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. (2 LEC., 1 LAB)

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 NAEYC standards, the Pathwise Criteria, the INTASC principles, the Arkansas teacher licensure standards, and the Arkansas infant toddler, three- and four-year-old and P-4 frameworks. Requires a 10-hour field experience that requires a current TB test.

ECED 2093 HEALTH SAFETY AND NUTRITION FOR YOUNG LEARNERS 3 CR (3 LEC.)

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, and EDUC 3003 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, and EDUC 3003 Introduction to Educational Technology.

Corequisite: ECED 3023 Foundation 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, MATH 2333 Structures of Arithmetic, and MATH 2343 Informal Geometry.

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.

Corequisites: ECED 3113 Integrated Curriculum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I and ECED 3193 Children's Literature.

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.

Corequisites: ECED 3113 Integrated Curriculum I, ECED 3122 Practicum I, ECED 3173 Guiding Children, and ECED 3193 Children's Literature.

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.

Corequisites: ECED 3213 Integrated Curriculum II, ECED 3222 Practicum II, ECED 3263 Early Childhood Assessment.

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 490C EARLY CHILDHOOD
EDUCATION INTERNSHIP 12 CR. (40 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. Course is an internship of 40 hours per week.

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 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 chair.

Pre 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.

Pre 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/SCIENCE IN THE EARLY CHILDHOOD CLASSROOM 3 CR. (3 LEC.)

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 3003 INTRODUCTION TO EDUCATIONAL TECHNOLOGY 3 CR. (3 LEC.)

Prerequisite: required computer literacy placement score, or ITA 1003 Computer Applications for the Knowledge Worker, or CISM 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 secondary and K-12 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 3222 PRACTICUM I 2 CR. (1 LEC., 5 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.

Designed to provide prospective teachers with field-based experiences. Requires classroom attendance of one hour per week and participation of five 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 490C 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 cumulation 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.

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.

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)

Prerequisites: advanced electronics student and consent of department.

Designed for the advanced electronics student who has completed or is enrolled in all other appropriate electronics courses offered at UA Fort Smith. 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.

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.

Covers configuration/tuning/programming of Mint servo drive: torque/current, speed and position PID Loops. 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.

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.

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.

Introduction to circuit variables, elements, and simple resistive circuits. Analysis techniques applied to resistive circuits. The concepts of inductance, capacitance and mutual inductance. The natural and step responses of RL, RC, and RLC circuits.

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 prewriting 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.

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.

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.

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.

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.

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.

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.

Prerequisite or corequisite: RHET 3203 Textual Research Methods.

A critical study of canonical works of the British Isles from the beginnings to the early eighteenth century.

**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, socio-cultural, 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 4313 SECOND LANGUAGE TEACHING METHODS 3 CR. (3 LEC.)

Prerequisite: junior standing or consent of the department.

Comprehensive approach to curriculum design, instruction, and assessment of second language programs combining theory and practice.

ENGL 4323 SECOND LANGUAGE ACQUISITION 3 CR. (3 LEC.)

Prerequisite: junior standing or consent of the department.

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.

ENGL 4333 SECOND LANGUAGE ASSESSMENT 3 CR. (3 LEC.)

Prerequisite: junior standing or consent of the department.

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.

ENGL 4343 TEACHING PEOPLE OF OTHER CULTURES 3 CR. (3 LEC.)

Prerequisite: junior standing or consent of the department.

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.

ENGL 4773 EIGHTEENTH CENTURY BRITISH LITERATURE 3 CR. (3 LEC.)

Prerequisite: ENGL 2033 Cultural Studies.

Prerequisite or corequisite: RHET 3203 Textual Research Methods.

Students analyze and discuss major works of literature produced between 1690 and 1789 in the British Isles.

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 1121 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 chair.

Pre 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.

Pre 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 permission of department chair.

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 PRACTICUM 2 CR. (2 LAB)

The purpose of this course is to maintain and increase aural/oral fluency and to build a large vocabulary in Spanish while observing and participating in the cultural environment of a Spanish-speaking country. It may be repeated for credit.

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 UA Fort Smith. 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.

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 .

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.

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 .

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 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.

**GEOG 4903 SPECIAL TOPICS
IN GEOGRAPHY** **3 CR. (3 LEC.)**

Prerequisite: GEOG 2753 World Regional Geography or consent of instructor.

Study of selected topics in Geography. Course content varies. Special topics 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 when topics differ.

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 1001 or consent of instructor.

Corequisite: GRDS 2243 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 chair.

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 fulltime 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 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
MIEVEAL 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 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 colonization 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 character 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.

HIST 3513 RUSSIA SINCE 1855 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.

The study of Russia from Alexander II through the rise and eventual collapse of the Soviet Union.

HIST 3603 PRE-COLONIAL AFRICA TO 1900 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.

The history of Africa from the earliest times to beginning of European imperial control.

HIST 3613 COLONIAL AFRICA 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.

Examines the causes of European imperialism in Africa, the African reaction to European colonialism, and the impact of colonial rule on Africa.

HIST 3623 CONTEMPORARY AFRICA 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 postcolonial Africa with emphasis on the socio-cultural, political, and economic transformations since the end of colonial rule.

HIST 3803 METHODS OF HISTORICAL RESEARCH 3 CR. (3 LEC.)

Prerequisite: 12 hours of history.

Techniques of historical research, critical analysis of historical texts, and written and oral presentation of research results and analysis.

HIST 3903 METHODS OF HISTORIC SITE INTERPRETATION 3 CR. (2 LEC., 2 LAB)

Prerequisite: ENGL 1213 Freshman English II.

An overview of the challenges, methods, and unique aspects of interpreting historic sites.

HIST 4113 THE AMERICAN WEST: TRANS-MISSISSIPPI 3 CR. (3 LEC.)

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.

HIST 4123 AFRICAN-AMERICAN HISTORY TO 1865 3 CR. (3 LEC.)

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.

HIST 4133 AFRICAN-AMERICAN HISTORY SINCE 1865 3 CR. (3 LEC.)

Study of the socioeconomic, cultural, and political development of African-Americans from the end of the Civil War to the present.

HIST 4153 HISTORY OF ARKANSAS 3 CR. (3 LEC.)

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.

HIST 4203 HISTORY OF MATHEMATICS 3 CR. (3 LEC.)

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.

HIST 4213 PERSPECTIVES OF WOMEN IN WORLD HISTORY 3 CR. (3 LEC.)

An examination of the conditions of women in history with emphasis on problems in European history; attitudes toward women as reflected in religious, legal, and philosophical literature; and the role of expectations of women in various societies.

HIST 4303 HISTORY OF SOUTHEAST ASIA 3 CR. (3 LEC.)

Studies of the natural history, human habitation, emerging civilizations, colonization, modern responses for independence, and effects of war on Southeast Asian states and their people.

HIST 4313 MEDIEVAL MIDDLE EAST: 476-1453 3 CR. (3 LEC.)

Study of the Byzantine Empire, Islam, the Crusades, and the Ottoman Turks.

HIST 4503 INTRODUCTION TO PUBLIC HISTORY 3 CR. (3 LEC.)

Prerequisites: junior standing, major in history or consent of instructor.

Introduces methods and practices of public history.

HIST 4524 BASIC SKILLS IN INTERPRETATION 4 CR. (3 LEC., 1 LAB)

Prerequisite: HIST 4503 Introduction to Public History or consent of instructor.

Introduces skills and methods of interpretation, including both historical and natural interpretation.

HIST 4533 INTERPRETATION TRAVEL SEMINAR 3 CR. (3 LEC.)

Prerequisite: HIST 4503 Introduction to Public History or consent of instructor.

Provides an opportunity for students to become familiar with a variety of historical and natural attractions. Students spend two weeks traveling to several sites in the region to observe the diversity of park operations and opportunities.

HIST 4554 INTERPRETATION PLANNING 4 CR. (3 LEC., 1 LAB)

Prerequisite: HIST 4503 Introduction to Public History or consent of instructor.

Interpretive planning for historic sites and museums.

HIST 4564 COMMUNICATING THROUGH EXHIBITS 4 CR. (3 LEC., 1 LAB)

Prerequisite: HIST 4503 Introduction to Public History or consent of instructor.

Focuses on the use of traditional and multimedia exhibits in historical interpretation. Students study the methodology of exhibits and create their own exhibits.

HIST 4573 CONSERVATION OF HERITAGE RESOURCES 3 CR. (3 LEC.)

Prerequisite: HIST 4503 Introduction to Public History or consent of instructor.

Conservation and utilization of historical and heritage sites.

HIST 4803 SEMINAR IN U.S. HISTORY 3 CR. (3 LEC.)

Prerequisites: senior standing, 15 credit hours of U.S. History, and HIST 3803 Methods of Historical Research.

Advanced study of a topic in United States history chosen by instructor; includes a major research and writing project incorporating the goals of identifying a problem; establishing a thesis; gathering, evaluating,

and analyzing evidence; and writing in an appropriate scholarly format.

HIST 4813 SEMINAR IN ARKANSAS HISTORY 3 CR. (3 LEC.)

Prerequisites: HIST 4153 History of Arkansas and consent of instructor.

Discussion, directed readings, research, and writing on selected issues. Advanced study of a topic in Arkansas history chosen by instructor; includes a major research and writing project incorporating the goals of identifying a problem; establishing a thesis; gathering, evaluating, and analyzing evidence; and writing in an appropriate scholarly format. May be repeated, when topics differ, for a total of six hours.

HIST 4823 TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL 3 CR. (3 LEC.)

Prerequisites: EDUC 3013 Human Development and Learning, EDUC 3112 Literacy Development in the Content Area, and EDUC 3222 Practicum I.

Subject matter applications for secondary teacher education candidates (grades 7-12) in social studies. Incorporates a variety of instructional models, activities and examples as well as the integration of traditional and nontraditional resource materials. Course must be completed prior to student teaching.

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. (VARIABLE)

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 Technology I; NURS 3227 Foundations of Nursing Care; DHYG 1213 Dental Hygiene Clinic I; SUR 153A Surgical Technology Procedures 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.

HONR Honors

**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.

HUMN 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. Primary learning objectives are the general education competencies of communications skills, global and cultural perspectives, analytical skills, personal responsibility skills, computer literacy, scientific and technological literacy, information literacy, social interaction, and creativity.

IDS 1401 LEADERSHIP DEVELOPMENT SEMINAR

1 CR. (1 LEC., 1 LAB)

Prerequisites: IDS 1203 Foundations of Learning and consent.

Explores the frequently discussed, but difficult to define, concept of leadership. Throughout history effective leaders have exhibited a wide range of behaviors, practices, and skills. Leads students through an investigation of leadership characteristics and practices using three learning strategies: 1) reading carefully selected excerpts of speeches, writings, and biographies, 2) viewing and analyzing film and videotaped examples of active leadership, and 3) participating in experiential exercises both as leaders and as followers. Course required of Foundations of Learning peer leaders. May be repeated for a total of four hours.

IDS 1403 LEADERSHIP DEVELOPMENT STUDIES

3 CR. (3 LEC.)

Explores the frequently discussed, but difficult to define, concepts of leadership. Designed to provide emerging and existing leaders the opportunity to explore the concept of leadership and to develop and improve their leadership skills, the course integrates readings from the humanities, experiential exercises, films, and contemporary readings on leadership. Leads students through an investigation of leadership characteristics and practices using three learning strategies: 1) reading carefully excerpts of speeches, writings and biographies, 2) viewing and analyzing film and videotaped examples of active leadership, and 3) participating in experiential exercises both as leaders and as followers.

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.)

Presents 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 4313 HEALTHCARE SYSTEMS 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 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.

Corequisites: ISS 3103 Acoustical Physics and Instrumentation I and ISS 3113 Cross Sectional Anatomy for Sonographers.

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.

Corequisites: ISS 3113 Cross-Sectional Anatomy for Sonographers and ISS 3102 Clinical Lab Practice.

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 critique 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, superficial parts, pelvis, abdominal vasculature, 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.

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.

ITF Information Technology - Final Capstone

ITF 2114 CAPSTONE PROJECT 4 CR. (4 LEC.)

Prerequisite: consent of the Information Technology Department.

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.

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 student 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 student 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: ITC 2334 Advanced Programming.

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: ITF 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 chair.

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 departmental permission.

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. 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.

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.

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.

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.

LEGL 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.

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.

LEGL 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 new Americans with Disabilities Act), workers' compensation, and Social Security Administrative law. Students will become familiar with legal documentation related to this field.

LEGL 2252 FAMILY LAW 2 CR. (2 LEC.)

Prerequisite: LEGL 2133 Torts or consent of department.

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.

LEGL 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.

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.

LEGL 2382 LEGAL ETHICS 2 CR. (2 LEC.)

Prerequisites or corequisites: LEGL 2133 Torts and LEGL 2143 Legal Writing or consent of department.

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.

LEGL 2553 REAL ESTATE LAW 3 CR. (3 LEC.)

Prerequisite: LEGL 2133 Torts or consent of department.

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.

LEGL 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.

LEGL 2643 COMMERCIAL LAW 3 CR. (3 LEC.)

Prerequisite: LEGL 2323 Civil Litigation or consent of department.

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.

LEGL 2712 BANKRUPTCY 2 CR. (2 LEC.)

Fundamentals of bankruptcy law. Emphasis will be on practical aspects of the process, and students will draft the necessary documents in the filing of a bankruptcy.

LEGL 2723 CRIMINAL LAW 3 CR. (3 LEC.)

Prerequisite: LEGL 1043 Introduction to Law or consent of department.

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.

LEGL 2753 WILLS, TRUSTS, AND PROBATE 3 CR. (3 LEC.)

Prerequisite: LEGL 2323 Civil Litigation or consent of department.

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.

LEGL 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.

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.

LEGL 2772 BUSINESS ORGANIZATIONS 2 CR. (2 LEC.)

Prerequisites: LEGL 2323 Civil Litigation or consent of department.

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.

LEGL 2823 TRIAL PRACTICE 3 CR. (3 LEC.)

Prerequisite or corequisite: LEGL 2323 Civil Litigation or consent of department.

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. (4 LEC., 18 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. (4 LEC., 18 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. (4 LEC., 18 LAB)**

Prerequisites: LPN 118A Fundamentals I, LPN 119A Fundamentals II, BIOL 1433/1431 Basic Anatomy and Physiology/Lab, and CPR Certification: American Heart Association, “CPR for Healthcare Providers.”

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. (4 LEC., 18 LAB)**

Prerequisites: LPN 118A Fundamentals I, LPN 119A Fundamentals II, LPN 121A Medical/Surgical I, BIOL 1433/1431 Basic Anatomy and Physiology/Lab, and CPR Certification: American Heart Association, “CPR for Healthcare Providers.”

Pre 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. (6 LEC., 24 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.

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.

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.

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.

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.

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, 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.

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.

Designed for the advanced machining student who has completed or is enrolled in all other appropriate machining courses offered at UA Fort Smith. 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 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)

MATH 1403X COLLEGE ALGEBRA (EXTENDED FORMAT) 3 CR. (5 LEC.)

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.

MATH 1406 INTEGRATED INTERMEDIATE AND COLLEGE ALGEBRA 6 CR. (6 LEC.)

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.

MATH 1453 PLANE TRIGONOMETRY 3 CR. (3 LEC.)

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)

MATH 1715 PRECALCULUS MATHEMATICS 5 CR. (5 LEC.)

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)

MATH 1903 INTRODUCTORY DISCRETE MATHEMATICS 3 CR. (3 LEC.)

Prerequisite: MATH 1715 Precalculus Mathematics.

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.

MATH 2333 STRUCTURES 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 INFORMAL 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 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 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. or 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 LINEAR ALGEBRA 3 CR. (3 LEC.)

Prerequisite: MATH 3103 Foundations of Mathematics or MATH 3205 Pure Mathematics.

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 4353 REAL ANALYSIS II 3 CR. (3 LEC.)

Prerequisite: MATH 4103 Linear Algebra and MATH 4303 Real Analysis I.

The study of real analysis in dimensions greater than one. Topics in this course include continuously differentiable functions, the chain rule, inverse and implicit function theorems, Riemann integration and the change of variables theorem.

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 4103 Linear Algebra and one of 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: MATH 3603 Mathematical Modeling I and 18 additional hours of 3000- or 4000-level mathematics.

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 3 CR. (3 LEC.)

Prerequisites: MATH 2904 Calculus III, PHYS 2903/2911 University Physics I/Lab.

A combined course covering basic parts 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 3 CR. (3 LEC.)

Prerequisites: PHYS 2903 University Physics I, ENGN 2753 Engineering Statics, CADD 1302 Graphics for Engineers.

Introduction to kinematics and kinetics of mechanisms, static and dynamic forces, and gears and cam design and analysis.

MEEG 2303 INTRODUCTION TO MATERIALS 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 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 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 2103 BASIC BUSINESS COMPUTING 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, PowerPoint, and Access are addressed. Topics are presented and applied in a business context.

MGMT 2863 BUSINESS COMMUNICATIONS 3 CR. (3 LEC.)

Prerequisites: or 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 3 CR. (3 LEC.)

Prerequisite: MATH 1403 or higher MATH and 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 3153 ORGANIZATIONAL BEHAVIOR 3 CR. (3 LEC.)

Prerequisites: junior standing, COBI 2033 Fundamentals of Managerial Effectiveness 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: MGMT 3153 Organizational Behavior and 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 chair.

Pre 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.

Pre 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.

MILS Military Science - Army ROTC

The U.S. Army offers the Military Science-Army ROTC program for interested UA Fort Smith students. Scholarships and financial assistance are available for interested, qualified students. For program and scholarship information, contact the UA Fort Smith 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 officership, 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 approval by professor of military science.

Examines 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 COBI 2033 Fundamentals of Managerial Effectiveness, 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 markets, 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 3132 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 chair.

Pre or corequisite: may vary depending on topic.

Individual problems or topics in marketing arranged in consultation with instructor.

**MKTG 457V SPECIAL TOPICS
IN MARKETING 1-3 CR. (VARIABLE)**

Prerequisites: Admission to the College of Business or consent of instructor.

Pre 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 maximum of nine total 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 is required for MUSP 3251; 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: music major or consent of instructor.

Designed for voice students 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 nonwestern 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.

MUSI 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.

MUSI 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.

**MUSI 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.

**MUSI 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.

MUSI 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.

**MUSI 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.

**MUSI 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.

MUSI 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.

MUSI 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.

MUSR 1010 ATHLETIC BAND 0 CR. (3 LAB)

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.

MUSR 1201 JAZZ LAB ENSEMBLE 1 CR. (2 PART.)

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.

MUSR 1351**INSTRUMENTAL ENSEMBLES 1 CR. (2 PART.)**

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.

MUSR 1361 VOCAL PERFORMANCE WORKSHOP 1 CR. (3 LAB)

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.

MUSR 1411 JAZZ BAND 1 CR. (3 PART.)

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.

MUSR 1421 CHORALE 1 CR. (4 PART.)

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.

MUSR 1441 SYMPHONIC BAND 1 CR. (4 PART.)

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.

MUSR 1451 VOCAL JAZZ 1 CR. (3 PART.)

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.

MUSR 1461 WOMEN'S CHORUS 1 CR. (2 PART.)

Prerequisite: audition.

Ensemble open to all with treble voices (soprano/alto). 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.

**MUSR 3201
JAZZ LAB ENSEMBLE 1 CR. (2 PART.)**

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.

**MUSR 3351 INSTRUMENTAL
ENSEMBLE 1 CR. (2 PART.)**

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.

**MUSR 3361 VOCAL PERFORMANCE
WORKSHOP 1 CR. (3 PART.)**

Prerequisite: audition

Focuses on preparation and performance of scenes from musical theatre, operas, and operettas. Emphasis 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 permission 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 permission 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., 2 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., 3 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 UA Fort Smith BSN program's requirement for health assessment.

NURS 3227 FOUNDATIONS OF NURSING CARE 7 CR. (3 LEC., 8 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., 6 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., 8 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: 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: HLTH 4103 Research in the Health Sciences.

Explores the normal process of aging, common bio-psycho-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. (8 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., 16 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., 6 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., 4 LAB)

Prerequisites: HLTH 4103 Research in the Health Sciences and NURS 434C Nursing Care of the Adult II.

Corequisite: NURS 4355 Nursing Care of the Critically Ill Adult and 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., 8 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 focus of course. Students explore the role of the nurse in the community, 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., 6 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 introduced, and the role of the community health nurse as a facilitator of change is explored. Emphasis 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., 4 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.

OSS 460V OVERSEAS STUDY 1 – 6 CR. (VARIABLE)

Prerequisite: junior standing

Provides an international perspective and learning experience. Language, history, and culture are analyzed 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 permission 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 students 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)

PHYE 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.

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: 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 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 2903 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)

PHYS 2911 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.

PHYS 2923 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)

PHYS 2931 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.

PHYS 2933 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.

PHYS 3103 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 Schrodinger equation for simple bound-state and scattering problems.

PHYS 3203 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.

PHYS 3303 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.

PHYS 3403 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.

PHYS 3503 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.

PHYS 3803 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.

POLS Political Science

POLS 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 3103 COMPARATIVE POLITICAL INSTITUTIONS 3 CR. (3 LEC.)

Prerequisite: POLS 2753 American National Government.

A study of governments around the world.

POLS 3113 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 3123

THE AMERICAN PRESIDENCY 3 CR. (3 LEC.)

Prerequisite: POLS 2753 American National Government

The study of the American Presidency.

POLS 3133 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 3143

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 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 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 INTERSHIP 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 chair. 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 instructor.

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 instructor.

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, and design of accounting systems. Attention will be paid to the concepts of engineering economy, including 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 instructor.

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 instructor.

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 instructor.

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 instructor.

This course is 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 instructor.

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 instructor.

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 and one of the following: A minimum of two (2) years manufacturing experience or consent of instructor.

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. Designed with respect to the advanced manufacturing technology program.

PRFS 4713 BUSINESS LOGISTICS 3 CR. (3 LEC.)

Prerequisite: Senior standing and one of the following: A minimum of two (2) years manufacturing experience or consent of instructor.

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. Tradeoffs and the interaction of various system components are explored.

PRFS 4723 WORK DESIGN 3 CR. (3 LEC.)

Prerequisite: Senior standing or consent of department.

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.

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.

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.

Specialized study of various topics in professional studies. May be repeated, when topics differ, for a total of nine hours.

PRFS 4954 PRACTICUM – QUALITY ASSURANCE**4 CR. (4 IND. STU.)**

Prerequisite: consent of instructor.

Student applies knowledge of theories, methods, and problems from previous coursework to observe, study, and recommend procedures to enhance or improve quality. Structured field experiences of 400 hours supervised by workplace mentor and assisted by faculty with related experience.

PRFS 4964**PRACTICUM – SUPERVISION 4 CR. (4 IND. STU.)**

Prerequisite: consent of instructor.

Student applies knowledge of theories, methods and problems from previous coursework to observe, study, and recommend procedures to enhance or improve supervision. Structured field experience of 400 hours supervised by workplace mentor and assisted by faculty with related experience.

PRFS 4974**PRACTICUM – PRODUCTIVITY 4 CR. (4 IND. STU.)**

Prerequisite: consent of instructor.

Student applies knowledge of theories, methods and problems from previous coursework to observe, study, and recommend procedures to enhance or improve productivity. Structured field experience of 400 hours supervised by workplace mentor and assisted by faculty with related experience.

PRFS 4984 PRACTICUM – HUMAN RELATIONS**4 CR. (4 IND. STU.)**

Prerequisite: consent of instructor.

Student applies knowledge of theories, methods, and problems from previous coursework to observe, study, and then recommend procedures to enhance or improve human relations. Structured field experience of 400 hours supervised by workplace mentor and assisted by faculty with related experience.

PSYC Psychology

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.

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 US 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.

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 permission of instructor.

Biological and sociological foundations of human sexuality, human reproduction, sexual functioning, psychological sexual disorders, cultural sexual differences, gender roles, stereo-typing, current and controversial topics in sex education, public policy and politics of human sexuality.

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.

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.

RADT Radiography

Enrollment in courses beginning with RADT prefix requires admission to the radiography program.

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, 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
RADIOGRAPHIC EXPOSURES I 2 CR. (2 LEC.)**

Prerequisite: RADT 1104 Introduction to Radiography.

Prerequisite or corequisite: HLTH 1473 Medical Terminology.

Corequisites: RADT 1212 Radiographic Procedures II, RADT 1224 Clinical Education II, and RADT 1232 Radiation Physics.

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 RADIOGRAPHIC
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.

Corequisites: RADT 1202 Radiographic Exposures I, RADT 1212 Radiographic Procedures II, and RADT 1232 Radiation Physics.

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
RADIOGRAPHIC 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 RADIOGRAPHIC
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 RADIOGRAPHIC 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 2412 Radiographic Procedures I 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 RADIOGRAPHIC 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 RADIOGRAPHIC 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 1233H 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. (2 LAB)

Prerequisite: consent of instructor.

Provides guidance while students learn to work as a team to publish student media. May be repeated up to three times for credit.

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.)

Prerequisite: RHET major with senior standings or consent of instructor.

Senior Seminar provides a capstone experience for rhetoric majors. Students complete the development of a portfolio of writing that best represents the work they have done while in the rhetoric program.

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: departmental consent.

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 permission 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 chair.

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.

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 chair.

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 departmental permission.

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 departmental permission.

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.

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 2203 FOUNDATIONS OF COMMUNICATION 3 CR. (3 LEC.)

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.

SPCH 2213 INTERPERSONAL AND SMALL GROUP COMMUNICATION 3 CR. (3 LEC.)

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.

SPCH 2223 ADVANCED PUBLIC SPEAKING 3 CR. (3 LEC.)

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.

SPCH 3143 SPECIAL TOPICS IN SPEECH 3 CR. (3 LEC.)

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.

**SPCH 3203
CRITICAL LISTENING 3 CR. (3 LEC.)**

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.

**SPCH 3213 NON-VERBAL
COMMUNICATION 3 CR. (3 LEC.)**

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.

**SPCH 3223 ARGUMENTATION
AND DEBATE 3 CR. (3 LEC.)**

Prerequisite: SPCH 2203 Foundations of Communication or consent of instructor.

Theory and practice in debate.

**SPCH 4203 CULTURE
AND COMMUNICATION 3 CR. (3 LEC.)**

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.

**SPCH 4213 RHETORICAL
CRITICISM – ORATORY 3 CR. (3 LEC.)**

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.

SPED Special Education

**SPED 3022 SURVEY OF
DIVERSE POPULATIONS 2 CR. (2 LEC.)**

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.

**SPED 3203 NATURE AND NEEDS OF
STUDENTS WITH MILD DISABILITIES 3 CR. (3 LEC.)**

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 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.)

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.

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. Require

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, probabilities, probability distributions, discrete and random variables, sampling distributions, point and interval estimation, and hypothesis testing.

**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: CPR Certification: American Heart Association “CPR for Healthcare Providers,” HLTH 1473 Medical Terminology, and BIOL 1523/1521 and 1533/1531 Anatomy and Physiology I/Lab and II/Lab.

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: CPR Certification: American Heart Association “CPR for Healthcare Providers,” HLTH 1473 Medical Terminology, and BIOL 1523/1521 and 1533/1531 Anatomy and Physiology I/Lab and II/Lab.

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.

Prerequisite or corequisite: BIOL 1464 Microbiology and Immunology.

Corequisite: SUR 155A Surgical Technology Practicum II.

Students learn the advanced principles, procedures, and techniques of specific, general, and speciality 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.

Prerequisite or corequisite: BIOL 1464 Microbiology and Immunology.

Corequisites: 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 to OSHA regulations.

TCHG 3102 CNC MILLING & TURNING 2 CR. (2 LEC.)

Prerequisite: department approval.

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: department approval.

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 UA Fort Smith. 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.

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.

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.

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.

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.

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.

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.

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.

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, pre-set 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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

BOARD, ADMINISTRATION, AND FACULTY



BOARD OF TRUSTEES

Mike Akin	Carl L. Johnson, M.D.
John Goodson	David Pryor
Jim von Grep	Jane Rogers
Sam Hilburn	John Tyson
Ben Hyneman	Mark Waldrip

BOARD OF VISITORS

Douglas J. Babb	J. Michael Shaw
Michael Barr	Sam T. Sicard
James O. Cox	Peggy Weidman
Paul H. Harvel	Monte Wilson
Eileen C. Kradel	

SYSTEM ADMINISTRATION

Dr. B. Alan Sugg President, UA System

ADMINISTRATION

Dr. Paul B. Beran Chancellor

Dr. B. Ray Wallace Provost/Sr. Vice Chancellor /Professor

Dr. Arlene Breaux Vice Chancellor for University Relations

R. Mark Horn Vice Chancellor for Finance and Administration

Dr. Lee Krehbiel Vice Chancellor for Student Affairs

Dr. Marta Loyd Vice Chancellor for University Advancement

Dr. Kyle Parker Vice Chancellor for Planning and Technology

Dr. Brenda Mitchell Associate Provost/Professor

Stacey Jones Associate Vice Chancellor for Campus/Community Events

Dr. Mark Arant Dean/Professor, College of Science, Technology, Engineering & Mathematics

Dr. Georgia Hale Dean/Professor, College of Applied Science and Technology

Dr. Joe M. Hardin Dean/Professor, College of Languages and Communication

Dr. John R. Jones Dean/Professor, College of Education

Dr. Carolyn W. Mosley Dean/Professor, College of Health Sciences

Dr. Henry Rinne Dean/Professor, College of Humanities and Social Sciences

Dr. Steve Williams Dean/Professor, College of Business/Joel R. Stubblefield Chair

Diana Rowden Dean, College of Student Success

Penny Pendleton Dean, Enrollment Management

Wayne Womack Registrar

Darin Doubrava Executive Director, Institutional Effectiveness

Pat Widders Executive Director of Career Services and H.S. Articulation Projects

Beverly L. McClendon, SPHR Director of Human Resources/EEO Officer

D. Chris Rink Director of Western Arkansas Technical Center (WATC)

Dr. Rebecca Timmons Director of Academic Assessment and Accountability

Jeff Adams Director of Lifelong Learning

Wilma Cunningham Director of Library Services

Alan Pixley Director of Financial Aid

Mark Lloyd Director of Admissions

Julie Mosley Director of Student Advisement and Career Planning

Dr. Kathy Wright Director of Instructional Support

Dustin Smith Athletic Director

FACULTY

- Paula Abbott Lab Instructor, Chemistry
A.G.S., University of Arkansas at Fort Smith; B.S., University of Arkansas (Fayetteville), M.S., University of California, San Diego.
- Bryan S. Alexis Instructor, Graphic Design
B.A., Southern Arkansas University; M.A., Northwestern State University of Louisiana.
- Dale E. Amos Assistant Professor, Biology/Science Education
B.A., Hendrix College; M.S., University of Central Arkansas; Ph.D., University of Oklahoma.
- Gregory Armstrong Professor/Department Chair, World Languages
B.M., Butler University; M.A., Ball State University; Ph.D., Indiana University.
- Don Bailey Associate Professor, Music/ Director of Jazz Studies
B.M.E., Iowa Wesleyan; M.A., University of Northern Iowa. Lucille Speakman Excellence in Teaching Award, 1986-87; Master Teacher Award 2009.
- Eric Baker Assistant Professor, Political Sciences
B.A., B.S., M.A., Ph.D., University of Florida.
- Amelia A. Baldwin Professor, Accounting/Neal Pendergraft Professor of Accounting
B.S.B.A., M.Ac., Auburn University; Ph.D., Virginia Polytechnic Institute and State University.
- E. Jane Barnhill Assistant Professor, Education/WATC
B.A., M.S.E., Arkansas State University; Ed.D., University of Arkansas (Fayetteville).
- Rita L. Barrett Associate Professor, Psychology/Department Chair, Social Sciences
B.A. Winston-Salem State University; M.A., Ph.D., University of South Carolina.
- Sandhya Baviskar Assistant Professor, Biology
B.S. St. Xavier's College (India); M.S., Gujarat University (India); D.A., Idaho State University.
- James E. Beard Associate Professor, Management/Department Chair, Business Administration
B.A., M.A., University of Arkansas, Fayetteville; Ph.D., Northwestern University, IL; SPHR, HR Certification Institute.
- James Belcher Associate Professor, Physics/ Department Chair, Physical Sciences
B.S., University of Central Arkansas; Ph.D., University of Mississippi.
- James Benjamin Assistant Professor, Psychology
B.A., M.A., California State University, Fullerton; Ph.D., University of Missouri, Columbia.
- Martha Bieber Assistant Professor, World Languages
A.A., Universidad Nacional de Costa Rica; B.A., Arkansas State University; M.A., Mississippi State University.
- Pam Blesch Assistant Professor, Nursing
B.S.N., Indiana State University; M.S.N., Indiana University-Bloomington.
- Charles Booker Associate Professor, Music
B.S., University of the State of New York; M.M., University of Texas at San Antonio.
- Austin E. Boyd III Assistant Professor, Physical Science
B.S., B.S., University of Oklahoma; M.S., University of Idaho; Ph.D., Aarhus University (Denmark).
- Hal W. Boyette Assistant Master Technical Instructor, Workforce Leadership (CBPD)
B.A., Ouachita Baptist University.
- Gary C. Bratton Technical Instructor, Workforce Leadership (CBPD)
A.A.S., Arkansas State University - Beebe.
- Dan Breitenberg Assistant Professor, History
B.A., Henderson State University; M.A., East Texas State University.
- Travis Brown Assistant Professor, Graphic Design
B.F.A., Oklahoma State University; M.F.A., West Virginia University.
- Douglas N. Bryhan Assistant Professor, Chemistry
A.S. A.A.S., Rock Valley College; B.S., M.S., Ph.D., Northern Illinois University.

Thomas Buchanan Professor, Biology
 B.S., M.S., University of Arkansas (Fayetteville); Ph.D., University of Texas.

Ken L. Butler Assistant Professor, Automotive Technology
 B.S., Pittsburgh State University.

C. Heath Cady Instructor, Computer Aided Drafting and Design
 A.A.S., B.A.S., University of Arkansas at Fort Smith; M.Ed., University of Arkansas (Fayetteville).

Jodi Callahan Assistant Professor, Imaging Sciences/Program Director, Diagnostic Medical Sonography
 Certificate of Proficiency, Ultrasound, St. Louis University; B.S. University of Arkansas for Medical Sciences; M.S.R.S.,
 Midwestern State University.

Jerri A. Carsello Instructor, Nursing
 A.S., A.A.S., Connors State College; B.S.N., Northeastern State University; M.S., University of Oklahoma Health Sciences Center.

David Carter Assistant Professor, Woodwinds
 B.M., University of North Texas; M.M., The Ohio State University; D.M.A., University of Oklahoma.

James Christiansen Assistant Professor, Physics
 B.S., University of Nebraska at Omaha; Ph.D., Arizona State University.

Ernest Cialone Assistant Professor, Art
 A.A., Westark Community College; B.A., University of Arkansas (Fayetteville); M.F.A., University of North Dakota.

Robert B. Cloninger Instructor, Information Technology, WATC
 B.A., Hendrix College; M.Ed., University of Arkansas (Fayetteville).

Alisa Cole Assistant Professor/Clinical Coordinator
 Certification, St. Vincent Infirmary Medical Center; B.S., University of Central Arkansas; M.S.R.S., Midwestern State University.

Lory Conrad Instructor, Study Skills
 B.S.Ed., M.A., Pittsburg State University (Kansas).

D. Michael Cooper Assistant Professor, English
 A.A., Wharton County Junior College; B.A., University of Houston; M.A., Ed.S., University of Iowa. Lucille Speakman
 Excellence in Teaching Award, 1987-88.

Patsy B. Cornelius Assistant Professor, Nursing
 B.S., University of Central Arkansas; MHSA, University of Arkansas at Little Rock; M.S., Regis University.

Leroy R. Cox Associate Professor /Director, Bachelor of Applied Science Program
 B.S., B.S., M.S., Ph.D., University of Missouri - Rolla.

Michael Crawford Technical Instructor, Welding
 Certified Welding Educator, American Welding Society; A.A.S., Westark College.

Mark W. Curlett Head Coach, Men's and Women's Golf
 B.G.S., University of Maryland College Park.

Sean M. Curtis Assistant Professor, Chemistry
 B. S., Fort Lewis College; Ph.D., State University of New York at Stony Brook.

Monica Daggs Technical Instructor, Health ,WATC
 B.S.N., Arkansas Tech University.

Pamela Davidson Instructor, Dental Hygiene
 Certificate in Dental Hygiene, B.S., University of Arkansas for Medical Sciences; M.Ed., University of Arkansas (Fayetteville).

Alesia J. Davis Instructor, Nursing
 A.A.S., Westark Community College; B.S.N., Arkansas Tech University; M.B.A., Webster University.

Sara M. Davis Associate Professor, Early Childhood Education
 B.S., Oklahoma State University; M.Ed., University of Central Oklahoma; Ed.D., Oklahoma State University.

Janet Dickinson Assistant Professor, Education/Director of Assessment
 B.S.Ed., University of Georgia; M.Ed., Middle Tennessee State University; Ed.D., University of Arkansas (Fayetteville).

Leila Dickinson Instructor, Dental Hygiene
 B.S., University of Arkansas for Medical Sciences.

John Arthur Doak Assistant Professor, Special Education
 B.A., Austin Graduate School of Theology; M.Ed., Ph.D., Texas Women's University.

J. Michael Dugan Technical Instructor, Welding
 A.A.S., University of Arkansas at Fort Smith, Welding Certifications.

Stacey DuVaul Instructor, Writing
 A.A., Westark Community College; B.A.Ed., M.S., Northeastern State University.

Melissa G. Efurd Instructor/Executive Director, Dental Hygiene
 B.S., University of Arkansas for Medical Sciences; M.S., University of Missouri - Kansas City.

Angela Elmore Instructor, Imaging Sciences/Clinical Coordinator, Radiography
 B.S., University of Arkansas at Fort Smith.

Linda S. Fair Assistant Professor, Geography & Social Studies Teacher Licensure
 B.A., Rice University; M.A., University of California, Los Angeles; Ph.D., Rutgers, The State University of New Jersey.

Larry H. Faulk II Assistant Professor, Management
 B.S., Ph.D., Louisiana State University.

Debbie Findlay. Instructor, Psychology/Advising Coordinator
 A.A., Westark Community College; B.A., Arkansas Tech University; M. Ed., University of Arkansas (Fayetteville).

D. Keith Fudge Associate Professor, English Education/Advising Coordinator
 B.A., Arkansas Tech University; M.A., Ph.D., University of Mississippi.

Sydney Fulbright Associate Professor/Executive Director, Surgical Technology
 A.A., Westark Community College; A.A., University of Central Arkansas; B.S.N., Arkansas Tech University; M.S.N., University of Central Arkansas; Ph.D., University of Arkansas (Fayetteville).

Gail Fulenwider Assistant Professor, Information Technology
 A.A., Westark Community College; B.S.B.A., University of Arkansas (Fayetteville); M.A., Webster University.

Deborah Fulmer Assistant Professor, Nursing
 B.S., M.S.N., University of Central Arkansas.

Terrance Gabel. Associate Professor, Marketing
 B.B.A., University of Iowa, Iowa City; M.S., Texas A&M University; Ph.D., University of Memphis.

Ryan B. Gardner Assistant Professor, High Brass
 B.M., Eastman School of Music (University of Rochester); M.M., Shepherd School of Music (Rice University); D.M.A., Manhattan School of Music.

Dana Garner Associate Professor, Early Childhood Education
 B.S.Ed., B.A., Eastern Illinois University; M.S., Ph.D., Mississippi State University.

Kristine Garner Assistant Professor, Biology
 A.A., Westark Community College; B.S., M.S., University of Arkansas (Fayetteville). Lucille Speakman Excellence in Teaching Award, 2002-03.

Carl Gilbert Associate Professor, Biology/Department Chair, Biological Sciences
 B.S., M.S., Ph.D., University of Arkansas (Fayetteville).

Derek E. Goodson Instructor, Computer Aided Drafting and Design
 B.S.M.E., M.Ed., University of Arkansas (Fayetteville).

Kimberly A. Gordon Assistant Master Technical Instructor, Workforce Leadership/Management (CBPD)
 A.A.S., Westark Community College; B.S., M.S., John Brown University; SPHR, HR Certification Institute.

Sarah Griffith-Smith Assistant Professor, English
 B.A., Northwestern State University of Louisiana; M.A., Mississippi State University.

Jody Grizzle Technical Instructor, Automotive Technology
 B.S., Northeastern State University.

Jill E. Guerra Professor, Mathematics
 B.A., State University of New York at Buffalo; M.S., Ph.D., University of Arkansas (Fayetteville).

Pablo Guerra-Monje Assistant Professor, Theatre Arts
 A.A., Applied Arts School of Madrid; M.A., Royal School of Dramatic Arts, Madrid (Spain); M.F.A., University of Memphis.

Boyko G. Gyurov Assistant Professor, Mathematics
 B.S., M.S., South-West University “Neophit Rilski” (Bulgaria); M.S., Ph.D., University of Arkansas (Fayetteville).

Glinda Hall Assistant Professor, English
 B.B.A., B.A., M.A., University of Mississippi; Ph.D., Arkansas State University.

Casey M. Harmon Instructor, Radiography
 B.S., University of Central Arkansas; M.S.R.S., Midwestern State University.

Dale A. Harpenau Head Coach, Baseball
 B.S., M.Ed., Arkansas Tech University.

Katie N. Harper Assistant Professor, Graphic Design
 B.F.A., San Francisco Art Institute; M.F.A., The University of the Arts.

Nancy Hawking Associate Professor/Executive Director, Imaging Sciences
 B.S., University of Arkansas for Medical Sciences; M.Ed., Ed.D., University of Arkansas at Little Rock.

Thomas Hayes Associate Professor/Bess and Hill Williams Endowed Chair, Accounting
 B.A., Westminster College; M.Acc., University of Missouri, Columbia; Ph.D., University of North Texas; CPA.

Brian Henehan Assistant Professor, Information Technology
 B.S.B.A., University of South Dakota; M.S., University of Texas at Dallas.

Malcolm Oliver Heydorn Assistant Professor, Philosophy
 B.S., McMaster University (Ontario, Canada); M.A., Franciscan University (Ohio); Ph.D., International Academy of Philosophy
 - Pontifical Catholic University (Santiago, Chile).

Katherine Hicks Instructor, B.S.N.
 A.A.S., R.N., Community College of Denver, Denver, Colorado; B.S.N., Wesleyan University, Bartlesville, Oklahoma; M.S.N.,
 Oklahoma University/Health Science-Tulsa.

Billy Higgins Associate Professor, History
 B.S., Arkansas Tech University; M.A., University of Arkansas (Fayetteville). Lucille Speakman Excellence in Teaching Award,
 1995-96; Whirlpool Master Teacher Award, 2004.

John Hightower Instructor, Information Technology
 B.B.A., Oklahoma Baptist University; M.S., Arkansas Tech University.

T. Roy Hill Instructor, English
 B.A., M.A., University of Arkansas (Fayetteville). Lucille Speakman Excellence in Teaching Award, 2007.

Suzanne Horne Associate Professor/ Computer-Aided Drafting and Design
 A.A., Westark Community College; B.S., Arkansas Tech University; M.A., California State University (Carson); Ph.D.,
 University of Arkansas (Fayetteville).

Robert Huckelbury Head Coach/Men’s and Women’s Tennis
 B.A., University of Arkansas (Fayetteville).

Barbara G. Hunt Associate Professor, Education/Coordinator of Field Experience
 B.S.E., Indiana University; M.Ed., Ed.D., University of Houston.

Stephen Husarik Professor, Humanities/Music
 B.A.E., School of Art Institute of Chicago; B.Mus., M.Mus., M.Mus. (Hist.), University of Illinois; Ph.D., University of Iowa.
 Whirlpool Master Teacher Award, 2000.

- Silvia Imanda Instructor, BSN
B.B.A., Fu Jen Catholic University, Sinhuang, Taiwan R.O.C.; B.S.N., Missouri Southern State University; M.S.N., Missouri State University.
- Amelia D. Jackson Instructor, Nursing
B.S.N., Arkansas Tech University; M.S.N., University of Phoenix.
- Jack Jackson II Associate Professor, Mathematics
B.S.E., M.S., Arkansas State University; Ph.D., University of Arizona.
- Randy K. Jackson Instructor, Electronics Technology
B.S.M.E., Louisiana Tech University; M.B.A., Elon University.
- Kelly Jennings Associate Professor, English
B.A., University of New Orleans; M.F.A., Ph.D., University of Arkansas (Fayetteville).
- Max Johnston Assistant Professor, Computer-Aided Drafting and Design
B.S.E.E., University of Arkansas (Fayetteville); M.S., Florida Institute of Technology.
- Bobby Jones Assistant Professor, Welding/Department Chair, General Technology/Advising Coordinator
A.S., Connors State College; B.S.E., Northeastern Oklahoma State University.
- Kevin L. Jones Assistant Professor, English Education
B.S.Ed., M.A., Missouri State University.
- Mitzi Jones Assistant Professor, English
B.A., Mississippi College; M.A., University of Arkansas (Fayetteville).
- Amy Jordan Assistant Professor, Organizational Leadership
B.A., B.S., Winona State University; M.A., Ph.D., University of Alabama.
- Youngmi Kang Assistant Professor, Nursing
B.S.N., Geongsang National University (Chinju, Korea); M.S.N., Ewha Womans University (Seoul, Korea); Ph.D., University of Arizona.
- Ragupathy Kannan Professor, Biology
B.S., Loyola College, M.S., University of Madras (India); M.S., Northeast Louisiana University; Ph.D., University of Arkansas (Fayetteville). Lucille Speakman Excellence in Teaching Award, 1998-99; Fulbright Scholar, 2007; Master Teacher Award, 2007.
- Peggy Kelly Instructor, Nursing
L.P.N., Baptist Medical System for Practical Nursing; B.S.N., University of Arkansas for Medical Sciences; M.S.N., University of Central Arkansas.
- Dae-Young Kim Assistant Professor, Criminal Justice
LL.B., Kyonggi University, Republic of Korea (South); M.A., Ph.D., University of Nebraska-Omaha.
- Steven Kite Assistant Professor, History
B.S., Oklahoma State University; M.A., Emporia State University; Ph.D., Oklahoma State University.
- Michael M. Kithinji Assistant Professor, History
B.A., University of Nairobi (Kenya); M.A., Saint Cloud State University; Ph.D., Bowling Green State University.
- Christopher Knuble Instructor, Physical Science
B.S., M.S., University of Arkansas (Fayetteville).
- Debbie Koch Assistant Professor, Nursing
L.P.N., Arkansas Valley Vo-Tech; A.A.S., Westark Community College; B.S.N., University of Arkansas for Medical Sciences; M.S.N., University of Central Arkansas; D.N.P., University of Tennessee Health Science Center.
- Kermit W. Kuehn Professor, Management/Director, Center for Business Research and Economic Development
B.S., Kearney State College; M.I.M., American Graduate School of International Management; Ph.D., University of Nebraska - Lincoln.
- Barbara Lange Associate Professor/Executive Director, School of Nursing
B.S.N., McKendree College; M.S.N., Bellarmine University; Ph.D., University of Central Florida.

Brenda Lasiter Instructor, Nursing
A.D.N., Westark College; B.S.N., Arkansas Tech University; M.S., University of Oklahoma Health Sciences Center.

Lindsay Lawrence Assistant Professor, English
B.A., Schreiner University; M.A., Southern Methodist University; Ph.D., Texas Christian University.

Ann-Gee Lee Assistant Professor, English
B.A., M.A., California State University Stanislaus; Ph.D., Bowling Green State University

Lawrence Don Lee Associate Professor/Department Chair, Art & Theatre
B.F.A., Memphis Academy of Art; M.F.A., Tyler School of Art of Temple University. Lucille Speakman Excellence in Teaching Award, 1994-95.

Terri L. Smith-Leins Assistant Professor, Mathematics
B.S., M.S., Fort Hays State University.

Charles M. Lennon Technical Instructor, Automotive Technology
ASE Certifications; A.A.S., University of Arkansas at Fort Smith.

Kevin Lewelling Professor, Electrical Engineering
B.S., East Central University; M.S., Ph.D., University of Oklahoma.

Luanne Lewis Instructor, Education Technology
B.A., Hendrix College; M.A., Pepperdine University.

Lynn Lisk Assistant Professor/Program Director, Legal Assistance/Paralegal
B.A., Ouachita Baptist University; J.D., University of Arkansas at Little Rock.

Robert Lowrey Assistant Professor, Reading/Writing
B.A., University of Oklahoma; M.A., University of Paris (Sorbonne); M.S., Florida State University. Whirlpool Master Teacher Award, 1997. Lucille Speakman Excellence in Teaching Award, 1999-2000.

Monica Luebke Associate Professor, English
B.A.S.S., Stephen F. Austin State University; M.A., Stephen F. Austin State University; Ph.D., University of Louisville.

Daniel R. Maher Assistant Professor, Anthropology/Sociology
A.S., Highland Community College (Illinois); B.S., M.S., Illinois State University. Lucille Speakman Excellence in Teaching Award 2000-01.

Stephanie Mann Technical Instructor/Team Leader, Health (WATC)
A.D.N., B.S.N., University of Arkansas at Fort Smith.

Madeline Martinez-Santiago Instructor, World Languages
B.A., Austin Peay State University; M.A., University of Arkansas (Fayetteville).

John Martini Assistant Professor/Department Chair, Electronics Technology
A.A.S., Westark Community College; B.L.S., University of Oklahoma; M.A., Webster University. Master Teacher Award 2008.

Rick L. Massengale, Sr. Associate Professor/Department Chair, Information Technology
B.S., Arkansas Tech University; M.B.A., Webster University; Ph.D., University of Arkansas at Little Rock.

Matthew McCoy Associate Professor, History
B.A., M.A., Kansas State University; Ph.D., Arizona State University.

Colin McLain Assistant Professor, Graphic Design
A.A., Oklahoma State University - Okmulgee; B.F.A., Oklahoma State University; M.F.A., Arizona State University (Tempe).

Bobby Medlin Associate Professor, Management
B.S., University of Arkansas at Monticello; M.B.A., University of Arkansas (Fayetteville); D.B.A., Louisiana Tech University.

Jason M. Merritt Technical Instructor, Electronics Technology
B.S.E.E., University of Arkansas (Fayetteville); M.B.A., Embry-Riddle Aeronautical University.

Deebe Milford Assistant Professor/Coordinator, Early Childhood Education
B.A., Louisiana Tech University; M.Ed., Southern Arkansas University.

Elizabeth Momand Associate Professor, Voice/Department Chair, Music & Humanities
 B.M., M.M., Mississippi College; D.M.A., The University of Texas at Austin.

Rager H. Moore, II Associate Professor, Voice/Director of Choral Activities
 B.M., M.M., University of Arkansas (Fayetteville); D.M.A., University of Missouri - Kansas City.

Zoe Morgan Associate Professor, Humanities
 B.S.E., University of Kansas; M.A., Ed.D., University of Arkansas (Fayetteville).

Lynda Nelson Associate Professor, Chemistry
 B.A., Millsaps College; M.S., Ph.D., University of Southern Mississippi. Lucille Speakman Excellence in Teaching Award, 1992-93. Whirlpool Master Teacher Award, 2004.

Rodney Nelson Associate Professor, Biology
 B.S., Southwest Missouri State University; M.S., Ph.D., University of Southern Mississippi. Lucille Speakman Excellence in Teaching Award, 1996-97.

Joshua B. Newman Head Coach, Men's Basketball
 A.A., Glendale Community College (Arizona); B.A., Arizona State University; M.S., Texas A&M University - Commerce.

Argie Nell Nichols Associate Professor/Department Chair Computer-Aided Drafting and Design
 A.T., Oklahoma State University - Okmulgee; B.S., University of Central Arkansas; M.Ed., Ed.D., University of Arkansas (Fayetteville).

Rosario Nolasco-Bell Instructor, World Languages
 B.A., M.A., University of Arkansas (Fayetteville).

Lori Norin Assistant Professor, Speech
 A.A., Westark Community College; B.A.E., M.A., Northeastern State University. Whirlpool Master Teacher Award, 2000.
 Lucille Speakman Excellence in Teaching Award, 2004.

Julie Oliver Assistant Professor, History and Secondary Social Studies
 B.S., North Georgia College and State University; M.A., Armstrong Atlantic State University.

Nycole Oliver Technical Instructor, Health (WATC)
 A.D.N., B.S.N., University of Arkansas at Fort Smith.

V. "Ginger" Osburn Assistant Professor, Early Childhood Education/Advising Coordinator
 B.S.Ed., M.Ed., Northeastern State University.

Kenneth Pappas Assistant Professor, Information Technology
 B.A., M.B.A., University of Arkansas (Fayetteville).

David C. Paulus Associate Professor, Mechanical Engineering
 B.S., M.S., University of Tennessee; Ph.D., Colorado State University.

Diana S. Payne Assistant Professor, Accounting
 B.A., Ouachita Baptist University; M.B.A., University of Arkansas (Fayetteville); CPA.

Gerald "Jerry" Peerbolte Assistant Professor/Bess and Hill Williams Endowed Chair, Marketing
 B.S., Bradley University; M.B.A., University of Arkansas (Fayetteville); CPA.

Felicia Pendleton Instructor, Nursing
 B.S., Louisiana State University; M.S.N., University of Central Arkansas.

Zhouming "Joe" Peng Associate Professor, Finance
 B.S.E.E., South China University of Technology; M.B.A., Oklahoma City University; Ph.D., Texas Tech University.

Constance Phillips Assistant Professor, Reading/Computer Literacy/Department Chair, College of Student Success
 B.S.Ed., M.Ed., Northeastern State University.

Daniel Pinzon Assistant Professor, Mathematics
 B.A., Cornell University; M.A., Ph.D., University of Kentucky.

Katherine Pinzon Associate Professor, Mathematics
 B.A., M.A., State University of New York at Potsdam; Ph.D., University of Kentucky.

- Daniel Prigel Assistant Professor, Mathematics
B.S., State University of New York at Albany; M.S., Ph.D., California Institute of Technology.
- James C. Price Assistant Professor, Mathematics
B.S., California Polytechnic State University; M.S., Ph.D., Purdue University.
- Davis W. Pritchett Professor, Biology
B.S., Arkansas Tech University; M.S., Ph.D., University of Arkansas (Fayetteville).
- Ahmad D. Rahal Assistant Professor, Operations Management
B.S., M.S., M.S., M.B.A., Florida Institute of Technology; Ph.D., University of Central Florida.
- Dana L. Reeves Assistant Professor, Nursing
B.S.N., University of Arkansas for Medical Sciences; M.S.N., University of Central Arkansas.
- Linda Reid Assistant Professor, Early Childhood Education
B.A., University of Arkansas at Monticello; M.Ed., University of Arkansas (Fayetteville); Ed.D., University of Northern Colorado.
- Janet Renwick Associate Professor, Information Technology
B.S.B.A., M.B.A., University of Arkansas at Little Rock; Ph.D., Indiana University; CPA.
- Michael C. Reynolds Associate Professor, Mechanical Engineering/Department Chair, Engineering
B.S.M.E., Marquette University; M.S.M.E., Ph.D., Purdue University.
- Althea Rhodes Assistant Professor, English
B.A., M.A., Ph.D., Southern Illinois University at Carbondale.
- Pamela J. Rhodes Assistant Professor, Nursing
A.A., A.A.S., Westark College; B.S.N., Arkansas Tech University; M.S.N., University of Central Arkansas.
- Susan Ricci Assistant Professor, B.S.N.
B.S.N., M.S.N., Catholic University of America; M.Ed., The University of Southern Mississippi.
- Myron Rigsby Associate Professor, Mathematics
B.S., M.A., Ph.D., University of Alabama. Whirlpool Master Teacher Award, 2002.
- Gregory B. Roberts Instructor, Psychology
A.A., Northeastern State University; B.A., University of Arkansas (Fayetteville); M.S., Oklahoma State University.
- Kim D. Robinson Associate Professor, English
A.A., Wharton County Junior College; B.A., M.A., University of Houston-Victoria; D.A., Idaho State University.
- Brenda M. Ross Assistant Professor, World Languages
Certification, Centro de Estudios de Inglés; B.A., University of Minnesota - Twin Cities; M.A., Pennsylvania State University.
- Sarah Ruple Instructor, Mathematics
B.S.E., M.S., University of Tennessee, Knoxville.
- Phillip W. Russell Professor, Education/Associate Dean
A.A., Westark Community College; B.A., Arkansas Tech University; M.A., Ed.D., University of Arkansas (Fayetteville).
- Rosilee Russell Executive Director, Academy of the Arts/Associate Professor, Piano
B.M., Baylor University; M.M., D.M.A., University of Missouri - Kansas City.
- Noel M. Sagullo Assistant Professor, Mathematics
B.A., Rutgers University; M.S. New Mexico State University; Ph.D., University of Colorado at Boulder.
- D. Jane Sargent Head Coach, Volleyball
A.A., Carl Albert State College; B.S., Panhandle State University (Oklahoma); M.Ed., University of Arkansas (Fayetteville).
- George L. Schmidt Associate Professor, Accounting
B.B.A., M.B.A., West Texas State University; Ph.D., University of North Texas.
- Donna Scoggins Assistant Professor, Middle-Level/Secondary Education
B.S.Ed., M.Ed., Ed.D., University of Arkansas (Fayetteville).

Clifford D. Scott Associate Professor, Marketing
 B.A., Cleveland State University; J.D., University of Colorado School of Law; Ph.D., Louisiana State University.

Robert Sell Assistant Professor, Management
 B.S., Virginia Tech; M.S., Purdue University.

Daniel Settlage Associate Professor, Economics
 B.S., M.S., University of Arkansas (Fayetteville); Ph.D., Purdue University.

Latisha Settlage Associate Professor/Bess and Hill Williams Endowed Chair, Economics
 B.S., M.S., University of Arkansas (Fayetteville); Ph.D., Purdue University.

Mary Shenouda Instructor, Criminal Justice
 B.A., Oakland University; M.S., Wayne State University

Dennis Siler Associate Professor, English
 B.A., University of Central Arkansas; M.A., Wake Forest University; Ph.D., University of Arkansas (Fayetteville).

Susan Simkowski Assistant Professor, Speech Communication
 B.S., University of Wisconsin-Oshkosh; M.A., University of Wisconsin-Stevens Point; Ed.D., Cardinal Stritch University.

Amy Skypala Assistant Professor, Biology
 B.S., University of Oklahoma; Ph.D., University of North Carolina at Chapel Hill.

Charles E. Smith Assistant Professor/ Program Director, Criminal Justice/Legal Assistant Program
 B.S., Florida State University; J.D., University of Arkansas at Little Rock.

Mary A. Sobhani Instructor, World Languages
 B.A., Arkansas State University; M.A., University of Pennsylvania.

Debra A. Steele Instructor, Administrative Professional and Office Technology
 A.A., Carl Albert State College; B.S., Northeastern State University; M.A., M.B.A., Webster University.

Robert (Bob) Stevenson Assistant Professor, Theatre Arts
 B.A., Ouachita Baptist University; M.F.A., University of Montana.

Cammie Sublette Associate Professor, English
 B.A., M.A., Northwest Missouri State University; Ph.D., Southern Illinois University at Carbondale.

Kerri Taber Assistant Professor, Bachelor of Applied Science Program
 B.S.E.E., University of Toledo; M.B.A., D.M., University of Phoenix.

Margaret Tanner Associate Professor, Accounting/Department Chair, Accounting, Economics & Finance
 B.A., Fort Lewis College; M.S., Ph.D., University of North Texas; CPA.

Philip Taylor Assistant Professor, Mathematics
 B.S., Oklahoma Baptist University; M.S., Ph.D., University of Arkansas (Fayetteville).

Bruce Thigpen Assistant Professor, Information Technology
 B.S., Lamar State College of Technology (Texas); M.S., University of Southern California.

Carolyn Thompson Instructor, Speech
 B.A., Arkansas Tech University; M.S., Oklahoma State University.

Linda L. Tichenor Associate Professor, Biology
 B.A., M.S., West Virginia University; D.A., Idaho State University.

Todd Timmons Professor, Mathematics
 B.S., M.S., Texas Tech University; M.A., Ph.D., University of Oklahoma.

Matthew Utz Instructor, Mathematics
 A.A., Westark Community College; B.S., M.Ed., University of Arkansas at Little Rock.

L. Louise VanOsdol Associate Professor, Organizational Leadership Program
 B.S., M.Ed., The University of Arizona; Ed.D., North Carolina State University.

Charles Vo Lab Instructor, Biology
 B.S., University of Missouri - St. Louis; B.S., Parker College; M.A., University of Arkansas (Fayetteville); D.C., Parker College of
 Chiropractic.

Micki Voelkel Associate Master Technical Instructor, Workforce Leadership/Computer Technology (CBPD)
 B.S., Northwestern University; M.Ed., University of Arkansas (Fayetteville).

Tim Wall Instructor, English
 B.A., M.A., North Texas State University (Denton).

Tom Walton Assistant Professor, Speech
 B.S., University of Evansville; M.A., Midwestern State University; Lucille Speakman Excellence in Teaching Award, 2005.

Ray Watson Assistant Professor, Mathematics
 B.S., B.S., M.Ed., Louisiana State University.

Emma Watts Assistant Professor, Administrative Professional and Office Technology
 B.S.B.A., Henderson State University; M.Ed., M.B.A., University of Arkansas (Fayetteville). Whirlpool Master Teacher Award,
 1998.

Lonnie Watts Associate Professor, Sociology
 B.A., Henderson State University; M.A., University of Arkansas (Fayetteville). Lucille Speakman Excellence in Teaching Award,
 1992-93.

M. Janie Weber Assistant Professor, Early Childhood Education
 B.S.E., M.Ed., Ph.D., University of Arkansas (Fayetteville).

Terri L. Wells Assistant Professor, Writing
 B.A., University of Texas at Dallas; M.A., University of North Texas; Ph.D., University of Texas at Austin.

Jerry G. West Instructor, Mathematics
 B.S., University of Arkansas at Monticello; M.S., Oklahoma State University.

Carol Westcamp Assistant Professor, English
 B.A., M.A., Northeastern State University.

Edward C. White Jr. Assistant Professor, Voice
 B.M., University of Alabama; M.M., University of Texas at Austin; D.M.A., University of Kentucky.

Melissa Whiting Professor/Department Chair, English
 B.A., M.Ed., University of Tulsa; Ph.D., University of Oklahoma.

Susan Whitlow Assistant Professor, English
 B.A., M.A., University of Arkansas (Fayetteville).

Louis Whorton Head Coach, Women's Basketball
 B.S., University of the Ozarks; M.Ed., Arkansas Tech University.

Rebecca Williamson Associate Professor, Biology/Advising Coordinator
 B.A., Boston University; Ph.D., The University of Georgia. Lucille Speakman Award, 2008.

Robert J. Willoughby Associate Professor/Department Chair, History
 B.S. Ed., Missouri Western College; M.A., Northwest Missouri State University; Ph.D., University of Missouri - Kansas City.

Clancie Wilson Assistant Professor, Early Childhood Education
 B.S., Tuskegee University; M.A., Atlanta University; Ph.D., Boston College.

Thomas A. Wing Assistant Professor, History/Director, Drennen-Scott House & Historical Site
 B.A., B.S.E., University of Arkansas (Fayetteville); M.L.S., University of Oklahoma.

James R. Wollscheid Associate Professor, Economics
 B.B.A., McMurry University; M.A., Ph.D., Southern Methodist University.

Casey Woodward Instructor, Mathematics
 B.S., Arkansas Tech University; M.Ed., Northeastern State University.

Kevin S. Woolverton Assistant Professor, Electrical Engineering
 B.S., Kansas State University; M.S., Oklahoma State University; Ph.D., Texas Tech University.

Donna Wright Instructor, Information Technology
 A.A., Carl Albert Community College; B.S., Arkansas Tech University; B.S., Southeastern Oklahoma State University; M.I.S.,
 University of Arkansas (Fayetteville).

Julia L. Wright Instructor, Accounting
 B.S.B.A., M.A.C.C., University of Arkansas (Fayetteville).

Shanhong Wu Assistant Professor, Finance
 B.S., M.A., Tsinghua University (China); Ph.D. State University of New York at Buffalo.

Williams Yamkam Assistant Professor, Political Science
 B.A., Northwestern Oklahoma State University; M.A., Ph.D., Wayne State University.

Lois Yocum Associate Professor, Middle Level/Secondary Education
 B.A., Buena Vista University; M.S., Ph.D. Iowa State University.

Chih-Chien Yu Assistant Professor, Mathematics
 B.S., M.S., Tamkang University, (Taiwan); Ph.D. State University of New York at Buffalo.

Alexandra Zacharella Assistant Professor, Low Brass/ Director of Bands
 B.M., University of Hartford; M.M., University of Michigan; D.M.A., University of Southern California.

Mohamed Zainuba Associate Professor, Management
 B.S., M.Ed., Ed.D., Texas Southern University.

FACULTY & STAFF EMERITI

Honoring individuals who have contributed a decade or more of dedicated service to the institution and the students we serve.

Nina Abernathy Coordinator, Admissions and Advisement for Health Sciences

Dr. Cathy Bain Assistant Professor, Education

Barbara Taylor Bartlett Instructor, English

Larry Baker Assistant Professor, Electronics Technology

Rita Bates Assistant Professor, Nursing

Joy L. Beard Division Chair, Humanities/Instructor, English

Virginia Bedwell Instructor, Psychology

Jim Bolin Business Manager

Prissy Buchanan Instructor/Specialist, Music Education

Kay Burd College Connection/Tech Prep Director

Max L. Burns Librarian

Stanley Cagle Instructor, Electronics Technology

Harold F. Callahan Instructor, Physical Education, Health Education Center

Harold L. Cameron Instructor, Mathematics

Kathleen Cameron Instructor, English

Dr. Bruce D. Caselman Professor, Mathematics

Dennis Cash Director, Admissions and Records

Jerry Center Instructor, Machine Tool Technology

Susan Chaney Instructor, Nursing

Ann L. Childs Registrar

Susan Clark	Assistant Professor, Economics
Thomas Clark	Instructor, Chemistry
Doyle Coe	Instructor, Mathematics
Mary Cogbill	Director, Financial Aid
John Collins	Instructor, Data Processing
David Craig	Instructor, Economics/Statistics
William M. Crowder	Instructor, Physical Education/Head Coach, Baseball
Ann Dawson	Instructor, English
Jo Ella Douglas	Donor Relations Specialist
Nancy Dover	Instructor, English
Martha Efurd	Instructor, Reading
Dr. Calline Ellis	Chair, Division of Health Occupations
Bill Fitzgerald	Instructor, Automotive Mechanics
Ronald C. Floyd	Assistant Professor, Information Technology
Jane Foltz	Instructor, Reading
Dr. Odene Forsythe	Instructor, Mathematics
Linda Gibbons	Associate Professor, Psychology
Lorena Goebel	Instructor, Mathematics
Logan Green	Instructor, Music
Kathy Redding Hairgrove	Instructor, Nursing
Anita Hammack	Instructor, Nursing
Mary Hammack	Instructor, Nursing
Pam Henderson	Assistant Professor/Executive Director, Nursing Technology (ADN and PN)
Gale Hightower	Health LRC Coordinator
Michael Hightower	Vice President for Instruction
Dr. Betty J. Hinton	Instructor, Speech/Drama
Bill Holder	Instructor, Mathematics
Helen Holland	Instructor/Supervisor of Interns & Clinical Practice, Education
Dr. Carol Horne	Instructor, Biology
James E. Howard	Instructor, Art
Charles Irish	Associate Professor, Physics
Jack Jackson	Trainer, Business and Industry
Mike Jones	Trainer, Business and Industry
Dr. Mary Jane Keel	Associate Professor, Nursing
Ray Koenig	Instructor, Automotive
Dr. William Lacewell	Instructor, Business
Frances Fletcher (Bedell) Lea	Instructor, Economics
Paul R. Leggett	Instructor, Office Administration
Edward Levy	Assistant Professor, Political Science
Marget Lippincott	Instructor, English/Humanities

Carol McAlister Director, Information Technology
 Timothy McNeil Instructor, Welding Technology
 David Meeks Instructor, Biology
 Gene Mellon Instructor, Information Technology
 Sharon Mellon Instructor, Health Sciences, WATC
 Dr. Carolyn McKelvey Moore Vice Chancellor for Institutional Advancement
 Linda Myers Planned Giving Officer
 Genelle Newton Contoller
 Betty Nixon Coordinator, Records
 Daniel E. Page Instructor, Electronics Technology
 Jim Phelps Trainer, Business and Industry
 Dr. Terry G. Polinsky Instructor, Psychology
 Dr. Howard Puckett Professor, Finance
 Ronald C. Richard Assistant Professor, Accounting
 Dorothy Rappeport Instructor, Psychology
 Dr. Roger Roderick Dean, College of Business
 Clara Jane Rubarth Assistant Professor, Liberal Arts
 John M. Samuels Instructor, Electronics Technology
 Janet M. Sanders Assistant Professor, Psychology
 Dr. Sandi Sanders Senior Vice Chancellor
 Darrell Scott Instructor, Automotive Technology
 Sherron Shuffield Instructor, English
 Dr. Roland Smith Dean, College of Education
 Monica Snyder Assistant Professor, Nursing
 Ray Sparks Associate Vice Chancellor for MIS
 Dr. Karen Stauffacher Dean, College of Arts and Sciences
 Don Tannehill Instructor, English
 R. C. Thompson Instructor/Clinical Coordinator, Radiography
 John Vaughn Instructor, Electronics Technology
 Wayne J. Vyrostek Assistant Professor/Technical Director, College of Applied Science and Technology
 Gene Wayne Wells Assistant Professor, English
 Sharon Winn Instructor, Office Administration
 Ann Scott Winters Associate Professor, English
 James Wyatt Instructor, Physical Education/Director, Health Education Center
 Roger Young Instructor, History/Student ADA Coordinator
 Nancy Bryan Zechiedrich Instructor, Spanish/English

A

- Absence Due to Participation In University
Sponsored Events 53
- Academic Information** 47–48
- Academic clemency 56
- Academic early alert 55
- Academic grievance process 55
- Academic honesty 53
- Academic probation 56
- Academic Programs** 67–68
- Academic Progress 53
- Academic Readiness 47
- Academic Support Services** 41–46
- Academic Suspension 56
- Academic Warning 55–56
- Acceptance of Transfer Credits 15–16
- Accounting 90
- Bachelor's Degree 90–91
- course descriptions 174–175
- Accounting/Business Administration Double Major 91
- Accreditations 11
- ACTS - Arkansas Course Transfer System 20, 174
- ADA Services 45
- Adding Courses/Late Registration 52
- Administration** 299
- Administrative Professional and Office Technology 74
- associate degree 74–75
- course descriptions 180–182
- office assistant certificate of proficiency 75
- office assistant technical certificate 75
- Admissions** 13–20
- Admission policy 13
- Admissions requirements and procedures 13–20
- Affirmative Action Statement 8
- Air Force ROTC (AERO)
- course descriptions 177–178
- Alcohol/drug abuse policy 37–38
- Animation Technology 72–73
- course descriptions 190–192
- Anthropology
- course descriptions 178–179
- Application for Graduation 62–63
- Arkansas Department of Higher Education Scholarship and Grant Programs 29
- Assessment of Student Learning 8
- Associate Degree Nursing (ADN) 113–114
- course descriptions 176–177
- Associate Degree Requirements 60–61
- Associate of Applied Science Degrees (AAS)**
- Administrative Professional and Office Technology 74–75
- Associate of General Studies 151
- Computer Aided Drafting and Design 77–81
- Architectural 77–78, 80
- Digital Design 78, 80, 81
- General CADD 78–79, 80
- GIS/GPS Mapping 79, 81
- Mechanical 79–80, 81
- Concentration in Early Childhood Education 101–102
- Crime Scene Investigation 120–121
- Criminal Justice 122–123
- Dental Hygiene 111–113
- Electronics Technology 81–82
- General Technology 83–84
- Information Technology 166
- Law Enforcement Administration 128
- Legal Assistance/Paralegal 84–85
- Nursing Technology (ADN) 113–114
- Radiography 115–116
- Surgical Technology 116–117
- Workforce Leadership 86–87
- Associate of Arts (AA) 150–151
- Associate of General Studies (AGS) 151
- Athletics 31–32
- Attendance 53
- Auditing Courses 52
- Automotive and Diesel
- course descriptions 184–185
- Automotive Technology
- course descriptions 185

B

- Bachelor's degrees**
- 2 degrees concurrently 61–62
- Accounting 90–91
- Animation Technology 72–73
- course descriptions 190–192
- Applied science (BAS) 71
- Biology 153, 154
- course descriptions 185–190
- Biology with Life Science/Earth Science
- minor 156
- teacher licensure 153, 155–156
- Business Administration 92–93
- minor 94
- Chemistry 156–157
- Chemistry w/ concentration in biochemistry 157–158
- Chemistry w/ physical/earth science
- minor 159
- teacher licensure 7-12 158–159
- Criminal Justice 119, 121–122
- minor 122
- double majors in bachelor's degree 61
- Early childhood education 96–97
- AAS concentration 101–102
- Education w/human resource development concentration 171
- Electrical Engineering 153, 160–161
- English 141, 142–143
- minor 144
- English w/ teacher licensure 141, 143–144
- Graphic Design 119, 123–124

History	119, 124–126
historical interpretation minor	126
minor	126
History w/ social studies teacher licensure	119, 126–128
Imaging Sciences	
diagnostic medical sonography	103, 104–106
Imaging Sciences - management	103, 106–108
Information Technology	153, 162–167
Marketing	93–94
Mathematics	153, 167–168
Mathematics w/ teacher licensure	153, 168–169
minor	169
Mechanical Engineering	153, 161–162
Media Communication	141, 145–146
minor	145–146
Middle Childhood Education w/ emphasis in language arts/social studies 4-8	96, 98–99
Middle Childhood Education w/ emphasis in math/science 4-8	96, 99–101
Music	119, 129–131
minor	131
Music Education	
instrumental music P-8 and 7-12	119, 131–133
vocal music	119, 133–135
Nursing (BSN)	103, 108–109
Organizational Leadership	69, 73–74
Psychology	119, 135–136
minor	136
requirements for bachelor's degree	59–61
returning to earn an additional bachelor's degree	62
Rhetoric and Writing	141, 146–147
minor	147
RN to BSN online completion program	109–111
Spanish	141, 147–148
Spanish w/ teacher licensure	141, 148–150
minor	150
Studio Art	119, 136–138
minor	138
Theatre	119, 138–139
minor	139
Board, Administration, and Faculty	299–312
Board of Trustees	299
Board of Visitors	299
Bookstore	44–45
Boreham Library	44

C

CADD (see Computer-Aided Drafting and Design)	
Calendar	2
Campus Life and Services	31–39
Campus police (see University Police Department)	
Campus store (see Bookstore)	
Career Services Office	41
Center for Business and Professional Development	70
Center for Lifelong Learning	10
Certificate of proficiency requirements	61

Chancellor's Message	1
Changes in Student Information	42
Character of the University	7–11
Cheer and Pom Squads	32
Chemistry (see also Bachelor's degrees)	
Chemistry with Concentration in Biochemistry (see also Bachelor's degrees)	
Chemistry with Physical/Earth Science teacher licensure	7-12
(see also Bachelor's degrees)	
course descriptions	195–197
Child Development Associate (CDA) Certificate	102
Citizenship	19, 47
Classification of Students	49
Clubs/Organizations	33–34
CNA nursing assistant	
course descriptions	200
COBI (College of Business Integration)	200–201
Code of Conduct for Students	38
College Credit for Non-traditional Education	49–51
Advanced Placement (AP)	50
Challenge Examinations	51
Military Credit	51
College Hours/Course Load	48
College of Applied Science and Technology ..	8–9, 67, 67–85
College of Business	9, 67, 89–94
College of Education	9, 67, 95–102
College of Health Sciences	9, 67, 103–117
College of Humanities and Social Sciences ..	9, 68, 119–139
College of Languages and Communication	9–10, 68, 141–151
College of Science, Technology, Engineering & Mathematics	10, 68, 153–169
College of Student Success	41
Communication (COMM) course descriptions	201–202
Computer-Aided Drafting and Design	69, 77–81
course descriptions	192–195
Computer Information Systems (CISM)	
course descriptions	198
Computer Maintenance	82
Computer Readiness	47
Computer Service Technician	83
Concurrent/dual enrollment of high school students	17
Conditional/Unconditional Enrollment	14
Copyrighted materials, student responsibilities	56–57
Counseling Clinic	34–35
Course Descriptions	173–297
Course load/College hours	48
Course Prefix Index	173
Course Symbols	174
Credit for non-traditional education	49–51
Crime Scene Investigation	119, 120–121
Criminal Justice	
Associate Degree	119, 122–123
Bachelor's Degree	119, 121–122
course descriptions	198–200
Cub Camp	32

D

Dean's List	57
Decided major	68
Degree audit review	62
Degree program requirements (bachelor's)	59–60
Degree Requirements	64
Denial of admission	19
Dental Hygiene	
associate degree	103, 111–113
clinic	34
courses	202–205
Diesel Technology	77
Disabled Student Services	45
Diversity	8
Double major (within a Bachelor's degree)	61
Drafting (see Computer-Aided Drafting and Design)	
Drug/alcohol abuse policy	38
Dual/concurrent enrollment of high school students	17

E

Early Childhood Education	96–97
associate degree concentration	101–102
Bachelor's degree	96–97
child development associate (CDA) certificate	102
course descriptions	205–209
Earning a double major within a Bachelor's degree	61
Earning two Bachelor's degrees concurrently	61–62
Economics (see also Bachelor's degrees)	
course descriptions	209–210
Education (see also Bachelor's degrees)	
course descriptions	210–212
Elective Requirements	62
Electrical Engineering (see also bachelor's degrees)	
course descriptions	215
(see University Center at UA Fort Smith)	
Electrocardiography (EKG)	
course description	212
Electronics	
course descriptions	212–215
Electronics Technology	
associate degree	69, 82
Emergency Medical Technology (EMT)	113, 215
Endorsements: Algebra I, Grade 5 & 6, Grade 8, and Special Education P-4 or 4-12	96
Engineering degrees (see also Bachelor's degrees)	
courses	215, 220–221, 255
English (see also Bachelor's degrees)	
courses	215–220
Enrollment Verification	42
Equal opportunity statement	8
Expectation of students	47

F

Facsimile (fax) transmissions (see transcript information)	42–43
Faculty	300–310
Faculty & Staff Emeriti	310–312
FERPA (Family Education Rights and Privacy Act)	45–46
Finance	
course descriptions	221–222
Financial Aid and Scholarships	25–29
additional eligibility requirements	26
appeal process	27
applying	25
eligibility	25
federal work-study (student employment)	27
Hope and Lifetime Learning Credits	28
information	21
National Guard	28
probation	27
satisfactory academic progress	26–27
scholarships	28–29
student loans, applying for	25
suspension	27
transfer students	27
university work-study	27
Fitness Center	36
Food Court/Dining Services (SODEXO)	36
Foreign Language	
course descriptions	223
French	
course descriptions	223–224
Freshman, first-time entering student	13–14

G

General Education	8
General education core requirements	64–65
General Industrial Plant Maintenance (GIPM)	
course descriptions	225
technical certificate	83
General Technology (associate degree)	69, 76
Geography	
course descriptions	224
minor	123
Geology	
course descriptions	224–225
minor	162
Geospatial Information Systems	69, 70, 77
associate degree	79
certificates	81
German	
course descriptions	225
Goal setting	47
Gordon Kelley Academic Success Center	42
GPA definitions	54
Grade petitioning	55
Grade reports	54

Grades and grade points	54–56
Graduation, application for	62–63
Graduation Requirements	59–65
Graduation with academic honors	63
Graphic Design (see also Bachelor's degrees)	123–124
course descriptions	226–229
Greek Life	32
Guaranteed Eight-Semester Degree Program	63–64

H

Handicapped parking	36
Health Education/Fitness Center	36
Health Sciences	
course descriptions	232–233
Historical development of the institution	10–11
History (see also Bachelor's degrees)	
course descriptions	229–232
historical interpretation minor	126
minor	126
History with Social Studies Teacher Licensure 7-12	126–128
Honesty, academic	53–54
Honors	
course description	233
Hope and Lifetime Learning Credits	28
Housing and Residential Life	36–37
Sebastian Commons Apartments	37
The Lion's Den Residence Hall	37
Humanities	
course descriptions	234

I

ID Cards (Lions ID Cards)	43
Imaging Sciences (see also Bachelor's degree)	104
course descriptions	234–238
Diagnostic Medical Sonography	104–106
Management	106–108
Immunization record now required	19–20
Industrial Electronics and Electrical Maintenance	70, 83
Information Technology	
associate degree	153, 166
Bachelor's degree	153, 162–166
careers	162–163
course descriptions	239–244
database technology minor	166–167
web development minor	167
In-progress grade	54–55
Interdisciplinary Studies (IDS)	234
International Students	17–18
Intramural Sports	32

L

LAC (see Gordon Kelley Academic Success Center)	
Late registration	52
Law	
course descriptions	244–245
Law Enforcement Administration	119, 128–129
associate degree	128
certificate of proficiency	129
technical certificate	128–129
Leadership (organizational)	245–246
Learner responsibilities	47–48
Legal Assistance/Paralegal	
associate degree	69, 84–85
course descriptions	246–248
Library	44
Licensure endorsements - Grade 5 & 6	101
Special Education (P-4 or 4-12)	101
Lions' Alert	37
Lions' bookstore	44–45
Lions' ID Card	43
LionsLink Email	48
LPN (see Nursing, practical)	

M

Machine Tool Technology	
course descriptions	248–249
(see also General Technology)	
Management	
course descriptions	255–257
Marketing	
course descriptions	258–259
Mathematics	
course descriptions	249–255
Mathematics with Teacher Licensure (see Bachelor's degrees)	
Mechanical Engineering (see Bachelor's degrees)	
course descriptions	255
Media Communication	145–146
minor	145–146
Middle Childhood Education	
course descriptions	259–260
Military Credit	51
Military Science	
course descriptions	257–258
Minimum Standards	53
Minor Requirements	62
Mission of the College	7
Motivation	47
Music Programs	129
Music (see also Bachelor's Degrees)	119
course descriptions	260–266
performance ensembles	33

N

National Guard	
financial aid	28
Networking (see Information Technology)	
New Student Orientation (NSO)	14
Noncredit Enrollment	18
Non-traditional Education, college credit	49–51
Non-traditional Programs (Office of Non-traditional Student Support)	31
Nursing (see Bachelor's Degrees)	103
associate degree (ADN)	103, 113–114
course descriptions	176–177
Practical Nursing (PN)	103, 115
course descriptions	248
Nutrition	
course description	269

O

Organizational Leadership	73–74
course descriptions	245–246
Organizations	33
Overseas Study (OSS)	
course descriptions	269

P

Paralegal (see Legal Assistance/Paralegal)	
Parking/Traffic Regulations	36
Payment of Tuition and Fees	21
Pharmacology	
course description	269
Philosophy	
course descriptions	269–270
minor	135
Phone Directory	4–5
Physical Education	
course descriptions	271–272
Physical Health Policy	35–36
Physical Science	
course descriptions	270–271
Physics	
course descriptions	272–274
minor	169
Placement Policy	19
Political Science	
course descriptions	274
minor	135
Powell Student Health Clinic	35
Practical Nursing (see Nursing)	
Prerequisite/Corequisite Course Requirements	49
Professional Studies	
course descriptions	274–276
Program Degree Plans	68
Psychology	135
course descriptions	276–279
minor	136

R

Radiography	103
associate degree	115–116
course descriptions	279–282
Readiness to learn	48
Reading	
course descriptions	282
Readmitted Students	16
Records Office	42–43
Refund of Tuition	21–22
Registration	48
Religion	
course descriptions	282
Repeating Courses	52
Reserve Officer Training Corps (ROTC)	43
Air Force (ROTC) course descriptions	177–178
Army (ROTC) course descriptions	257–258
Residence Hall (The Lion's Den)	37
Residency Determination	22
Residential Life (Housing and)	36–37
Respect for self and others	48
Rhetoric and Writing	141
course descriptions	282–284
(see also Bachelor's Degrees)	
Role and Scope of the University	7
ROTC (see Reserve Officer Training Corps)	

S

SAS (Student Academic Success)	
course descriptions	284
Scholarships	28–29
Season of Entertainment	34
Sebastian Commons Apartments	37
Sociology	119
course descriptions	284–286
minor	136
Spanish	147–150
course descriptions	286–287
Special Education	101
course descriptions	288–290
Speech	141
course descriptions	287–288
minor	150
Spelling	
course description	290
Spirit Squad (see Cheer and Pom Squads)	32
Statistics	
course descriptions	290
Student Activities Office	34
Student ADA Services	45
Student Advisement and Career Planning	41
Student Center (see Welcome Center)	
Student Classification	49
Student Conduct	37–39

Student Employment	27
Student ID Cards	43
Student Information Changes	42
Student Learning Vision	7–8
Student Life	31
Student Loans	26
Student Programs	31–37
Student Responsibilities for Copyrighted Materials	56–57
Student Responsibility	3
Students' Rights Notification (FERPA)	45–46
Student Success	41
Student Success Rates	20
Studio Art	136–138
course descriptions	182–184
minor	138
Study Skills	48
Surgical Technology	103
associate degree	116–117
course descriptions	291
System Administration	299

T

Table of Contents	3
Teaching English as a Second Language (TESL)	150
Technical Certificate Requirements	61
Technology	
course descriptions	291–292
Telephone Numbers (see Phone Directory)	
Testing Center	43
Testing Fees	23
Theatre	119
course descriptions	292–293
minor	139
Tobacco-Free Campus Policy	38–39
Transcript Information	42–43
Transcripts	49
Transfer Students	14–15
Tuition and Fees	21–24
Tuition Refund	21

U

UA Fort Smith Alumni Association	64
UA Fort Smith Calendar	2
Unclassified pre- and post-baccalaureate students	18
Unconditional Enrollment	14
Undecided Major	68
Understanding University Operations	48
University Center at UA Fort Smith	10, 68, 171
degrees	171
Tuition and Fees	171
University Learning Outcomes	68
University Mission, Role and Scope, Vision, and Values	7–8
University Police Department	37
University Programs	8
Upward Bound	43–44

V

Values of the University	8
Veterans	28
Vision of the University	7

W

Wait-List Courses	52
WATC (see Western Arkansas Technical Center)	
Web Developer (see Information Technology)	
Welcome Center	34
Welding	85
AAS degree and/or technical certificate	85–86
course descriptions	293–295
Western Arkansas Technical Center (WATC)	10, 70
Withdrawal from classes	52–53
Workforce Leadership	86–87
associate degree	86–87
certificates	87
course descriptions	295–297

