

UNIVERSITY OF ARKANSAS  
FROM I

®

# UAFS AT A GLANCE

## ABOUT THE UNIVERSITY OF ARKANSAS – FORT SMITH CAMPUS AND FACILITIES

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

UAFS's beautiful campus features over 20 major buildings and the Donald W. Reynolds Campus Plaza, Tower, and Campus Green. The Stubblefield Center is a premier 3,100 seat venue for concerts, athletics, and feature events. The Smith-Pendergraft Campus Center houses all student service offices, a campus store, lounge areas, and a food court featuring Chick-I-A®, Pizza Hut®, Starbucks®, and Subway®. The Pendergraft Health Sciences Center provides students the opportunity to acquire knowledge through state-of-the-art simulation, featuring an operating dental hygiene clinic as well as nursing, surgical technology, sonography, radiography, and EMT labs. The Baldor Technology Center is designed to accommodate more than 1,000 students daily with quality educational and technological programs. Boreham Library offers an extensive collection of electronic and print materials, group study rooms, desktop computers for students, and a 24-hour computer lab and study area. The Windgate Art and Design building offers students a state of the art facility for courses in art, photography, graphic design, humanities, and a 150 seat film theater. The Recreation and Wellness Center (RAWC) has two full-size basketball courts, studio fitness rooms, walking/jogging track, fitness equipment, and a climbing wall.

## EDUCATION AT UAFS

The seven colleges of UAFS provide the opportunity for students to earn baccalaureate and associate degrees, technical certificates, and certificates of proficiency. In the fall of 2014, the Arkansas Higher Education Coordinating Board granted approval for UAFS to change its role and scope to offer its first graduate program (see Graduate Studies Catalog for details). The faculty, staff, and students of UAFS collaborate to create a dynamic learning environment. The faculty balances first-rate classroom instruction with practical teaching and hands-on training so students will be prepared for success in their chosen field or pursuit of an advanced degree. Students have the opportunity to enhance their education by participation in a variety of internships and international travel opportunities.

UAFS provides students with a wealth of opportunities for academic, cultural, and social activities in an atmosphere that focuses on real life. With over 90 organizations on campus and many traditions such as the Island Party and Battle of the Bands, there is always something to do at UAFS. The Season of Entertainment features national tours of Broadway musicals, top entertainers, and performances by the University's Department of Music. The UAFS athletic teams are members of the NCAA Division II and compete in baseball, women's volleyball, men's and women's cross country, men's and women's golf, men's and women's tennis, and men's and women's basketball. Located on campus, Sebastian Commons apartments are fully furnished and feature private bedrooms, full kitchens, and reserved parking. Students who live in the Lions' Den residence hall enjoy a variety of suite-style room options, including loftable furniture, internet access, community lounges, and an on-site dining facility.

## LOCATION

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

## STUDENT AND CAMPUS LIFE

UAFS provides students with a wealth of opportunities for academic, cultural, and social activities in an atmosphere that focuses on real life. With over 90 organizations on campus and many traditions such as the Island Party and Battle of the Bands, there is always something to do at UAFS. The Season of Entertainment features national tours of Broadway musicals, top entertainers, and performances by the University's Department of Music. The UAFS athletic teams are members of the NCAA Division II and compete in baseball, women's volleyball, men's and women's cross country, men's and women's golf, men's and women's tennis, and men's and women's basketball. Located on campus, Sebastian Commons apartments are fully furnished and feature private bedrooms, full kitchens, and reserved parking. Students who live in the Lions' Den residence hall enjoy a variety of suite-style room options, including loftable furniture, internet access, community lounges, and an on-site dining facility.

## CHANCELLOR’S MESSAGE

You have in front of you 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 21st century scholarship, our combining learning in the classroom with real world experience, and our insistence on excellence.

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

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

Welcome to the University of Arkansas - Fort Smith.

Sincerely,

Paul B. Beran, Ph.D.  
Chancellor

# CALENDAR 2018-19

## SUMMER TERM I - 2018

Classes Begin	(M) June 4
Holiday (Independence Day)	(W) July 4
Last Day of Term	(R) July 5

## SUMMER TERM II - 2018

Classes Begin	(M) July 9
Last Day of Term	(W) August 8

## FALL SEMESTER - 2018

Classes Begin	(M) August 20
Holiday (Labor Day)	(M) September 3
Fall Break	(W-U) November 21 - 25
Last Day of Classes	(T) December 4
Reading Day	(W) December 5
Final Exam Week	(R-W) December 6-12
Commencement	(R) December 13

## WINTER INTERSESSION

Classes Begin	(R) December 13
Last Day of Term	(F) January 11

## SPRING SEMESTER - 2019

Classes Begin	(M) January 14
Holiday (Martin Luther King, Jr. Day)	(M) January 21
Spring Break	(M-U) March 18-24
Faculty Appreciation Ceremony/Undergraduate Research Symposium	(F) April 12
Last Day of Classes	(F) May 3
Final Exam Week	(S-F) May 4-10
Commencement	(S) May 11

## SPRING INTERSESSION DOMESTIC/INTERNATIONAL MAYMESTER - 2019

Classes Begin	(M) May 13
Holiday (Memorial Day)	(M) May 27
Last Day of Term	(F) May 31

## SUMMER TERM I - 2019

Classes Begin	(M) June 3
Last Day of Term	(W) July 3

## SUMMER TERM II - 2019

Classes Begin	(M) July 8
Last Day of Term	(W) August 7

# TABLE OF CONTENTS

UAFS at a Glance.....	2
Chancellor's Message.....	3
Calendar 2018-19.....	4
Phone Directory.....	6

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

## STUDENT RESPONSIBILITY

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

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

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

# PHONE DIRECTORY

Area code 479 unless otherwise indicated

## UNIVERSITY

TABLE OF CONTENTS

COURSE PREFIXES

INDEX

**TRANSCRIPTS, ACADEMIC RECORDS - RECORDS OFFICE**

Smith-Pendergraft Campus Center 222 788-7230

**UNIVERSITY POLICE DEPARTMENT**

Emergency 788-7911

Non-Emergency 24 hr. 788-7141

Parking Services 788-7109

**UPWARD BOUND**

Classic

Vines 153 788-7119

Math/Science

**UPWARD BOUND**

Vines 153 788-7103







communication, and problem-solving enables students to integrate, synthesize, and apply knowledge in multiple contexts and careers. Specialized degree programs in a variety of disciplines prepare students for entry into their chosen fields. Students may augment their education by selecting a minor area of study from within the college or from other colleges in the University. Baccalaureate degrees can be earned with teacher licensure by meeting prescribed degree requirements.

### 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

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 six divisions of postsecondary education: College of Applied Science and Technology, College of Business, 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, offers additional educational opportunities.

In the fall of 2014, the Arkansas Higher Education Coordinating Board granted approval for UAFS to change its role and scope to offer graduate programs. UAFS welcomed the first cohort into the master of science in healthcare administration in fall 2015, and awarded the first MSHA degree in spring 2017.

## ACCREDITATIONS

UAFS is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. The University is approved by the United States Department of Education, the United States Department of Health and Human Services, and the Arkansas State Approving Agency for veterans' training. College of Applied Science and Technology programs are accredited by the Association of Technology, Management and Applied Engineering (ATMAE). The automotive program is certified by the National Automotive Technicians Education Foundation (NATEF). The legal studies program is approved by the American Bar Association. School of Education programs are accredited by the Council for Accreditation of Educator Preparation (CAEP). Nursing programs at the University are approved by the Arkansas State Board of Nursing. The traditional BSN and RN-BSN online completion programs are accredited by the Commission on Collegiate Nursing Education (CCNE). 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 (JRCDS) through the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The University of Arkansas - Fort Smith is an accredited institutional member of the National Association of Schools of Music (NASM). The College of Business programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB). The Master of Science in Healthcare Administration (Online Program) is approved by the Higher Learning Commission. UAFS will seek accreditation for the master of science in healthcare administration online program from the Commission on Accreditation of Healthcare Management (CAHME).



if testing was completed in the four years prior to beginning of the term student will enter.

4. S

received two doses of measles, two doses of rubella, and two doses of mumps vaccine (see Immunization Record). course descriptions as they will be required for transfer work to be articulated.

3. ACT, SAT, Accuplacer, other approved placement scores, or previous college coursework demonstrating acceptable reading, English, and mathematics placement must be submitted by degree-seeking students. Additional testing will be required during the admission process. Students must have a 2.00 (on a 4.00 scale) cumulative GPA on all previous coursework to be eligible for automatic admission to UAFS. Students whose cumulative GPA falls below a 2.0 will be reviewed on their individual merits. Transfer students academically suspended from their last institution will not be allowed to enroll at UAFS until they are eligible for re-enrollment at that institution.
4. Students who have fewer than 13 college credit hours are required to submit official high school transcripts or GED scores. Students must be in good financial and disciplinary standing with current or previous institution. 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, unless the student can demonstrate eligibility to return to institution from which they were dismissed. After five years, admission may be considered.

5. Transcripts:

- a. Students seeking a degree from UAFS must provide official transcripts from all colleges/universities attended (sent directly to the Records Office or 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 by the application deadline 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 will not receive an admissions decision until official transcripts have been received and evaluated. Any exception to this policy must be approved by the Admissions Office in coordination with the registrar. In those instances when an exception is approved, a Transcript Waiver form must be completed and a hold will be placed on a student's account that prevents future enrollment and the release of official transcripts if all official transcripts are not received by June 1 (fall semester), February 1 (spring semester) or the Friday of the first week of each summer term. Students advised with 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, or the student may be withdrawn from the affected course. 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.

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

**ACCEPTANCE OF TRANSFER CREDITS**

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

1. Transfer credit will be officially evaluated after a completed Application for Admission and 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 may not transfer.
  3. Transfer credit is subject to a two-stage evaluation process. First, the Records Office will complete an initial evaluation of the transfer credit for the institution. Second, the Department responsible for the course will evaluate the transfer credits that will satisfy degree program requirements. Credits found to be eligible for general transfer may not always apply to a specific degree program.
  4. Grades earned at other institutions are not calculated in the student's grade point average earned at the University. Colleges within the University will review grades for admission into specific programs. Grades earned at other
- b. Transient students (i.e., students actively enrolled in another institution who wish to enroll at UAFS for one semester) must provide an official transcript from the current institution they are attending and any official transcripts from other institutions demonstrating completion of required pre- or corequisites. Students advised with in-progress pre- or corequisites must show documentation of the final grade to the Records Office by the Friday of the first week of the semester, or the student may be withdrawn from the affected course. A hold will be placed on the student's account that prevents future enrollment. Transient students who are enrolled and wish to enroll for the next consecutive term must apply as a transfer student and submit all required documentation for that application.
  - c. International college and university transcripts must be evaluated by an academic credential evaluation service before courses can be articulated as transfer work. Students should be prepared to submit course syllabi and

institutions are used in the calculation of University graduation honors.

5. When a course is taken at another institution and is  
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until such time as they qualify under first-time entering admission requirements.

4. High school students may enroll in a maximum of 12 hours each fall or spring semester; some high schools may limit enrollment of their respective students to less than 12 hours. Students wishing to take more than the maximum allowed hours must obtain the approval of the registrar (or designee) and their high school guidance counselor.
5. Students who withdraw from high school or home school will not be allowed to reenroll in UAFS until they qualify under first-time entering admission requirements.

## INTERNATIONAL STUDENTS

An international student is one whose citizenship is in another country and is applying for an I-20 from UAFS to obtain a student (F1) visa. International student applications, requests for information, and questions should be referred to the Office of International Relations at (479) 788-7977 or [international@uafs.edu](mailto:international@uafs.edu). Admission decisions and immigration are separate. A student cannot be denied admission due to not meeting immigration requirements.

Admission requirements include:

1. A completed International Student Application for Admission.
2. Submission of official academic records:
  - a. 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 attached) by a school official. Notarized copies will not be accepted. Additionally, an official English translation must be provided.
  - b. Official transcripts from all previous international and domestic colleges and universities attended, and course descriptions in English for each course intended for transfer. International transcripts must be evaluated on a course-by-course basis by an NACES accredited evaluation service. UAFS must receive the evaluation and course descriptions before the application deadline.
3. Demonstrate English proficiency. This requirement may be waived for citizens of a country in which English is the language and the medium of everyday use. Proficiency may be proved by one of the following:
  - a. Required TOEFL or IELTS scores. The minimum TOEFL score is 500 on the paper-based (PBT) or 61 on the internet-based (IBT). The minimum score for the IELTS is 5.5; all sections must have a score of 5.5 or above. Test scores for the TOEFL and IELTS are valid for two years after the test date.
  - b. Passing two standard English composition courses at an accredited postsecondary institution in the United States with a grade of C or better.
  - c. Graduation from an accredited high school in the United States.
  - d. Other means of demonstrating English proficiency, as approved by the Director of International Relations.

Immigration requirements:

1. 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, to include two doses of rubella, two doses of measles, and two doses of mumps vaccine. Tuberculosis screening will be required for all incoming international students and will be conducted upon arrival.
2. Complete the Declaration and Confirmation of Financial Resources form and provide evidence that sufficient funds (\$26,108) are available to meet University costs and personal living expenses. The federal government requires that a student must be prepared to finance his or her study and stay in the United States without help from the University. Each student must provide in English:

- a. 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.
- b. 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.

3. A copy of the applicant's passport biographical page. If the student is already in the United States we will require a copy of the biographical page, current I-94, I-20



or more credit hours, only three of which may be completed through distance learning).

Please contact the Office of International Relations if  
needed. See [thgs6/ \(2wLaitut9eeearnixty-P-1oIor\)-12Scdit2 be dth0\(2wL\[\(itym mo mpD F\)31\\_4\(linan 8 \(eAide cd o6\[hbempD l\(pleaituttime](mailto:thgs6/2wLaitut9eeearnixty-P-1oIor)-12Scdit2%20be%20dth0(2wL[(itym%20mo%20mpD%20F)31_4(linan%208%20eAide%20cd%20o6[hbempD%20l(pleaituttime)

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

Test scores must be current (completed four years prior to the beginning of the term student will enter). When more than one score is available, the highest score will take precedence. A minimum score must be obtained before a student may be considered a degree-seeking student.

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

### DEVELOPMENTAL EDUCATION REQUIREMENTS

First-time entering students who place into developmental reading, writing, or mathematics must enroll in all required developmental coursework and will be limited to 15 hours the first semester. Students who place 242 or lower on Accuplacer reading will be required to take SAS 0203 On Course for Success. Students who do not successfully complete all developmental coursework, including SAS 0203, with a grade of C or better will be required to repeat the course(s) until they successfully complete all developmental coursework with a grade of C or better.

### CITIZENSHIP AND LEGAL RESIDENCY

Students who do not have United States citizenship, legal residency, or an appropriate visa will be charged out-of-state

tuition. Students who are not U.S. citizens or permanent residents are not eligible for federal or state financial aid.

### ARKANSAS COURSE TRANSFER SYSTEM (ACTS)

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.

### FELONY REVIEW

Students who declare they have been convicted of a Clery Act felony, convicted of any felony in the last three years, or have pending felony charges, will be required to go through a felony review as part of the admissions process. These students may be required to submit documentation in addition to the admissions materials. This process results in admission in most cases.

### STUDENT SUCCESS RATES

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



Refunds for short-term courses or courses starting at times other than the beginning of the semester will be calculated on the prorated basis of a regular semester course.

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

Students receiving Title IV funding who completely withdraw from classes will be subject to the return of Title IV funds calculation, as outlined by federal regulations.

During the first 60 percent of an academic term, a student earns Title IV funds, in direct proportion to the length of time he or she remains enrolled. If a student withdraws before the 60 percent point, any unearned aid must be repaid to the respective Title IV program. Once the federal student aid funds are returned, the student will be responsible for any unpaid charges on the account.

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 requested exceeds the amount of aid earned, the student is responsible for the difference.



OTHER FEES	
School of Education Professional Development course fee	\$20
Applied Science laboratory fee	\$25



# FINANCIAL AID AND SCHOLARSHIPS

## Financial Aid

The Financial Aid Office assists students with state aid and federal aid programs, such as grants, work-study, and loans. Scholarships and veteran education benefits are also coordinated through the Financial Aid Office. Financial Aid staff members are dedicated to assisting qualifying students in finding and applying for assistance to pay for educational expenses. Students should refer to our [website](#) for specific listings and criteria.

The Financial Aid Office is located on the second floor of the Smith-Pendergraft Campus Center, and can be contacted at 479-788-7090 or [naid@uafs.edu](mailto:naid@uafs.edu).

### APPLYING FOR FINANCIAL AID

Students must complete the Free Application for Federal Student Aid (FAFSA) to apply for federal financial aid programs and scholarships. The FAFSA should be submitted each year as soon after October 1 as possible. Completion of the FAFSA is also required to initially be considered for state financial aid programs such as the Arkansas Academic Challenge Scholarship. The FAFSA on the Web is available at [www.fafsa.gov](http://www.fafsa.gov). Students can contact their high school counselor or the UAFS Financial Aid Office for information about completing the application. Once a student submits the FAFSA, it generally takes about 3-5 business days for the application to be received by the UAFS Financial Aid Office.

The Financial Aid Office at UAFS will only process applications for students who have been admitted to UAFS. Admitted students will have access to official communications through their UAFS email and My.UAFS account online. The UAFS Financial Aid Office will communicate directly with students through official communication channels only.

Students may access information online through My.UAFS by clicking the Students tab, then Financial Aid.

Financial aid disbursement for most programs will take place after the eleventh day of class for the fall and spring semesters. Disbursement can be delayed due to enrollment in late starting

courses. Loan disbursements will also be delayed for first-time loan borrowers.

### ELIGIBILITY FOR FINANCIAL AID

To receive financial assistance, a student must be:

- A regularly admitted student and
- Seeking an eligible degree with UAFS

Most financial aid programs require students to be a United States citizen or eligible non-citizen, as defined by the U.S. Department of Education.

Eligibility for specific aid programs will be based on the student's enrollment, as of the eleventh class day. Undergraduate students must be enrolled in at least 6 credit hours and graduate students must be enrolled in at least 5 credit hours to receive federal loans. Qualifying students may receive a prorated amount of the Federal Pell Grant based on enrollment status.

Enrollment status for federal aid programs are defined as:

- Full-Time: 12 or more credit hours
- Three-Quarter Time: 9 – 11 credit hours
- Half-Time: 6 – 8 credit hours
- Less-than-Half-Time: 1 – 5 credit hours

Enrollment status for state aid programs are defined as:

- Full-Time: 15 or more credit hours
- Three-Quarter Time: 9 – 14 credit hours
- Half-Time: 6 – 8 credit hours

Students must also demonstrate satisfactory academic progress to receive financial assistance. The Satisfactory Academic Progress (SAP) policy for UAFS is summarized in the Satisfactory Academic Progress (SAP) for Financial Aid Applicants section of this handbook.

NOTE: Concurrent high school students, non-degree seeking students, and students classified as a lifelong learner or transient are not eligible to receive federal or state financial aid.



#### PELL GRANT LIFETIME ELIGIBILITY USAGE (LEU) LIMIT

Students are limited to 12 full-time semesters, or 6 years of full-time enrollment, or 600% of Pell Grant eligibility during their lifetime. If a student attends less than full-time, it may extend the number of semesters of eligibility. This affects all students regardless of when or where they received their first Pell Grant.

#### ADDITIONAL FINANCIAL AID ELIGIBILITY REQUIREMENTS

Students must not owe an overpayment for any Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Federal Direct Loan, Federal PLUS Loan, Federal Perkins Loan, or any state grant. Students must not be in default on a Federal Direct Loan, Federal PLUS Loan, or Federal Perkins Loan.

Students must submit all requested documents to the Financial Aid Office as soon as possible and before the end of the enrollment period on or before 11/15/2014.

FINANCIAL AID SUSPENSION

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

for scholarships vary and can be seen on the website mentioned above.

Students receiving external funding should notify the Office of Financial Aid.

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

# CAMPUS LIFE AND SERVICES

## Student Affairs

UAFS is committed to providing a student-centered learning community inspiring the pursuit of academic excellence from all students. Student growth through intellectual, cultural, personal, and social development takes place inside and outside UAFS classrooms. UAFS strives to enhance the out-of-classroom educational experience, complementing the academic mission of the University and educating UAFS students for the challenges of meaningful and responsible citizenship. Out of the classroom experiences include knowledge acquisition and application, cognitive complexity, intrapersonal development, interpersonal competence, humanitarianism and civic engagement, and practical competence

history. In 2015, the volleyball team won the NCAA Division II South Central Region Tournament and advanced to the NCAA Division II Elite Eight. National rankings have been achieved in volleyball, men's basketball, men's golf, women's basketball, and baseball.

Scholarships are awarded for participation on all intercollegiate teams, and walk-ons are encouraged to try out for UAFS teams. Athletic participation rates and financial support data are available from the Athletic Department upon request.

University students, faculty, staff, and fans take great pride in their support of UAFS athletics. University students are admitted upon receipt of an offer of admission to the University.

## Student Programs

### ATHLETICS

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

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

Since becoming a member of NCAA Division II and the Heartland Conference, UAFS has won conference championships in volleyball, men's basketball, women's basketball, and men's golf. Teams from UAFS have made appearances in the national tournament in volleyball, men's golf, women's basketball, and men's basketball. In 2014, the volleyball team won the NCAA Division II south central region tournament and advanced to the NCAA Division II Final Four for the first time in school

#### FOR WOMEN

- Alpha Omicron Pi
- Delta Gamma
- Gamma Phi Beta

#### FOR MEN

- Kappa Alpha Theta
- Kappa Sigma
- Pi Kappa Phi
- Sigma Nu

#### GOVERNING BODIES

- UAFS Panhellenic Council (PC): the governing body over the G

## COUNSELING CLINIC

The Counseling Clinic of UAFS supports the mission of the University by enabling students to maximize their educational experience through counseling and psychotherapy and is located on the third floor of the Pendergraft Health Sciences Center, room 312.

Appointments may be made by dropping in or calling ahead. Walk-in appointments will be accommodated as soon as possible.

## POWELL STUDENT HEALTH CLINIC

The Powell Student Health Clinic provides high quality non-emergency health care services to UAFS students to assist with improving their health and safety so they may benefit from the educational process and achieve their full potential. The Powell Student Health Clinic is located on the second floor of the Pendergraft Health Sciences Center.

Clinic hours are subject to change at any time and may vary during the summer. The last patient is seen 30 minutes prior to the posted closing time and a Lions ID card is required to be seen.

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

# Physical Health

## CHRONIC COMMUNICABLE DISEASES

UAFS 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







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/le 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



## Bookstore

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

Students are entitled to a full refund on textbooks and unused access codes through the first week of class for any reason, with a valid receipt. Students are also entitled to a full refund on textbooks and unused access codes 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 re-sale for the next semester, students

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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, name 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. Legal documentation of a name change is required.

### TRANSCRIPT INFORMATION

The Records Office will process a transcript request only when the request bears the signature of the student. Request for a transcript may be made on the [transcript ordering page](#) of the UAFS website or presented in person at the Records Office.

Official transcripts will not be released if there are any outstanding financial obligations to the University.

### LIONS ID CARD

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

The Lions ID card provides admission to University sponsored social, cultural, athletic, and recreational events. The card also serves as the Boreham Library card, Fitness Center pass, security clearance for email log-on, 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) is an educational program designed to provide the college student an opportunity to earn a commission as a second lieutenant while completing the university requirements for a baccalaureate degree. The program provides leadership training that will develop the skills and attitudes vital to the professional military officer. Upon successful completion of the program and graduation from the university, ROTC cadets are commissioned as second lieutenants and may either the active Army, Army Reserve, or Army National Guard. Qualified students can compete for scholarships and financial assistance. Students register for military studies classes through the Advising Center. For further program information, contact the UAFS Army ROTC Office at (479) 788-7525/Gymnasium room 119A, or visit the UAFS ROTC [webpage](#) and the U.S. Army ROTC [webpage](#).

Students who are interested in pursuing a career as a commissioned officer in the United States Air Force should contact the UA Fayetteville Air Force ROTC office for further

information. AFROTC students will complete all aerospace studies courses at UA Fayetteville while completing degree plans at UAFS. The UA Fayetteville Air Force ROTC office can be reached at (479) 575-3651. Students register for aerospace studies courses through the Advising Center.

## Student Support Services

Student Support Services (SSS) is a federally funded program designed to assist students in achieving their goal of a baccalaureate degree at UAFS. Funded to serve 140 students, SSS offers services such as individualized academic and career advising, tutoring and group study sessions, improvement of time management and study skills, financial and economic literacy training, and assistance in applying for graduate school. Students also have the opportunity to participate in learning communities in which students take classes and form study groups together. Participants commit to the program until they graduate from UAFS with a baccalaureate degree. The SSS offices are located on the second floor of Boreham Library, rooms 233-237.

## Testing Center

The Testing Center staff offers reliable test administrative services while ensuring the highest ethical and professional testing standards in a secure and comfortable environment.

Test services include Accuplacer, computer literacy, and foreign language placement tests, CLEP and Challenge exams, individual make-up tests for UAFS students, and proctor services for students taking classes at other institutions. Tests are scheduled by appointment. Please refer to the Tuition and Fees section for associated costs.

The NLN PAX, Miller Analogies Test, TOEFL, LSAT, GRE Subject Tests, NOCTI, and PSB Health Occupations Aptitude Examinations are scheduled at various times during the year. Individuals may contact the Testing Center or visit the website for further information on these services.

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

## Upward Bound

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 mathematics and science and to encourage them to pursue postsecondary degrees in mathematics 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.

## UAFS Alumni Association

The UAFS Alumni Association maintains relationships between the University, its alumni, friends, and community through professional development for alumni and by inviting community leaders and alumni to the campus to mentor and build relationships with students. It also hosts family-friendly events throughout the year for alumni with children. The Alumni Association develops services and programs consistent with the University's educational aims and that addresses alumni's interests and needs.

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

UAFS Alumni Association Traditions Book (2012-2013) (Published by UAFS)

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

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.

400 Maryland Avenue, SW  
Washington, DC 20202-4605

Directory Information as defined by the United States Department of Education means information contained in an educational record of a student that would not generally be considered harmful or an invasion of privacy if disclosed. Students may request UAFS not release directory information by completing the proper form and submitting it to the Records Office, on the second floor of the Smith-Pendergraft Campus Center. Directory information at UAFS includes name, address, major field of study, degrees and awards received, participation in officially recognized activities and sports, weight and height of members of athletic teams, telephone listing, electronic mail address, photographs, date and place of birth, dates of attendance, grade level, enrollment status (i.e., undergraduate or graduate; full- or part-time, no enrollment), honors received, and most recent educational agency or institution attended.

3. The right to consent to disclosures of personally identifiable information (PII) contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. UAFS discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. School official includes any person employed by UAFS in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person serving on the board of trustees; or a student serving on an official committee, such as a disciplinary or grievance committee. A school official also may include a volunteer or contractor outside of UAFS who performs an institutional service of function for which the school would otherwise use its own employees and who is under the direct control of the school with respect to the use and maintenance of PII from education records, such as an attorney, auditor, or collection agent or a student volunteering to assist another school official in performing his or her tasks. A school official typically has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for UAFS or assist a school official in doing so. Upon request, UAFS also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

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:

4. The right to file a complaint with the United States Department of Education concerning alleged failures by UAFS to comply with the requirements of FERPA. The name and address of the office that administers FERPA is noted below:  
Family Policy Compliance Office  
U.S. Department of Education

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

- Health or safety emergency: knowledge of personal information is necessary to protect the health and safety of a student or other person(s).

- In connection with financial aid for which the student has applied or which the student has received the information is necessary to determine eligibility for the aid, determine the amount of the aid, determine the conditions of the aid, or enforce the terms and conditions of the aid.

UAFS 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.



- 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.





COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP) AND DSST  
Students who complete the subject-area examinations of the

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

## 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. Registration and class changes after the first week require the approval of the College dean of each course.

## Wait-Listed Courses

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

1. Students may not register for one section of a course and be placed on a wait list for another section.
2. Students may not wait list more than one section of a course.
3. Students may not wait list courses offered at the same time as a course in which they are already registered.
4. Students must meet all prerequisites or corequisites for a wait-listed course.
5. Students may not wait list a course which will put them beyond their maximum allowed credit hours.
6. Students with registration holds may be dropped from their wait-listed courses.

The student will be enrolled in the course if space becomes available and should verify enrollment in the course by checking [My.UAFS](#). If the student no longer wishes to be enrolled or wait-listed in the course, the student must officially withdraw from the course prior to the start of the term for a full refund. Tuition and fees for wait-listed courses will not be charged until the student is officially registered in the course.

## Auditing Courses

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

Ideally, students who wish to audit a course should declare their intentions when they enroll. Students may change from audit to credit status or credit to audit status through the fifth day of the fall or spring semester. Summer terms and o-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/Grade Replacement

Students may elect to repeat courses for credit as they deem necessary; however, course hours will be applied only one time

toward graduation requirements. Beginning in fall of 2018, grade calculations of the cumulative GPA (All courses with 101 (e) included) will not be included in the calculation of individual course grades. Grade replacement will only be applied to all repeated courses. Grade replacement will only be allowed as noted below.

- May be used for a maximum of 12 hours. The first attempt at a course may not be based on substitutions with an "E" beside the grade to denote that it has been excluded from the GPA. The grade replacement will not be automatic. In consultation with their advisor, the student should select the courses to be excluded from GPA calculations and submit the appropriate form to the Records Office.
- Will only be allowed on courses in which the grades of C, D, or F were earned initially (no grade replacement permitted on courses with A or B grades earned).

course only if another course is simultaneously added on the same Change of Schedule Form. Any course(s) dropped without a corresponding add will be refunded according to the published refund policy.

3. After the 11th day of the fall/spring semesters and 5th day of the summer terms:
  - a. Students are required to have a Change of Schedule Form signed by their advisor and the faculty member teaching the course on the Change of Schedule Form in order to withdraw. Students who are on financial aid and/or are receiving a scholarship must meet with a financial aid representative and obtain their signature on the form.
  - b. Students withdrawing from a credit course prior to 5 pm on Friday of the twelfth week (or the equivalent) of the fall or spring semester will receive a W on their permanent records.

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.

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

4. Measures taken by the student to rectify the particular incident being grieved
5. Any other pertinent information

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

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

## Academic Progress

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

### MINIMUM STANDARDS

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

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

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

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

Students who do not maintain satisfactory academic progress are encouraged to use all available resources in the Gordon Kelley Academic Success Center, Advising Center, advising coordinators, and faculty to reestablish an acceptable GPA.

### ACADEMIC EARLY ALERT

A student who has been identified as having an academic



# GRADUATION REQUIREMENTS

## Degree Program Requirements

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX





- A minimum of a 2.00 cumulative GPA on all work attempted at the University and in the courses required for the technical certificate.
- A minimum of 15 hours of credit must be completed in residency.
- No student will be allowed to graduate with a grade of D in more than one course used to meet the requirements of the technical certificate; however, some colleges will not accept a grade of D in courses required for the technical certificate.
- Demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

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

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

#### EARNING A DOUBLE MAJOR WITHIN A BACCALAUREATE DEGREE

Students may earn a double major by completing degree requirements in two different fields within a single degree, a bachelor of arts (BA), or bachelor of science (BS), or bachelor of business administration (BBA). Students wishing to pursue a double major must declare their intent after consultation with their faculty advisor and obtain approval by the dean(s) of the college(s) offering both majors. The student must deliver the declaration of double major form, with required signatures, to the Records Office before completion of 75 credit hours. The student must complete graduation requirements of both majors within the degree (a minimum of 30 unduplicated hours for the second major is required) and substitutions may not be used to fulfill the second major. A student with a double major will be required to complete a minimum of 150 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 BACCALAUREATE DEGREES CONCURRENTLY

Students wishing to complete courses in separate baccalaureate degrees are strongly encouraged to declare one degree as a major, the other degree as a minor and complete all required electives. Students may earn two baccalaureate degrees (e.g., a BBA and a BS) concurrently by completing degree requirements for both areas. Students wishing to pursue two degrees concurrently must declare their intent after consultation with their faculty advisor and obtain approval from the deans offering both degrees. The student must deliver the declaration of concurrent degrees form, with required signatures, to Records Office before completion of 75 credit hours. Only 12 hours of corequisite (co) or 16 (v) credit hours. Once courses form, complete meet the safety (equivalent) (requirements) (TJ) 0.

## 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. 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.

## APPLICATION FOR GRADUATION

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

Graduation applications are submitted online, except in situations approved by the registrar. Upon receipt by the Records Office, a graduation application fee will be charged for all baccalaureate 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. Any student completing degree requirements at the conclusion of the spring semester or either summer term should apply by November 15 of the previous fall semester. Any student completing degree requirements at the end of the fall semester should apply by April 15 of the previous spring semester.

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 by the end of the first or second summer term may choose to participate in either the previous spring commencement or the next fall commencement, but not both.

## GRADUATION WITH ACADEMIC HONORS

The baccalaureate degree with honors will be conferred upon graduates who meet the criteria for honors recognition. All students meeting numerical criteria described below are eligible for consideration for honors based on the cumulative GPA for all college-level work (developmental coursework and courses for which academic clemency has been granted are excluded). Graduation candidacy standings will be based on the overall cumulative college-level GPA to include all transfer work and University work, including grades for courses repeated at the University and at other institutions. Honors recognized at

commencement are tentative and do not include any grades earned during the graduate's final semester. The official determination of honors will be made upon evaluation of the student's 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: summa cum laude 3.9-4.00 GPA, magna cum laude 3.8-3.89, or cum laude 3.6 -3.79. Honors recognition requires a minimum of 45 credit hours in residency, including a minimum of 30 hours of the last 36 hours of credit, and at least half of the credit hours in the major field in residency. These honors are awarded only for the first baccalaureate degree conferred. Students who graduate from another college or university with a baccalaureate degree and pursue a second undergraduate degree at UAFL 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).

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



# ACADEMIC PROGRAMS

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

## SCHOOL OF EDUCATION

The School 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 School of Education, candidates can earn baccalaureate degrees in elementary 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 School of Education under the guidance of the coordinator of secondary education and the teacher licensure officer.

## HONORS INTERNATIONAL STUDIES PROGRAM

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

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

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that UAFS graduates must have to successfully navigate an increasingly complex world.

### ANALYTICAL SKILLS

Critical Thinking Skills Goal: Students will use critical thinking skills to identify problems/issues and develop solutions/analysis.

#### Objectives

- Students will identify a problem or issue.
- Students will research, evaluate, and compare information from varying sources in order to evaluate authority, accuracy, recency, and bias relevant to the problems/issues.
- Students will generate solutions/analysis of problems/issues evaluated.
- Student will assess and justify the solutions and/or analysis.

Quantitative Reasoning Goal: Students will assign and use numbers, read and analyze data, create models, draw inferences, and support conclusions based on sound mathematical reasoning.

#### Objectives

- Students will apply appropriate mathematical/statistical models to solve problems.
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# COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

The College of Applied Science and Technology (CAST) is dedicated to preparing students for success in high demand technical fields. In addition, the Center for Business and Professional Development offers customized training for those already employed or seeking to advance their careers.

By utilizing a dynamic, hands-on approach to instruction, CAST creates educational opportunities for students that positively impact their potential for employment while enhancing the economic development in our community, state, and region.

Students can complete a variety in degree and certificate programs.

- Industrial Electronics and Electrical Maintenance
- Office Management Technology
- Robotics
- Sustainable Energy Technologies
- Welding - Arc
- Welding - MIG
- Welding - TIG
- Welding Layout and Fabrication
- Workforce Leadership

For more information about degree programs and requirements, and/or for advisement, contact the program department head or the advising coordinator from the College of Applied Science and Technology at (479) 788-7785.

## Center for Business and Professional Development

The Center for Business and Professional Development (CBPD) is a premier provider of credit instruction; non-credit customized training, professional development opportunities, and consulting for businesses and professionals. For over 30 years, CBPD has 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 CBPD and the Fort Smith Manufacturing Executives Association and can lead to an associate of applied science degree. For more information about CBPD program please contact the department at (479) 788-7743.

The Commercial Driving Development program (CDL) trains eligible candidates for entry-level jobs as an over-the-road driver. The four week program consists of 160 total clock hours. Contact the CDL coordinator at (479) 462-5072 for more information.

## Animation Technology

### BACHELOR OF SCIENCE

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 (AAS) or associate of applied technology (AAT) degree.

For more information about degree requirements, and/or for advisement, contact the BSAT program department head or advising coordinator from the College of Applied Science and Technology at (479) 788-7785.

#### TRANSFER STUDENT ADMISSION REQUIREMENTS:

1. Completion of all admission requirements to UAFS, including submission of official transcripts from any college(s) previously attended to the UAFS Records Office.
2. Submission of official transcript from any college(s) previously attended to the director of the BSAT program.

Transfer students or computer graphic technology (CGT) graduates 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. Completion of an AAS or AAT from an accredited institution with 37 hours of technical-professional course work in CGT. Students with less than 37 hours of coursework in CGT will be considered for admission into the BSAT on a case by case basis.

#### PRE-PROGRAM REQUIREMENTS

HOURS		NOTES
6	English Composition	1
3	Speech	1
6	Mathematics	1
8	Lab Science	1
3	Fine Arts	1
3	Humanities	1
3	History/Government	1
6	Social Sciences	1
37	Career block	5
Total Hours		

#### REQUIREMENTS AFTER ADMISSION INTO THE BACHELOR OF SCIENCE IN ANIMATION TECHNOLOGY PROGRAM MAJOR CODE: 4064

##### JUNIOR YEAR FALL SEMESTER - 13 HOURS

HOURS		NOTES
3	BSAT 3033 Motion for Applied Animation	2
3	BSAT 3053 Recording Methods for Historical Structures	2
4	Upper-level BSAT elective or BSAT 3004 Animation Overview	2 & 3
3	Upper-level BSAT elective	2 & 3

##### JUNIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS		NOTES
3	BSAT 3043 Lighting and Rendering	2
3	BSAT 3893 Computer Color Applications	2
3	Upper-level BSAT elective	2 & 3
3	Upper-level elective	4

##### SENIOR YEAR FALL SEMESTER - 12 HOURS

HOURS		NOTES
3	BSAT 3023 Digital Production Techniques	2
6	Upper-level BSAT electives	2 & 3
3	Upper-level elective	4

##### SENIOR YEAR SPRING SEMESTER - 8 HOURS

HOURS		NOTES
4	BSAT 3084 3D Advanced Concepts	2

HOURS				NOTES
4	BSAT	4044	Senior Capstone Project	2

120 Total Hours

At least 40 hours must be upper-level

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog, with the following stipulation: mathematics - MATH 1453 is required, and MATH 1403 College Algebra or higher mathematics with MATH 1403 as a prerequisite.
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 CGT department and BSAT degree graduation requirements. [www.uafs.edu](http://www.uafs.edu) (www)49GroAa(lob573.8312 T -39.757 -25.9To-aoje E10.1 (eq.33 eleral167 T

3. Elective courses, consult with advisor. Six hours of upper-level courses from general education areas and nine hours of upper-level technical courses are required.
4. Career block, 37 hours. Approved AAS or AAT degree from an accredited institution with 37 hours of technical-professional coursework.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

## Automotive Technology

ASSOCIATE OF APPLIED SCIENCE DEGREE  
 TECHNICAL CERTIFICATE  
 CERTIFICATE OF PROFICIENCY

The automotive program trains entry-level automotive technicians. Program training level is Automotive Service Technician (AST). Certificates are available for skill-specific, entry-level training. Courses taken in the automotive technology program can lead to certification by the National Institute for Automotive Service Excellence.

**HOURS**

4	AUTO	1484	Engine Performance I
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16 Total Hours

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

**HOURS**

4	ATDI	1234	Theory and Maintenance
4	ATDI	1434	Electrical Systems I
4	AUTO	1284	Automotive Engines

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HOURS				NOTES
3	CGT	2333	Fundamentals of Technical Visual Communications	2
4	CGT	2624	Photoshop Applications	2
3	SPCH	1203	Introduction to Speech Communication	
3	Social Sciences requirement			1

### THIRD SEMESTER - 15 HOURS

HOURS				NOTES
3	ART	1103	2D Design	2
4	CGT	2664	Digital Design Level I	2
4	CGT	2674	Digital Layout Level I	2
4	Lab Science requirement			1

### FOURTH SEMESTER - 14 HOURS

HOURS				NOTES
3	CGT	2303	Integrated 3D Applications	2
4	CGT	2684	Digital Design Level II	2
4	CGT	2694	Digital Layout Level II	2
3	English Composition requirement			1

60 Total Hours

Notes

1.

HOURS				NOTES
3	MATH	1403	College Algebra or higher	
3	SPCH	1203	Introduction to Speech Communication	

### THIRD SEMESTER - 15 HOURS

HOURS				NOTES
4	CGT	2894	Parametric Modeling	2
4	CGT	Elective		2 & 3
4			Lab Science requirement	1
3			Social Sciences requirement	1

### FOURTH SEMESTER - 15 HOURS

HOURS				NOTES
4	CGT	2624	Photoshop Applications	2
4	CGT	2834	Machine Drawing and Design	2
4	CGT	2994	Capstone Project	2
3			English Composition requirement	1

60 Total Hours

#### Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Select one social sciences course, and one lab science course.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative GPA of 2.25 for these courses and a minimum of 2.25 overall to meet graduation requirements, CGT department. Must earn a grade of at least a C for each course in the major based on the last grade earned in each course.
3. CGT elective, four hours. Consult with advisor.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

### CGT - ARCHITECTURAL TECHNICAL CERTIFICATE

MAJOR CODE: 4005

CONC. CODE: C021

### FIRST SEMESTER - 16 HOURS

HOURS				NOTES
1	CGT	1001	CAD Concepts & Applications	2
4	CGT	1234	Engineering Graphics I	2
4	CGT	1644	3D Visualization	2
4	CGT	2744	CAD Level I	2
3			English Composition requirement	1

### SECOND SEMESTER - 15 HOURS

HOURS				NOTES
4	CGT	1284	Engineering Graphics II	2
4	CGT	2764	CAD Level II	2
4	CGT	2634	Architectural Materials	2
3	MATH	1403	College Algebra or higher	

31 Total Hours

#### Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Select ENGL 1203 or 1233.
2. Student must maintain a cumulative GPA of 2.25 and





course. They must also maintain an overall GPA of 2.25 to meet graduation requirements, CGT Department.

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# General Technology

## ASSOCIATE OF APPLIED SCIENCE

This degree will enable a student 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 program containing a major technical focus and support courses related to career objectives.

## ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

MAJOR CODE: 4030

CONC. CODE, OPTION 2: C014

CONC. CODE, OPTION 3: C052

HOURS		NOTES
6	English Composition requirement	1
3	Mathematics requirement	1
3	Social Sciences requirement	1
3	Computer requirement	3
4	W893 Td [lpa0.02.893 TdSPCHo deHL88n03ul 106. See5 re3J 27.80fuc0 0 7tecSee 013.27.806 -1.8.533 - .mad24i52 TD (CONC4.32 -13.22 8.22H32 n Pdiatei6	

HOURS		NOTES
3	Mathematics or speech requirement	1
3	Social Sciences requirement	1

#### FOURTH SEMESTER - 15 HOURS

HOURS		NOTES
2	LEGL 2252 Family Law	2
3	LEGL 2553 Real Estate Law	2
3	LEGL 2753 Wills, Trusts, and Probate	2
2	LEGL 2772 Business Organizations	2
3	LEGL 2823 Trial Practice	2
2	Elective requirement	2 & 3

60 Total Hours

#### Notes:

1. General Education Core Requirements, see Graduation Requirements section of catalog with the following stipulation: social sciences - select one course from HIST 2753, PSYC 1163, or SOCI 2753.
2. 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.
3. In consultation with advisor or program director, select from LEGL 190V, 2162, 2622, 2713, 2762, or HLTH 1473.

All LEGL courses in the degree must be completed with a grade of C or better.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

## Office Management Technology

ASSOCIATE OF APPLIED SCIENCE  
TECHNICAL CERTIFICATE  
CERTIFICATE OF PROFICIENCY

The office management technology (OMT) curriculum is designed to develop appropriate knowledge and skills needed by the student to perform the duties of an office manager.

HOURS				NOTES
3	OMT	1203	Introduction to Office Management	2
3	English Composition requirement			1
3	Social Sciences requirement			1

### SECOND SEMESTER - 15 HOURS

HOURS				NOTES
3	OMT	1703	Advanced Computer Applications	2
3	OMT	2843	Medical Insurance and Billing	2
3	OMT	2983	Emerging Office Technologies	2
3	SPCH	1203	Introduction to Speech Communication	
3	English Composition requirement			1

### THIRD SEMESTER - 16 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	5
3	HLTH	1473	Medical Terminology	2
3	OMT	2343	Office Communication Essentials	2
3	OMT	2853	Medical Insurance Coding I	2
3	WFL	2413	Project Management	2
3	Mathematics requirement			1

### FOURTH SEMESTER - 14 HOURS

HOURS				NOTES
3	OMT	2863	Medical Insurance Coding II	2
3	OMT	2923	Integrated Office Procedures Project	2
4	Lab Science requirement			1
3	Required electives			2 & 3
1	Elective			4

60 Total Hours

#### Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with the following stipulations: lab sciences - select one course; social sciences - select one course from PSYC 1163, SOCI 2753, or POLS 2753.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Student must maintain a cumulative 2.25 GPA in these courses.
3. Required electives, three hours. Select from HLTH 1013, LEGL 2133, OMT 1653, OMT 286V, OMT 290V, OMT 299V, WFL 1374, or WFL 2503.
4. Elective, one hour. May take an elective or additional OMT course.
5. Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 (or approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

### OFFICE MANAGEMENT TECHNOLOGY - OFFICE MANAGEMENT OPTION

#### TECHNICAL CERTIFICATE MAJOR CODE: 4108

#### FIRST SEMESTER - 15 HOURS

HOURS				NOTES
3	ITA	1003	Computer Applications for the Knowledge Worker	2
3	LEGL	1043	Introduction to Law	2
3	OMT	1203	Introduction to Office Management	2
3	OMT	2343	Office Communication Essentials	2
3	English Composition requirement			1

#### SECOND SEMESTER - 15 HOURS

HOURS				NOTES
1	FIN	1521	Personal Finance Applications	4
3	OMT	1653	Employee Benefits	2

HOURS				NOTES
3	OMT 2843	Medical Insurance and Billing		2
3	OMT 2863	Medical Insurance Coding II		2
3	English Composition requirement			1
2	Required electives			2 & 3

30 Total Hours

Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. Student must maintain a cumulative GPA of 2.25 for these courses.
3. Required Electives, two hours. Select from HLTH 1013, HLTH 1473, LEGL 1043, LEGL 2133, OMT 1653, OMT 2983, OMT 286V, OMT 290V, OMT 299V, or WFL 1374.
4. Prior to graduation students must demonstrate competency 1.



HOURS				NOTES
3	PRFS	3143	Economic Analysis in the Workplace	2
3	PSYC	3173	Industrial - Organizational Psychology	2
3	Upper-level elective			3

#### SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	LEAD	3133	Organization Ethics	2
3	LEAD	4403	Nonprofit Organizations	2
3	PRFS	4033	Consensus Building and Continuous Improvement	2
3	PRFS	4133	Project Management	2
3	Upper-level elective			3

#### SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
3	LEAD	4123	Organizational Theory	2
3	LEAD	4693	Dimensions of Organizational Leadership - Capstone	2
3	Upper-level elective			3
3	Upper-level elective			3

120 Total Hours

At least 40 hours must be upper level

Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Upper-level (3000-4000) courses, 15 hours. Consult with advisor. Select to ensure completion of 40 upper-level hours required for graduation.
4. Lower-level elective, three hours. Select from MCOM 2223 or any lower-level world language course. Consult with faculty advisor.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

## Robotics

### CERTIFICATE OF PROFICIENCY

The robotics curriculum leads to the certificate of proficiency in robotics. Students will be introduced to robotics, develop hands-on skills in installing, designing, and implementing robot systems.

### CERTIFICATE OF PROFICIENCY

MAJOR CODE: 4011

### COURSE REQUIREMENTS

HOURS			
3	ELEC	2403	Introduction to Robotics
3	ELEC	2413	Robot Operations and Maintenance

HOURS			
3	ELEC	2423	Robot Programming

9 Total Hours

## Sustainable Energy Technologies

### CERTIFICATE OF PROFICIENCY

The curriculum leads to the certificate of proficiency in sustainable energy technologies. Students will develop hands-on skills in installing, commissioning and maintaining various clean energy generation systems and gain experience in conducting energy audits.

### CERTIFICATE OF PROFICIENCY

MAJOR CODE: 4012

### COURSE REQUIREMENTS

HOURS			
3	ELEC	3413	Energy Auditing
3	ELEC	3433	Generating Clean Electrons
Select one course (3-4 hours) from the following:			
4	CGT	2654	Architectural CAD Applications



## SECOND SEMESTER - 16 HOURS

HOURS				NOTES
4	CGT	1104	GPS Mapping Fundamentals	2
3	ELEC	1353	Electrical Circuits and Components	2
3	UAS	1143	UAS Pilot Flight Operations	2
3	UAS	1213	Computer Hardware	2
3	Mathematics requirement			1

## THIRD SEMESTER - 14 HOURS

HOURS				NOTES
3	GEOG	2753	World Regional Geography	
3	UAS	2113	UAS Maintenance	2
4	UAS	2124	Multi-Rotor Flight Lab	2
4	Lab Science requirement			1

## FOURTH SEMESTER - 15 HOURS

HOURS				NOTES
3	CGT	2343	UAS Remote Sensing	2
3	SPCH	1203	Introduction to Speech Communication	
3	UAS	2243	Fixed-Wing Flight Lab	2
3	UAS	2443	UAS Aerial Imaging	2
3	English Composition requirement			1

60 Total Hours

Notes:

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Follow requirements with the following stipulations: mathematics - MATH 1403



TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

# Workforce Leadership

ASSOCIATE OF APPLIED SCIENCE DEGREE  
 TECHNICAL CERTIFICATE  
 CERTIFICATE OF PROFICIENCY

This program is designed to provide career-building leadership skills that enhance promotion options for front line employees. Emphasis is placed on principles and tools of quality, computer technology, management, development of interpersonal and team-performance communication skills, and lean enterprise techniques.

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE  
 MAJOR CODE: 4042

## FIRST SEMESTER - 15 HOURS

HOURS				NOTES
4	WFL	1174	Total Quality Essentials	2
4	WFL	1374	Human Relations & Interpersonal Development	2
3	WFL	1703	Basic Business Communication Using Microsoft Office	2
4	WFL	2174	Introduction to Lean Enterprise Systems	2

## SECOND SEMESTER - 15 HOURS

HOURS				NOTES
3	WFL	1183	Occupational Safety	2
1	WFL	2501	Set-Up Reduction	2
3	WFL	2583	Team Development	2
2	WFL	2852	Problem Solving & Decision Making	2
3	English Composition requirement			1
3	Mathematics requirement			1

## THIRD SEMESTER - 15 HOURS

HOURS				NOTES
3	English Composition requirement			1
3	Social sciences requirement			1
9	WFL electives			2 & 3

## FOURTH SEMESTER - 15 HOURS

HOURS				NOTES
4	PHSC	2653/ 2651	Earth Science/Lab	
3	WFL	2903	Workforce Leadership Capstone	2
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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



earned on the test become part of the course grade; taking the test is a requirement for course completion.

6. Demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

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 degree, majors, minor and certificates indicated below.

#### BACCALAUREATE DEGREE WITH A MAJOR IN ONE OF THE FOLLOWING:

- Accounting
- Business Administration
- Finance
- International Business
- Marketing

#### MAJOR REQUIREMENTS

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

#### MINOR

- Business Administration

#### CERTIFICATE OF PROFICIENCY

- Community Leadership
- Professional Sales

## Accounting

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 ACCOUNTING MAJOR

MAJOR CODE: 0575

#### FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS	NOTES
1 MGMT 1201 Planning for Success	3
3 MATH requirement or elective	1 & 3
3 English Composition requirement	1
3 Fine Arts/Humanities/Social Sciences requirement	1
3 Fine Arts/Humanities/Social Sciences requirement	1

#### FRESHMAN YEAR SPRING SEMESTER - 16 HOURS

HOURS	NOTES
1 FIN 1521 Personal Finance Applications	3 & 6







### SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS		NOTES
3	Major Core	2 & 4
3	Major Core	2 & 4
3	Major Elective	2 & 5
3	Major Elective	2 & 5
3	Major Elective	2 & 5

### SENIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS		NOTES
3	Major Core	2 & 4
3	Major Core	2 & 4
3	Major Elective	2 & 5
3	Major Elective	2 & 5
3	Major Elective	2 & 5

120 Total Hours

At least 40 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 two courses from two different areas, excluding ECON 2803 and 2813; mathematics – MATH 2403 or higher MATH required, STAT 2503 must also be completed.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog. A cumulative GPA of 2.25 is required in these courses to meet graduation requirements for the College of Business.
3. Electives, 10 hours: Select courses that will satisfy degree requirements for a baccalaureate program. MATH 1403 is eligible to be used as a general elective if needed as a prerequisite for MATH 2403. Consult with advisor for other electives.
4. Students are required to complete the following business core courses- Lower-level business core: ACCT 2803, ACCT 2813, ECON 2803, ECON 2813, LAW 2003, MGMT 1203, MGMT 2203, and MGMT 2863; Upper-level



BACHELOR OF BUSINESS ADMINISTRATION (BBA) DEGREE  
INTERNATIONAL BUSINESS MAJOR

MAJOR CODE: 0584

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
1	MGMT	1201	Planning for Success	3
3	MGMT	1203	Foundations of Business	

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

8. Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 (or approved substitution) with a grade of C or better, or score 70% or more on a challenge exam for FIN 1521.

## Marketing

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 MARKETING MAJOR

MAJOR CODE: 0580

#### FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS	NOTES
1 MGMT 1201 Planning for Success	3
3 MGMT 1203 Foundations of Business	2 & 4
3 MATH requirement or elective	1 & 3
3 English Composition requirement	1
3 Fine Arts/Humanities/Social Sciences requirement	1
3 Fine Arts/Humanities/Social Sciences requirement	1



# COLLEGE OF COMMUNICATION, LANGUAGES, ARTS, AND SOCIAL SCIENCES

The College of Communication, Languages, Arts, and Social Sciences (CLASS) is the largest and most diverse college at UAFS. The college emphasizes intellectual curiosity, creativity, informed openness, and an integrated, student-centered focus on education and community service. Students are encouraged to consider interdisciplinary approaches in the college through the cross-fertilization of disciplinary facts and ideas as students think analytically about past and present issues related to media, the social, political, cultural, and creative facets of society, diversity, social justice, and criminology among other aspects of the human experience. The CLASS milieu facilitates excellent communication, independent judgment, tolerance, and reflective and evaluative thinking, all of which ultimately promote ethical decision making. As they journey through college, CLASS students are challenged to achieve their highest potential and to contemplate their positions first as citizens, and second as the next generation of leaders in the workforce. Upon graduation, many students choose to join the workforce immediately, while others go on to earn graduate and professional degrees at diverse institutions across the United States and internationally.

The College of CLASS offers the degrees, majors, and minors indicated below.

## BACHELOR OF ARTS (BA) DEGREE

- English
- History

TECHNICAL CERTIFICATE

- Crime Scene Investigation
- Law Enforcement Administration

CERTIFICATE OF PROFICIENCY

-





HOURS				NOTES
3	PSYC	1163	General Psychology	
3	English Composition requirement			1
4	Lab Science requirement			1

#### SOPHOMORE YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	CJ	2313	Correctional Systems and Practices	2
3	CJ	2603	Courts and Criminal Procedure	2
3	STAT	2503	Probability and Statistics I	
3	Fine Arts/Humanities requirement			1
4	Lab Science requirement			1

#### SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
2	CJ	2402	Crime Scene Documentation	2
4	CJ	2504	Criminalistics: An Introduction to Forensic Science	2
3	CJ	2513	Juvenile Delinquency and Juvenile Justice	2
3	POLS	2753	American National Government	
3	Fine Arts/Humanities requirement			1

#### JUNIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	CJ	2373	Police Systems and Practices	2
3	CJ	2403	Legal Aspects of Law Enforcement	2
3	POLS	2853	State and Local Government	
4	World Language requirement			5
3	Upper-level Criminal Justice elective			2 & 33F -13.25 re 133n /GS0 1m35.04 -14.498 re f 0.945 0.947 0.949 sc3129 71re 264.96 402.529 sc312Ujst



HOURS		NOTES
3	English requirement	2 & 4
3	English requirement	2 & 4
3	Additional degree requirement	5
3	Additional degree requirement	5

#### SENIOR YEAR FALL SEMESTER - 13 HOURS

HOURS		NOTES
3	ENGL 4213 Shakespeare	2
3	ENGL 4813 Introduction to Digital Humanities	2
3	ENGL 4993 Capstone	2
3	English requirement	2 & 4
1	Additional degree requirement	5

#### SENIOR YEAR SPRING SEMESTER - 13 HOURS

HOURS		NOTES
3	ENGL 4203 Chaucer	2
3	Additional degree requirement	5
3	Additional degree requirement	5
3	Additional degree requirement	5
1	Additional degree requirement	5

120 Total Hours

At least 40 hours must be upper-level.

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. Follow requirements with these stipulations: humanities-select one course from ENGL 2013, ENGL 2023, or PHIL 2753.
2. These courses are used to determine major courses in residency, see Graduation Requirements. Students must earn a grade of C or better in all courses counted toward the major.
3. Core English courses, nine hours. Select three courses from ENGL 3013, 3023, 3033, or 3043.
4. E

HOURS				NOTES
3	ENGL	3443	Literature of Diverse Cultures	2
3	ENGL	2503	Language and Society	
3	Core English course			2 & 3

Admission to School of Education, Educator Preparation Program: students must be admitted into the School of Education prior to enrollment in particular courses.

JUNIOR YEAR FALL SEMESTER - 15 HOURS





studies teacher licensure provides students with the educational

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

**REQUIRED NINE HOURS:**

HIST	1133	Civilizations of the World since 1500
HIST	2753	United States History I
HIST	4153	History of Arkansas

**SELECT THREE HOURS OF UNITED STATES HISTORY:**

HIST	3400 or 4100 series	
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**SELECT SIX HOURS OF WORLD HISTORY:**

HIST	3000, 3100, 3200, 3300, 3500, 3600, 4200, or 4300 series.	
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## History with Social Studies Teacher Licensure 7-12

BACHELOR OF SCIENCE (BS) DEGREE  
MAJOR CODE: 3574

4. Requirements for Admission in Educator Preparation Program (EPP). These must be completed with required grades for admission into the program. Consult with faculty advisor regarding School of Education admission requirements and for courses taken after admission to program.

5. Must be admitted to the School of Education, Educator Preparation Program.

The department requires POLS 2753, POLS 2853, and all history courses counted toward fulfillment of degree requirements to be passed with a grade of B or better.

Students must earn a C or higher in all courses on the degree plan. Students must maintain a 2.75 cumulative GPA or better. GPA is tracked throughout the program and verified for admission into internship.

Prior to graduation, students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 (or approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

## Law Enforcement Administration

UAFS offers the associate of applied science, technical certificate, and certificate of proficiency in law enforcement administration degree to law enforcement officials who successfully complete the indicated courses from the University



Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog. Select ENGL 1203 or ENGL 1233.

## Media Communication





### 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
2	EDUC 2752 Introduction to Education 2 & 3
1	MUSI 2781 Sight Singing & Ear Training III 2
3	MUSI 2803 Music Theory III 2
1	MUSI 2821 Percussion Instruments 2 & 4
1	MUSR 1441 Symphonic Band 2
2	MUS_ 1252 Private Instruction 2
0	MUSI 1000 Recital Attendance 2
1	MUSC 2161 Class Piano III (for non-piano majors) 6
4	SPAN 1304 Beginning Spanish I
3	Fine Arts/Humanities/Social Sciences requirement 1

### SOPHOMORE YEAR SPRING SEMESTER - 15 (16) HOURS

HOURS	NOTES
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 & 4
1	MUSR 1441 Symphonic Band 2
2	MUS_ 1252 Private Instruction 2
0	MUSI 1000 Recital Attendance 2
1	MUSI 2171 Class Piano IV (for non-piano majors) 6
3	Fine Arts/Humanities/Social Sciences requirement 1
4	Lab Science requirement 1

Admission to School of Education, Educator Preparation Program: Students must be admitted into the School of Education prior to enrollment in particular courses.

### JUNIOR YEAR FALL SEMESTER - 16 HOURS

HOURS	NOTES
3	EDUC 3013 Human Development and Learning 2 & 5
1	EDUC 3221 Practicum I 2 & 5
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 & 4
1	MUSI 4861 Brass Instruments 2 & 4
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
3	MUSI 3513 Music History II 2
2	MUSI 3852 Conducting II: Instrumental 2
3	MUSI 3833 Elementary Music Methods and Materials 2
2	MUSI 4532 Form and Analysis 2
1	MUSI 3851 Woodwinds II 2 & 4
1	MUSR 3441 Symphonic Band 2
2	MUS_ 3252 Private Instruction 2
0	MUSI 3000 Recital Attendance 2
3	History/Government requirement 1

### SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS	NOTES
2	EDUC 3612 Classroom and Behavioral Management 2 & 5
1	EDUC 4211 Practicum II 2 & 5
3	MUSI 4853 Secondary Instrumental Methods and Materials 2
1	MUSR 3441 Symphonic Band 2
2	MUS_ 3252 Private Instruction 2
0	MUSI 3000 Recital Attendance 2
0	MUSI 4030 Senior Recital 2
2	SPED 3022 Survey of Diverse Populations 2 & 5
4	Lab Science requirement 1

### SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS	NOTES
2	EDUC 4802 Seminar in Education 2 & 5
10	EDUC 490A Internship 2 & 5

will be required to pass (with a minimum grade of C) up to four hours of class piano (MUSC 1161, 1171, 2161, and 2171).

A student earning a bachelor of music education – instrumental music degree will have completed the requirements to be eligible to apply for teacher licensure in instrumental music K-12 as issued by the Arkansas State Department of Education.

Students must earn a C or higher in all courses on the degree plan. Students must maintain a 2.75 cumulative GPA or better. GPA is tracked throughout the program and verified for admission into internship.

Prior to graduation, students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

## Music Education Vocal Music

BACHELOR OF MUSIC EDUCATION (BME) DEGREE

MAJOR CODE: 3570

CONC. CODE: C007

FRESHMAN YEAR FALL SEMESTER - 16 (17) HOURS

FRESHMAN YEAR FALL SEMESTER - 16 (17) HOURS				





HOURS				NOTES
3	PSYC	2963	Developmental Psychology: A Life Span	2
3	Fine Arts/Humanities/Social Sciences requirement			1
4	Lab Science requirement			1
4	World Language requirement			5

#### SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	PHIL	2753	Introduction to Philosophy	
3	PSYC	2613	Research Methods in Psychology	2
3	Fine Arts/Humanities/Social Sciences requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1
3	World Language requirement			5

#### JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	PHIL	3203	Ethics Across the Disciplines	
3	PSYC	3503	Behavioral Statistics	2
3	PSYC	3613	Experimental Psychology	2
3	History/Government requirement			1
3	Additional degree requirement			4

#### JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	PSYC	3133	Social Psychology	2
3	PSYC	3183	Cognitive Psychology	2
3	PSYC	4133	Physiological Psychology	2
3	Additional degree requirement			4
3	Additional degree requirement			4

#### SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	PSYC	4153	Conditioning and Learning	2
3	PSYC	4223	Psychology of Personalit	4
3	Additional degree requirement			4







Students must apply and be admitted to the BSW prior to start of junior year.

### JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
3	SOWK	3113	Social Work Practice I	2
3	SOWK	3413	Diversity and Social Economic Justice	2
3	SOWK	3523	Social Work in Mental Health	2
3	SOWK	3823	Social Policy Analysis and Advocacy	2
3	Elective requirement			3

### JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	SOWK	3423	Social Work Practice II	2
3	SOWK	3433	Populations at Risk	2
3	SOWK	3733	Social Work Practice III	2
3	SOWK	3833	Special Populations: Advocacy for Geriatric Care	2
3	SOWK	3843	Child Welfare Services	2

### SENIOR YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES

SOCI 4203 Sociology: Special Topics

SOCI 4803 Senior Seminar

## Spanish

BACHELOR OF ARTS (BA) DEGREE

MAJOR CODE: 2557

FRESHMAN YEAR FALL SEMESTER - 16 HOURS

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

Students who pass both the WPT and OPIc with an awarded score of advanced-low or higher may be able to fast track their degree progression and earn credit towards their degree.

**SPANISH MINOR**  
**MINOR CODE: A008**

The minor in Spanish requires 18 hours of coursework.

**REQUIRED NINE HOURS:**

SPAN	2313	Intermediate Spanish II or
SPAN	2323	Intermediate Spanish II for Heritage Speakers
SPAN	3013	Spanish Grammar
SPAN	3063	Advanced Composition

**SELECT NINE HOURS (AT LEAST THREE HOURS MUST BE UPPER-LEVEL)**

FORL	2552	Language Practice (Spanish)
SPAN	2303	Intermediate Spanish I
SPAN	2833	Spanish for the Professions
SPAN	3003	Phonetics and Pronunciation
SPAN	3023	Spanish Conversation
SPAN	3053	Cultural Readings
SPAN	3333	Spanish-American Literature and Civilizations
SPAN	3343	Literature and Civilizations of Spain
SPAN	3553 4953	Immersion in a Spanish Speaking Region or Spanish Internship
SPAN	4023	Advanced Conversation
SPAN	405V	Special Topics
SPAN	4053	Topics in Culture
SPAN	4153	Topics in Literature
SPAN	4603	Spanish Linguistics
SPAN	464V	Spanish Independent Study

## Spanish with Teacher Licensure K-12

**BACHELOR OF SCIENCE (BS) DEGREE**  
**MAJOR CODE: 3580**

Students who pass both the WPT and OPIc with an awarded score of Advanced-Low or higher may be able to earn credit towards their degree. Please see your advisor for more information.

**FRESHMAN YEAR FALL SEMESTER - 16 HOURS**

## SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS	NOTES
2 EDUC 4222 Assessment	6
3 SPAN 4023 Advanced Conversation	2
3 SPAN 4993 Capstone	2
3 Spanish elective	2 & 4
3 Spanish elective	2 & 4

## SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS	NOTES
2 EDUC 4802 Seminar in Education	6
10 EDUC 490A Internship	6

120 Total Hours

At least 40 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, Graduation Requirements section of this catalog.
3. Elective, three hours. Select in consultation with faculty advisor.
4. Spanish electives, 15 hours. Select from SPAN 2303, 2833, 3023, 405V, 4053, 4153, 4603, 464V. SPAN 4053 and SPAN 4153 may each be repeated one time for credit when topics differ.
5. Requirements for admission to the Educator Preparation Program (EPP). Must be completed with required grades for admission requirements. Consult with faculty advisor regarding School of Education admission requirements and for courses taken after admission to program.
6. Must be admitted to the School of Education, Educator Preparation Program.
7. Travel study and internship courses help students to attain oral, cultural, and professional proficiencies. Consult with faculty advisor to arrange for immersion experience.
8. Prior to graduation, students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

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.

All Spanish with teacher licensure majors are required to pass a Capstone project (SPAN 4993) with a grade of C or better prior to graduation.

Students must earn a C or higher in all courses on the degree plan. Students must maintain a 2.75 cumulative GPA or better. GPA is tracked throughout the program and verified for admission into internship.

## Speech

### SPEECH MINOR MINOR CODE: A016

The minor in speech requires 18 hours of coursework. A grade of C or higher is required in all courses counted toward minor.

### REQUIRED NINE HOURS:

MCOM 2223	Communication Theory
SPCH 2223	Advanced Public Speaking
Select one from the following:	
SPCH 3303	Interpersonal Communication
SPCH 3403	Small Group Communication

HOURS	NOTES
3 SPCH 1203 Introduction to Speech Communication	
3 Fine Arts/Humanities/Social Sciences requirement	1
3 Upper-level studio art requirement	2 & 3
4 World Language requirement	4

#### JUNIOR YEAR FALL SEMESTER - 16 HOURS

HOURS	NOTES
3 Fine Arts/Humanities/Social Sciences requirement	1
3 Upper-level art history requirement	2 & 3
3 Upper-level studio art requirement	2 & 3
4 World Language requirement	4
3 Additional degree requirement	5

#### JUNIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS	NOTES
3 History/Government requirement	1
3 Upper-level studio art requirement	2 & 3
3 Upper-level studio art requirement	2 & 3
3 Additional degree requirement	5
2 Additional degree requirement	5

#### SENIOR YEAR FALL SEMESTER - 15 HOURS

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

#### SENIOR YEAR SPRING SEMESTER - 13 HOURS

HOURS	NOTES
4 ART 4954 Studio Art Capstone	2
3 Additional degree requirement	5
3 Additional degree requirement	5
3 Additional degree requirement	5

120 Total HI78 0 Td [(A)-45 (RT)]TJ 0 Tc 78 0 Td [(A)-45 (RT)]TJ 7T9 (yO.5 76 l(r (3)Tj 3 90 0 scn]TJ t ID)1t.73 h8 0 Tmu1t.be u (t )10 (ehe DI A)

HOURS			
3	ENGL FORL	4333	Second Language Assessment
3	ENGL FORL	4353 4343	Teaching People of Other Cultures

#### SELECT SIX HOURS:

3	ENGL	3003	History and Development of the English Language
3	ENGL	3663	English Grammar
3	ENGL FORL	130V	Language and Culture
3	ENGL FORL	2503	Language and Society
3	ENGL/ FORL	3503	Languages of the World
3	FREN	2303	Intermediate French I or higher
3	GERM	2303	Intermediate German I or higher
3	MCOM	4203	Intercultural Communication
3	PORT PORT	2303 1413	Intermediate Portuguese I or higher or Portuguese for Spanish Speakers
3	SPAN	2303	Intermediate Spanish I or higher

#### TEACHING ENGLISH AS A SECOND LANGUAGE

##### CERTIFICATE OF PROFICIENCY

##### MAJOR CODE: 2543

The certificate of proficiency in TESL requires 15 hours of coursework. A minimum 2.00 grade point average is required for all courses used to meet the requirements of the certificate and no student will be allowed to receive the certificate with a grade of D in more than one course. At least 50% of the course requirements for the certificate must be completed in residency.

##### COURSE REQUIREMENTS

##### REQUIRED 12 HOURS OF CORE COURSES

HOURS			
3	ENGL FORL	4313	Second and Foreign Language Teaching Methods
3	ENGL FORL	4323	(COURSED NIN O 141..14)TjRS82E(ritrser highefw94a0.651g4age6h l(36653628age RHES78a00 )(46053akers)]F45Tfw [0.656ghf o21Scier



### SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS	NOTES
3 THEA 2313 Voice and Movement	2
3 THEA 2513 Fundamentals of Design	2
1 theatre practicum	2 & 3
4 Lab Science requirement	1
4 World Language requirement	5

### SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS	NOTES
1 THEA 1721 Studio Dance II	2
3 THEA 3603 Directing I	2
4 Lab Science requirement	1
4 World Language requirement	5
3 Additional degree requirement	6

### JUNIOR YEAR FALL SEMESTER - 15 HOURS

HOURS	NOTES
3 PHIL 3103 Reasoning Across the Disciplines or PHIL 3203 Ethics Across the Disciplines	
3 theatre requirement	2 & 4
3 theatre requirement	2 & 4
3 Additional degree requirement	6
3 Additional degree requirement	6

### JUNIOR YEAR SPRING SEMESTER - 15 HOURS

HOURS	NOTES
3 theatre requirement	2 & 4
3 theatre requirement	2 & 4
3 Fine Arts/Humanities/Social Sciences requirement	1
3 Additional degree requirement	6
3 Additional degree requirement	6

### SENIOR YEAR FALL SEMESTER - 14 HOURS

HOURS	NOTES
3 theatre requirement	2 & 4
3 theatre requirement	2 & 4
1 theatre practicum	2 & 3
1 theatre practicum	2 & 3
3 History/Government requirement	1
3 Additional degree requirement	6

### SENIOR YEAR SPRING SEMESTER - 14 HOURS

HOURS	NOTES
3 theatre requirement	2 & 4
3 theatre requirement	2 & 4
3 Additional degree requirement	6
3 Additional degree requirement	6
2 Additional degree requirement	6

120 Total Hours

At least 40 hours must be upper level

### Notes

1. General Education Core Requirements, see Graduation Requirements section of this catalog.
2. These courses are used to determine major courses in residency, see Graduation Requirements.
3. Theatre practicum, four hours: THEA 1431 and THEA 1451 are required and must be taken twice each.
4. Theatre requirements, 24 hours. 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 three hours of an upper-level theatre elective.
5. World language requirement, eight hours. Must complete through Beginning II of a world language.
6. Additional degree requirements, 26 hours; at least 10 hours must be upper level. Consult with faculty advisor. A minor is required; follow respective minor requirements. Select additional electives as needed.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

### THEATRE MINOR MINOR CODE: A011

The minor in theatre requires 20 hours of coursework.

### REQUIRED 14 HOURS:

THEA 1203	Introduction to theatre
THEA 1303	Acting I
THEA 1431	theatre Practicum (Performance)
THEA 1451	theatre Practicum (Technical)
THEA 1503	Stagecraft
THEA 4213 4223	theatre History I or theatre History II

### SELECT SIX HOURS:

Any upper-level THEA
THstagecraft

HOURS	NOTES
3	History/Government requirement 1
3	Humanities requirement 1
3	Mathematics requirement 1
8	Lab Science 1
6	Social Sciences requirement 1
3	SPCH 1203 Introduction to Speech Communication
1	IDS 3001 Workplace Readiness
3	PHIL 3103 Reasoning Across the Disciplines or PHIL 3203 Ethics Across the Disciplines
6	Additional general education electives 3
33	Primary emphasis 2 & 4
18	Secondary Emphasis 2 & 5
24	Additional degree requirements 6

120 Total Hours

At least 40 hours must be upper-level

Notes

1. Follow the General Education Core Requirements, see Graduation Requirements section of catalog.
2. Use courses ~~as~~ used to determine major courses in residency. See Graduation Requirements section in this catalog. Students must earn a grade of C or better in all courses counted toward major.
3. Additional General Education requirements must be selected from areas outside the primary emphasis.
4. Select primary emphasis of 33 hours from the groups below. A minimum of 18 hours must be from courses with same pre x. A minimum of 15 hours must be at the upper level (3000-4000) within the group.

Group I – Humanities and the Arts

Courses from Art, Communication, English, World Languages, Graphic Design, History, Humanities\*, Music, Philosophy, Speech, Religion\*, Rhetoric and Writing, Theatre

Group II – Natural Sciences and Mathematics

Courses from Biology, Chemistry, Geology, Mathematics, Physical Science\*, Physics, Statistics\*, Information Technology

Group III – Social Sciences

Courses from Anthropology, Criminal Justice, Geography, Political Science, Psychology, Sociology

\*Disciplines may not be used for the 18 same pre x primary emphasis requirement but can be used to meet the 33 hour group requirement.

Note: A course in the general education core can be used in an emphasis but cannot be counted for both a general education requirement and an emphasis requirement.

5. Select secondary emphasis of 18 hours from a group different than selected for the primary emphasis, or from Business (ACCT, ECON, FIN, LAW, MGMT, or MKTG).
6. Additional degree requirement, 24 hours. Select elective courses in consultation with advisor.

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by a score of 70% or more on a challenge exam for FIN 1521.

## Associate of Arts

The associate of arts (AA) degree provides the student with the opportunity to obtain the first two years of college credits towards meeting most of the general education requirements and some of the prerequisites for the baccalaureate degree.

### DEGREE REQUIREMENTS

MAJOR CODE: 0000



TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



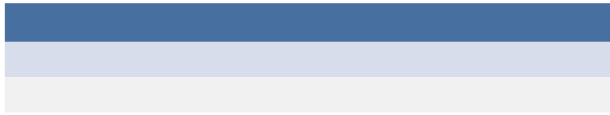


TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



**SUGGESTED PROGRAM COMPLETION PLAN FOR  
SPRING ADMISSION**

**SPRING SEMESTER - 14 HOURS**

HOURS				NOTES
2	DHYG	4542	Public Health Dentistry	2 & 4
3	RHET	3203	Textual Research Methods	2
3	MCOM	2223	Communication Theory	2
3	STAT	2503	Probability and Statistics I	2
3	Fine Arts requirement			1

**SUMMER - 3 HOURS**

HOURS				NOTES
3	History/Government requirement			1

**FALL SEMESTER - 15 HOURS**

HOURS				NOTES
2	DHYG	4142	Advanced Dental Hygiene Theory for Special Needs Patients	2 & 4
3	HLTH	4103	Research in the Health Sciences	2 & 4
3	PYSC	2963	Developmental Psychology: A Life Span	2
4	SPAN	1304	Beginning Spanish I	2
3	Humanities requirement			1

120 Total Hours

**SUGGESTED PROGRAM COMPLETION PLAN FOR  
FALL ADMISSION**

**FALL SEMESTER - 15 HOURS**

HOURS				NOTES
2	DHYG	4142	Advanced Dental Hygiene Theory for Special Needs Patients	2 & 4
3	RHET	3203	Textual Research Methods	2
4	SPAN	1304	Beginning Spanish I	2
3	SPCH	2203	Foundations of Communication	2
3	STAT	2503	Probability and Statistics I	2

**SPRING SEMESTER - 14 HOURS**

HOURS				NOTES
2	DHYG	4542	Public Health Dentistry	2 & 4

## ADMISSION REQUIREMENTS

1. Meet UAFS admission requirements.
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 Basic Life Support (BLS) for Healthcare Providers or American Red Cross Basic Life Support (BLS) for the Professional Rescuer certification.

Note: The Arkansas Department of Health requires a background check to be completed on all EMT students. Students with an adverse or negative background check will be unable to complete the course.

## EMERGENCY MEDICAL TECHNOLOGY (EMT)

### CERTIFICATE OF PROFICIENCY

MAJOR CODE: 2003

HOURS			
8	EMT	1408	Emergency Medical Technology-Basic

8 Total Hours

## 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) leadership and 2) diagnostic medical sonography. Both degrees build upon the AAS degree in radiography. This baccalaureate program provides the educational foundation for registered imaging professionals to expand their career opportunities, while providing the community with quality healthcare practitioners in imaging sciences. The BSIS program allows registered imaging professionals 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 DEGREE

#### ADMISSION CRITERIA

To be considered for admission into the program, students must meet the following criteria:

1. Complete UAFS admission requirements to include submission of official transcripts from all colleges/universities attended.
2. Have a minimum 2.50 cumulative grade point average (GPA) for all college coursework (including transfer work and excluding developmental courses) and be in good academic standing.

3. Complete required prerequisite courses for the program with a grade of C or higher in each course prior to fall entry.
4. Submit an official transcript showing successful completion of a Joint Review Committee on Education in Radiologic Technology (JRCERT) approved associate degree in radiologic technology OR receive 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 certification examination.
  - c. Successful academic performance (C or better) in 15 semester credit hours in the BSIS general education curriculum.
5. Hold a current, valid, unencumbered ARRT certification.

#### APPLICATION

Admission into the DMS program is competitive. Students who meet the minimum criteria identified above are eligible to submit an application for admission.

1. Application deadline is May 15 for fall entry into the program.
2. Eligible students must submit an application for admission to the DMS program director prior to the application deadline.

#### SELECTION

Selection is based on the following:

- Cumulative grade point average for all college-level work.
- Interview.
- Place of residence.

Selection preference is given to those who are near successful completion of the general education curriculum and the Imaging Sciences core courses.

Students admitted into the DMS Program must submit the following additional documentation prior to fall entry.

1. Health Care Provider Statement/Medical Release form
2. Proof of immunizations
3. CPR Certification: American Heart Association Basic Life Support (BLS) for Healthcare Providers
4. Criminal background check
5. Drug screen

Note: Many clinical facilities require a criminal background check and/or drug screen on CHS students and have the authority to deny clinical training in their facility, secondary to outcome of either screening. Students unable to practice in any clinical agency because of the outcome of either screening will be unable to complete the program objectives, thereby revoking admission into a program or halting continued progression in the student's program of study.



DIAGNOSTIC MEDICAL SONOGRAPHY  
 BACHELOR OF SCIENCE DEGREE REQUIREMENTS  
 MAJOR CODE: 2066

PRE-PROGRAM REQUIREMENTS

HOURS		NOTES
6	English Composition	1
3	Speech	1
3	Mathematics	1
8	Lab Science	1 & 5
3	Fine Arts	1
3	Humanities	1
3	History/Government	1
6	Social Sciences	1
30	Credit for coursework in other imaging sciences programs	4

65 Total Pre-Program Hours

DIAGNOSTIC MEDICAL SONOGRAPHY

The DMS professional courses are sequential. Admission into the DMS program is required for enrollment into ISS and IS courses.

FALL SEMESTER - 11 HOURS

HOURS		NOTES
3	ISS 3103 Acoustical Physics & Instrumentation	2
3	ISS 3113 Cross-Sectional Anatomy	2
2	ISS 3102 Clinical Lab Practice	2
3	IS 3103 Legal and Ethical Considerations in Healthcare	3

SPRING SEMESTER - 11 HOURS

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

SUMMER TERM - 9 HOURS (10 WEEKS)

- a. Joint Review Committee on Education in Radiologic Technology (JRCERT) approved associate degree program in radiologic technology.
- b. Joint Review Committee on Educational Programs in Nuclear Medicine Technology (JRCNMT) approved associate degree program in nuclear medicine.
- c. Joint Review Committee on Education in Diagnostic Medical Sonography (JRCDMS) approved associate degree program in diagnostic medical sonography.

OR

Receive credit by articulation. Registered radiologic technologist who do not possess an associate degree may receive 40 imaging sciences credit hours by providing documentation of the following three requirements:

- Graduation from a JRCERT approved school of Radiologic Technology or JRCNMT approved school of Nuclear Medicine, or JRCDMS approved school of Diagnostic Medical Sonography.
  - A passing score on the American Registry of Radiologic Technologists certification examination or the ARDMS examination.
  - Successful academic performance (C or better) on 15 semester credit hours in the BSIS general curriculum.
5. Hold a current valid, unencumbered ARRT certification or ARDMS certification.

#### IMAGING SCIENCES - LEADERSHIP BACHELOR OF SCIENCE DEGREE REQUIREMENTS MAJOR CODE: 2065

##### PRE-PROGRAM REQUIREMENTS

HOURS		NOTES
6	English Composition	1
3	Speech	1
6	Mathematics	1
8	Lab Science	1 & 5
3	Fine Arts	1
3	Humanities	1
3	History/Government	1
6	Social Sciences	1
40	Credit for coursework in other imaging sciences programs	4

78 Total Pre-Program Hours

##### IMAGING SCIENCES - LEADERSHIP

ISL courses in the BSIS-Leadership 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.

##### FALL SEMESTER - 18 HOURS

HOURS		NOTES
3	HLTH 4103 Research in the Health Sciences	2

Prior to graduation students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 Personal Finance Applications (or an approved substitution) with a grade of C or better, or by score a of 70% or more on a challenge exam for FIN 1521.

## 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. Graduates are prepared to sit for the National Council Licensing Examination for Registered Nurses (NCLEX-RN) upon successful completion of the program. Theory, laboratory, and clinical practice may be scheduled in the morning, afternoon, evening, and weekend hours to provide optimal learning experiences.

The Arkansas State Board of Nursing (ASBN) requires criminal background checks for all nursing applicants. Applicants must be U.S. citizens or permanent residents. Applicants must be at least 18 years of age at the time of application.

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HOURS	NOTES

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

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5. Have a current, unencumbered license as a registered nurse or a valid, unencumbered license must be maintained through the completion of the RN-BSN program.
6. Have evidence of work experience or satisfactory completion of an RN Refresher course according to the following guidelines:
  - a. 0-12 months after graduation – no work experience required.
  - b. >12 months after graduation – at least 1000 hours of nursing employment during the last 12 to 24 months or successful completion of an RN Refresher course approved by the executive director of the Carolyn McKelvey Moore School of Nursing or dean of the College of Health Sciences.
7. Science courses taken within five years prior to program application may not be eligible. See advisor for more information and to request a science course evaluation.

Note: RNs who have met these guidelines are eligible to receive credit for core nursing courses (35 credits) by validation (without testing).

#### APPLICATION

Students who meet the minimum criteria identified above are eligible to submit an application for admission

1. Application deadline for initial admission is March 1 for fall entry into the program and October 1 for spring entry into the program.
2. Eligible students must submit an application for admission to the advising coordinator for the College of Health Sciences prior to the application deadline.

#### RN TO BSN ONLINE COMPLETION

#### BACHELOR OF SCIENCE IN NURSING (BSN) DEGREE REQUIREMENTS

MAJOR CODE: 2017

#### PRE-PROGRAM REQUIREMENTS

HOURS		NOTES
6	English Composition	1
3	Speech	1
6	Mathematics	1
16	Lab Science	1 & 3
3	Fine Arts	1
3	Humanities	1
3	History/Government	1
12	Social Sciences	1
3	RHET 3603 Writing for the Workplace	
35	Nursing credit for RN licensure held in escrow	4

90 Total Pre-Program 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

#### SUGGESTED PROGRAM COMPLETION PLAN FOR SPRING ADMISSION

##### SPRING SEMESTER - 15 HOURS

HOURS				NOTES
3	HLTH	3103	Pathophysiology (16 wks)	2
3	HLTH	4103	Research in Health Sciences (16 wks)	2
4	NURS	3164	Health Assessment (1st 8 wks)	2
5	NURS	4805	Current Issues and Trends in Professional Nursing Practice (16 wks)	2

##### SUMMER I TERM - 3 HOURS

HOURS				NOTES
3	NURS	4603	Health Promotion and Teaching (summer I - 5 wks)	2

##### FALL SEMESTER - 12 HOURS

HOURS				NOTES
5	NURS	4305	Leadership & Management in Professional Nursing (16 wks)	2
4	NURS	4654	Community as Client (16 wks)	2
3	NURS	4903	Dimensions in Professional Practice (2nd 8 wks)	2

120 Total Hours

#### SUGGESTED PROGRAM COMPLETION PLAN FOR FALL ADMISSION

##### FALL SEMESTER - 12 HOURS

HOURS				NOTES
3	HLTH	3103	Pathophysiology (16 wks)	2
4	NURS	3164	Health Assessment (1st 8 wks)	2
5	NURS	4805	Current Issues and Trends in Professional Nursing Practice (16 wks)	2

##### SPRING SEMESTER - 12 HOURS

At least 40 hours must be upper level

Notes

1. General Education Core Requirements, see Graduation Requirements section of catalog. English composition - select ENGL 1203/1213; mathematics - MATH 1403 or mathematics with MATH 1403 as a prerequisite and STAT 2503; lab science, 16 hours - BIOL 1463/1461, BIOL 2203/2201, and BIOL 2213/2211 are required, and select from CHEM 1303/1301, PHSC 2713/2711, GEOL 1253/1251, PHSC 2653/2651, or PHYS 2803/2811 or higher PHYS; social sciences, 12 hours - PSYC 1163 and PSYC 2963 are required, and select two additional courses.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Science courses taken mor

the outcome of either screening. Students unable to practice in any clinical agency because of the outcome of either screening will be unable to complete the program objectives, thereby revoking admission into a program or halting continued progression in the student's program of study.

**ACCELERATED BACHELOR OF SCIENCE IN NURSING DEGREE REQUIREMENTS**

MAJOR CODE: 2015

**PRE-PROGRAM REQUIREMENTS**

Requires a completed bachelor or graduate degree in a non-nursing discipline.

HOURS		NOTES
6	English Composition	1 & 3
3	Speech	1 & 3
6	Mathematics	1 & 3
16	Lab Science	1, 3 & 4
3	Fine Arts	1 & 3
3	Humanities	1 & 3
3	History/Government	1 & 3
6	Social Sciences	1 & 3
3	HLTH 3103 Pathophysiology	2, 3 & 4
3	HLTH 4103 Research in the Health Sciences	2 & 3
3	NUTR 2523 Nutrition	3
3	PHAR 3203 General Pharmacology	3
3	PSYC 2963 Developmental Psychology: A Life Span	3

61 Total Pre-Program Hours

**SUGGESTED PROGRAM COMPLETION PLAN FOR SPRING ADMISSION**

SPRING SEMESTER - 17 HOURS


See advisor for more information and to request a science course evaluation.

A grade of C or better is required in all courses applicable to this program.







# COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

The College of Science, Technology, Engineering, and Mathematics (STEM) provides students with the knowledge and skills to discover relevant questions and their solutions for problems beyond the classroom. Using experiential and empirical pedagogical approaches, STEM provides an environment that encourages inquisitiveness, problem solving, and innovation. Furthermore, the College delivers advanced specialized training to future leaders in mathematics, the sciences, engineering, and technology, developing thinking skills to prepare students for professional fields and graduate study. We use the latest technology and innovative teaching strategies to provide learning experiences that enable a diverse population of students to demonstrate the skills, knowledge, and attitudes required for lifelong learning.

STEM also houses the School of Education. See the School of Education section of this catalog for information on its programs and degrees.

STEM offers the following degrees and minors:

## BACHELOR OF SCIENCE (BS) DEGREE

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

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

- Biology with Life Science Teacher Licensure 7-12
- Mathematics with Teacher Licensure 7-12

## ASSOCIATE OF SCIENCE (AS) DEGREE

- Electrical Engineering
- Mechanical Engineering

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

• Electrical Engineering (BSEE)

• Mechanical Engineering (BSME)

## MINORS

• Applied Statistics

• Biology

• Chemistry

• Geoscience

• Information Technology

• Mathematics

• Physics

## CERTIFICATE OF PROFICIENCY

• Data Analytics

## PRE-DENTISTRY, PRE-MEDICAL, PRE-OPTOMETRY, PRE-PHARMACY, AND PRE-VETERINARY

Any student interested in seeking admission to a professional program after earning a degree at UAFS should note the following information:

### Selection of a Major

Professional programs recognize the importance of a broad educational background to include a solid foundation in the natural sciences, social sciences and humanities with good communication skills. Almost any academic major with appropriate course selection sufficient to include the necessary prerequisite courses required for admission to the professional program can provide this background. UAFS offers a number of majors that provide sufficient flexibility.

### Required Courses

Each professional program will have a list of courses required for admission; students are advised to review those requirements. In general most programs require at a minimum that students seeking admission complete eight hours of biological sciences, eight hours of general chemistry, eight hours of organic chemistry, and eight hours of physics. Other courses such as biochemistry, calculus, genetics, microbiology, and courses in psychology or sociology may also be required. CLEP and AP

credits will not generally substitute for required courses. Students who take courses for credit are used for computing the GPA with such credits will be required to take courses beyond those on a professional program applications. Students should consult with the pre-professional advisor prior to repeating courses.

### Extracurricular Activities

Experiences outside of the classroom can enhance a student's chances of gaining admission to a professional program. Involvement in such activity can help develop a student's organizational and time management skills, help develop his or her leadership skills, and give the student a broader perspective. UAFS offers a wide range of student organizations from which to choose. Additionally, there are a number of internship opportunities available designed to help familiarize the student with their chosen career path.

### Advising

UAFS has a strong commitment to student advising. The Pre-Medical Advisory Committee, which consists of local health professionals and pre-professional faculty advisors, serves students interested in pursuing careers in healthcare. Their role is to assist students in making informed decisions in their pre-health planning, secure relevant, impactful experiences, avoid and overcome obstacles, and navigate the application process. Pre-professional faculty advisors are readily available to discuss each student's curriculum and career plans and to help students

- Explore their decision to pursue a career in the health professions.
- Prepare academically and non-academically to become a competitive applicant.
- Understand how to secure medically-related experiences, volunteer opportunities, and research.
- Improve their overall competitiveness and health profession program application.
- Decide the best time to take the MCAT and to apply to health professions schools.
- Successfully navigate the application process.
- Learn about the different health professions – i.e. medicine, dentistry, nursing, pharmacy, physical therapy, veterinary medicine, and a range of other health careers.
- Prepare for the pursuit of MD-PhD programs.

Students are strongly encouraged to join the Pre-Health Professions Association (Alpha Epsilon Delta) to keep current with changes in the admissions landscape and to better avail themselves of opportunities to enhance their portfolios.

### Alpha Epsilon Delta

Alpha Epsilon Delta (AED) is an international honor society for Health pre-professional students and the largest such organization in the United States. It is also the world's largest honor society exclusively serving pre-medical education, with a membership exceeding 124,000 in 174 chapters. At UAFS, AED is involved in many activities and serves as a portal for members to receive guidance and assistance through the professional preparation process. Among these activities are medically-related community service events, mentoring underclassmen students, tutoring for premedical classes, and a lecture series each semester that brings prominent names in the medical profession to speak to undergraduates.

### Other Information

## Applied Statistics

### APPLIED STATISTICS MINOR

MINOR CODE: A030

The minor in applied statistics requires 18 hours of coursework.

#### REQUIRED NINE HOURS:

STAT	2503	Probability and Statistics I
STAT	2603	Probability and Statistics II
STAT	3703	Statistical Computation

#### SELECT NINE HOURS:

STAT	4103	Applied Regression Analysis
STAT	4203	Nonparametric Statistics
STAT	4303	Sampling Methodology
STAT	4403	Time Series Analysis
STAT	485V	Statistics Independent Study
STAT	495V	Internship in Statistics

## Biology

### BACHELOR OF SCIENCE (BS) DEGREE

MAJOR CODE: 3006

#### FRESHMAN YEAR FALL SEMESTER - 16 HOURS

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

#### FRESHMAN YEAR SPRING SEMESTER - 14 HOURS

HOURS	NOTES
1 BIOL 2011	General Biology Lab 2 & 6
3 BIOL 2013	Introduction to Organismal Biology 2 & 6
4 CHEM 1413 1411	College Chemistry II College Chemistry II Lab 2 & 6
3 SPCH 1203	Introduction to Speech Communication
3	English Composition requirement 1

#### SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS	NOTES
4 CHEM 2703 2701	Organic Chemistry I Organic Chemistry I Lab 2 & 6
4	Biology requirement 2, 6 & 7
4	Physics Sequence 2, 3 & 6
3	Fine Arts/Humanities/Social Sciences requirement 1

**SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS**

HOURS				NOTES
4	CHEM	2713 2711	Organic Chemistry II Organic Chemistry II Lab	2 & 6
4	Biology requirement			2, 6 & 7
4	Physics Sequence			2, 3 & 6
3	Fine Arts/Humanities/Social Sciences requirement			1

**JUNIOR YEAR FALL SEMESTER - 14 HOURS**

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

**JUNIOR YEAR SPRING SEMESTER - 16 HOURS**

HOURS				NOTES
3	BIOL	4403	Evolutionary Biology	2 & 6
3	HIST	3053	History of Modern Science	6
1	FIN	1521	Personal Finance Applications	9
3	Natural Science elective			2, 4 & 6
3	History/Government requirement			1
3	Additional degree requirement			5

**SENIOR YEAR FALL SEMESTER - 15 HOURS**

HOURS				NOTES
4	Natural Science elective			2, 4 & 6
3	Natural Science elective			2, 4 & 6
4	Physiology requirement or BIOL 4803/4801 Cell and Molecular Biology/Lab			2, 6 & 8
4	Additional degree requirement			5

**SENIOR YEAR SPRING SEMESTER - 15 HOURS**

HOURS				NOTES

# Biology with Life Science Teacher Licensure 7 - 12

BACHELOR OF SCIENCE (BS) DEGREE  
MAJOR CODE: 3565

## FRESHMAN YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
3	BIOL	2003	Introduction to Cell Biology	5
4	CHEM	1403 1401	College Chemistry I College Chemistry I Lab	5
3	POLS	2753	American National Government	
3	English Composition requirement			1 & 3
3	Fine Arts/Humanities/Social Sciences requirement			1

## FRESHMAN YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
1	BIOL	2011	General Biology Lab	2 & 5
3	BIOL	2013	Introduction to Organismal Biology	2 & 5
4	CHEM	1413 1411	College Chemistry II College Chemistry II Lab	5
1	FIN	1521	Personal Finance Applications	7
3	STAT	2503	Probability and Statistics I	3 & 5
3	English Composition requirement			1 & 3

## SOPHOMORE YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	BIOL	2203 2201	Human Anatomy Human Anatomy Lab	5
4	CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Lab	2 & 5
2	EDUC	2752	Introduction to Education	3
4	Biology requirement			2, 5 & 6

## SOPHOMORE YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
4	BIOL	2213 2211	Human Physiology Human Physiology Lab	2 & 5
4	BIOL	3803 3801	Genetics Genetics Lab	2 & 5
2	EDUC	3002	Introduction to Educational Technology	
3	SPCH	1203	Introduction to Speechi-14.498 re 106.32 312.1012235gy	

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7. Prior to graduation, students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 (or approved substitution) with a grade of C or better, or a score of 70% or more on a challenge exam for FIN 1521.
8. Elective, one hour.

Students must earn a C or higher in all courses on the degree plan. Students must maintain a 2.75 cumulative GPA or better. GPA is tracked throughout the program and verified for admission into internship.

## Chemistry

### BACHELOR OF SCIENCE (BS) DEGREE

MAJOR CODE: 3011

CONC. CODE: C031

#### FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	CHEM	1403	College Chemistry I	
		1401	College Chemistry I Lab	
4	MATH	2804	Calculus I	
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

#### FRESHMAN YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
3	BIOL	2003	Introduction to Cell Biology	2
4	CHEM	1413	College Chemistry II	2
		1411	College Chemistry II Lab	
4	MATH	2854	Calculus II	2
3	English Composition requirement			
3	Fine Arts/Humanities/Social Sciences requirement			1

#### SOPHOMORE YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES

hours in-residence requirement will be waived. Students must fulfill all other graduation requirements and complete a graduation application with the STEM advising coordinator before leaving UAFA to begin professional studies. Contact the registrar at [records@uafs.edu](mailto:records@uafs.edu) for more information.

## Chemistry with Concentration in Biochemistry

BACHELOR OF SCIENCE (BS) DEGREE

MAJOR CODE: 3011

CONC. CODE: C030

### FRESHMAN YEAR FALL SEMESTER - 14 HOURS

HOURS				NOTES
4	MATH	2804	Calculus I	
4	CHEM	1403 1401	College Chemistry I College Chemistry I Lab	
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

### FRESHMAN YEAR SPRING SEMESTER - 17 HOURS

HOURS				NOTES
3	BIOL	2003	Introduction to Cell Biology	2
4	CHEM	1413 1411	College Chemistry II College Chemistry II Lab	2
4	MATH	2854	Calculus II	2
3	English Composition requirement			1
3	Fine Arts/Humanities/Social Sciences requirement			1

### SOPHOMORE YEAR FALL SEMESTER - 15 HOURS

HOURS				NOTES
4	CHEM	2703 2701	Organic Chemistry I Organic Chemistry I Lab	2
4	PHYS or PHYS	2803 2811 2903 2911	College Physics I College Physics I Lab University Physics I University Physics I Lab	2 & 4
4	World Language requirement			6
3	Fine Arts/Humanities/Social Sciences requirement			1

### SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS

HOURS				NOTES
4	CHEM	2713 2711	Organic Chemistry II Organic Chemistry II Lab	2
4	PHYS or PHYS	2823/ 2831 2923/ 2931	College Physics II College Physics II Lab University Physics II University Physics II La	2 & 4
4	Additional degree requirement			3
3	Additional degree requirement			3



Pre-professional students in chemistry with a concentration in biochemistry who complete the above curriculum through their junior year and the 35-hour general education core requirements may receive a bachelor of science degree in chemistry with a concentration in biochemistry from UAFS after successfully completing the first year of work in an accredited school of medicine, pharmacy, or veterinary medicine. The last 30 hours in-residence requirement will be waived. Students must fulfill all other graduation requirements and complete a graduation application with the STEM advising coordinator before leaving UAFS to begin professional studies. Contact the registrar at [recordscomplete a graduation](#)





SOPHOMORE YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
3	CS	2033	Web Systems	2
3	CS	2043	Database Systems II	2
3	STAT MATH	2503 2854	Probability and Statistics I or Calculus II	5
4	Lab Science requirement			1
3				

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX





HOURS				NOTES
3	MATH	3813	Mathematics Pedagogy for Spatial Relations (odd year) or	2
	MATH	3823	Mathematics Pedagogy for Upper Secondary Mathematics (even year)	
3	MATH	4303	Real Analysis	2
4	PHYS	2903	University Physics I	
		2911	University Physics I Lab	
1	Additional degree requirement			5

#### JUNIOR YEAR SPRING SEMESTER - 16 HOURS

HOURS				NOTES
2	EDUC	4222	Assessment	4
3	MATH	3833	Math Pedagogy for Data Analysis (odd year) or Fine Arts/Humanities/Social Sciences requirement (even year)	1 or 2
1	MATH	3901	Mathematics Seminar	2
3	MATH	4403	Abstract Algebra	2
4	PHYS	2923	University Physics II	
		2931	University Physics II Lab	
3	Fine Arts/Humanities/Social Sciences requirement			1

#### SENIOR YEAR FALL SEMESTER - 16 HOURS

HOURS				NOTES
2	EDUC	3612	Classroom and Behavioral Management	4
1	EDUC	4211	Practicum II	4
3	HIST MATH	4203	History of Mathematics	2
3	MATH	3813	Mathematics Pedagogy for Spatial Relations (odd year) or	2
	MATH	3823	Mathematics Pedagogy for Upper Secondary Mathematics (even year)	
2	MATH	4992	Senior Project	2
2	SPED	3022	Survey of Diverse Populations	4
3	Fine Arts/Humanities/Social Sciences requirement			1

#### SENIOR YEAR SPRING SEMESTER - 12 HOURS

HOURS				NOTES
2	EDUC	4802	Seminar in Education	4
10	EDUC	490A	Internship	4

120 Total Hours

At least 40 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—HIST 2753 or 2763 is required and select one additional course.
2. These courses are used to determine major courses in residency, see Graduation Requirements section of this catalog.
3. Requirements for Admission in Educator Preparation Program (EPP). Must be completed with required grades for admission requirements. Consult with faculty advisor

regarding School of Education admission requirements and for courses taken after admission to program.

4. Must be admitted to the School of Education Educator Preparation Program.
5. Additional Degree Requirements, one hour. Consult with faculty advisor.
6. Prior to graduation, students must demonstrate competency in financial literacy by satisfactory completion of FIN 1521 (or approved substitution) with a grade of C or better, or a score of 70% or more on a challenge exam for FIN 1521.

Students must earn a C or higher in all courses on the degree plan. Students must maintain a 2.75 cumulative GPA or better. GPA is tracked throughout the program and verified for admission into internship.

## Physics

PHYSICS MINOR  
MINOR CODE: A026





HOURS		NOTES
3	Social Sciences requirement	1

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HOURS		NOTES
3	stration requirement 1	2 & 5
3	stration requirement 2	2 & 5

**SOPHOMORE YEAR SPRING SEMESTER - 15 HOURS**

HOURS		NOTES
3	2013 Educational Technology and Digital Literacy	2
3	s/Humanities/Social Sciences requirement	1
3	stration requirement 1	2 & 5
3	stration requirement 1	2 & 5
3	stration requirement 2	2 & 5
Add to the Educator Preparation Program (EPP) is required prior to start of the junior year		

**JUNIOR YEAR FALL SEMESTER - 17 HOURS**

HOURS		NOTES
3	3013 Human Development and Learning	2 & 4
2	3102 Foundations of Clinical Practice	2 & 4
3	3203 Assessment	2 & 4
3	3563 Middle School Concepts	2 & 4
3	3503 Literature and Literacy	2 & 4
3	stration requirement 2	2 & 5

**JUNIOR YEAR SPRING SEMESTER - 16 HOURS**

HOURS		NOTES

Educator Preparation Program or hold an initial or standard teaching license. Students who meet these criteria may be recommended to the Arkansas Department of Education upon completion of the requirements below.

### COURSE REQUIREMENTS

#### REQUIRED 12 HOURS OF CORE COURSES

HOURS		
3	ENGL 4313 FORL	Second and Foreign Language Teaching Methods
3	ENGL 4323 FORL	Second Language Acquisition
3	ENGL 4333 FORL	Second Language Assessment
3	ENGL 4353 FORL	Teaching People of Other Cultures

#### SELECT THREE HOURS:

ENGL FORL	130V	Language and Culture
ENGL	3663	English Grammar
PORT	1413	Portuguese for Spanish Speakers
FREN	2313	Intermediate French II
GERM	2313	Intermediate German II
SPAN	2313	Intermediate Spanish II
SPAN	2323	Intermediate Spanish II for Heritage Speakers
Any upper-level World Language course		

15 Total Hours

All courses must be completed with a grade of C or better, and a cumulative and program GPA of 2.75.

#### CHILD DEVELOPMENT ASSOCIATE COURSEWORK

This program is designed to prepare individuals for the preschool or infant/toddler CDA credentialing assessment, which is awarded by the Council for Professional Recognition. Those who complete the coursework receive a continuing education certificate and have then met the educational component of the CDA national credentialing process. Those who complete

ACCT	Accounting	page 150
AERO	Air Force ROTC	page 151
AHIS	Art History	page 152
ANTH	Anthropology	page 153
ART	Art	page 154
ATDI	Automotive and Diesel	page 155
AUTO	Automotive Technology	page 156
BIOL	Biology	page 156
BSA/T	Animation Technology	page 161
CGT	ComputerGraphics Technology	page 162
CHED	Coaching Education	page 164
CHEM	Chemistry	page 165
CJ	Criminal Justice	page 167

PageB219	NAME	Nursing Assistant
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PageB220	M
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PageB223	N
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PageB225	N
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PageB228
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PageB228
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PageB229
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PageB232
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PageB238	S
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PageB240	S
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TABLE OF CONTENTS

COURSE PREFIX

INDEX

## Course Symbols

UAFS courses are identified by a four-digit number. The first digit indicates the course level; "0" indicates courses which do not apply toward graduation, "1" indicates first-year or freshman-level courses, "2" indicates second-year or sophomore-level courses, "3" indicates third-year or junior-level courses, and "4" indicates fourth-year or senior-level courses. The second and third digits indicate course sequencing. The final digit indicates the number of semester hours of credit: 1 = 1 hour, 2 = 2 hours, etc. For courses requiring 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
- Clin — Clinical
- Int/Prac — Internship/Practicum
- Lab — Laboratory
- Lec — Lecture
- Part — Participation
- Stu — Studio
- Ind Stu — Independent Study

## The Arkansas Course Transfer Systems (ACTS) Numbering System

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 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 3 CR (3 LEC)  
PRINCIPLES OF MANAGERIAL ACCOUNTING

Prerequisites: ACCT 2803 Principles of Financial Accounting and MATH 1403 College Algebra or higher MATH course

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ACCT 3813 3 CR (3 LEC)  
COST MANAGEMENT  
Prerequisites: ACCT 2813 Principles of Managerial Accounting, MATH 2403 Survey of Calculus or higher math,

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX





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of design and art movements that have affected graphic design  
from the invention of writing to the present.

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**AHIS 3903** **3 CR (3 LEC)**  
**SPECIAL TOPICS IN THE HISTORY OF ART**

Prerequisites: six hours of art history coursework and consent of instructor

Provides an opportunity for individual students or groups of students to pursue in-depth research on a specific topic under the direction of an art historian. May be repeated for a total of nine hours when topics differ.

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**AHIS 4003** **3 CR (3 LEC)**  
**ART IN PARIS**

Prerequisites: AHIS 2863 Art History Survey I or AHIS 2873 Art History Survey II, and consent of instructor

An in-depth exploration of the artistic environment of the  
9 0 0 9 81 713.4751 Tm 3.503 -13-6 xp0 1 Tf ( EMC ET BT 9 0 0 9 250.983 590.0941 INTRODUCTION TO.13CHAEOLOGY Td (SPEC

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that achieve meaningful form and content relative to the objectives of each assignment. Includes representational and abstract imagery.

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ART 3323 3 CR (2 LEC, 4 STU)  
ADVANCED PAINTING

Prerequisite: ART 2223 Introduction to Painting or consent of department head

Concentration on materials, methods, subjects, and content of choice. Form, content and subject matter are open to the student's major course of study or interest.

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ART 3623 3 CR (2 LEC, 4 STU)

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ATDI 1434 4 CR (2 LEC, 4 LAB) ELECTRICAL SYSTEMS I

Prerequisite or corequisite: ATDI 1234 Theory and Maintenance

Introduction and practical application to electrical systems. Students will service batteries, cranking motors, generators, regulators. Students learn trouble shooting techniques using wiring diagrams and schematics.

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AUTO 2484 4 CR (2 LEC, 4 LAB) ENGINE PERFORMANCE II

Prerequisite: AUTO 1484 Engine Performance I

Study the advanced functioning, servicing and testing of atmospheric-control devices, including electronic fuel delivery systems, evaporative emissions systems, and controlled-

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ATDI 1584 4 CR (2 LEC, 4 LAB) HEATING AND AIR CONDITIONING SYSTEMS I

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.

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ATDI 2434 4 CR (2 LEC, 4 LAB) ELECTRICAL SYSTEMS II

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.

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## AUTO Automotive Technology

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AUTO 1284 4 CR (2 LEC, 4 LAB) AUTOMOTIVE ENGINES

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.

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AUTO 1384 4 CR (2 LEC, 4 LAB) INTRODUCTION TO MANUAL TRANSMISSIONS AND DRIVE TRAINS

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.

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AUTO 1484 4 CR (2 LEC, 4 LAB) ENGINE PERFORMANCE I

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.

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AUTO 1534 4 CR (2 LEC, 4 LAB) AUTOMATIC TRANSMISSIONS

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.

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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 4284** 4 CR (3 LEC, 3 LAB)  
**FRESHWATER ECOLOGY**

Prerequisites: junior standing and one of the following: BIOL 2203/2201 Human Anatomy/Laboratory, BIOL 2303/2301 General Botany/Laboratory, BIOL 2503/2501 General Microbiology/Laboratory, or BIOL 2703/2701 General Zoology/Laboratory  
The biological, chemical, and physical characteristics of freshwater habitats.

**BIOL 420V** 1-4 CR (VARIABLE)  
**SPECIAL TOPICS IN BIOLOGY**

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 12 hours.

**BIOL 4403** 3 CR (3 LEC)  
**EVOLUTIONARY BIOLOGY**

Prerequisite: BIOL 3803/3801 Genetics/Laboratory  
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 4453** 3 CR (3 LEC)  
**HUMAN EVOLUTIONARY GENETICS**

Prerequisite: BIOL 3803 Genetics  
Prerequisite or corequisite: BIOL 4403 Evolutionary Biology  
A survey of human genomics, genetics, and phylogenetics from the major events in human evolution from a population genetics perspective, and the evolution of human genetic diseases.

**BIOL 4504** 4 CR (3 LEC, 3 LAB)  
**ICHTHYOLOGY**

Prerequisite: BIOL 2703/2701 General Zoology/Laboratory or consent of 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** 4 CR (3 LEC, 3 LAB)  
**GENERAL PHYSIOLOGY**

Prerequisites: BIOL 3803/3801 Genetics/Laboratory and CHEM 2703/2701 Organic Chemistry I/Laboratory  
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** 1-3 CR (INT/PRAC)  
**INTERNSHIP IN BIOLOGY**

Prerequisites: junior standing and consent of instructor  
Offers experience in student's major field. Student is supervised by a science faculty member and liaison from the field experience site. Emphasizes applications of science knowledge and skills and career development strategies and techniques. May be repeated for a total of three hours.

**BIOL 4704** 4 CR (3 LEC, 3 LAB)  
**BIOINFORMATICS**

Prerequisite: BIOL 3803 Genetics  
A survey of basic and emerging techniques for computational analysis of biologically meaningful data (e.g., DNA sequence data, SNPs, haplotypes, pathogens, etc.).

**BIOL 4754** 4 CR (3 LEC, 3 LAB)  
**MAMMALOLOGY**

Prerequisites: BIOL 2703/2701 General Zoology/Laboratory  
The adaptations, biodiversity, anatomy, behavior, ecology, zoogeography, and conservation of mammals are studied.

**BIOL 4801** 1 CR (3 LAB)  
**CELL AND MOLECULAR BIOLOGY LABORATORY**

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** 3 CR (3 LEC)  
**CELL AND MOLECULAR BIOLOGY**

Prerequisite: BIOL 3803/3801 Genetics/Laboratory and CHEM 2703/2701 Organic Chemistry I/Laboratory  
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 4833** 3 CR (3 LEC)  
**BIOLOGY OF CANCER**

Prerequisite: BIOL 3803 Genetics  
An examination of the history of cancer study, and the genetic, molecular, and cellular processes involved in cancer biology.

**BIOL 4854** 4 CR (3 LEC, 3 LAB)  
**ORNITHOLOGY**

Prerequisite: 12 hours of biology coursework 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 Arkansas. Laboratory will primarily entail field work.

**BIOL 4904** 4 CR (3 LEC, 3 LAB)  
**HISTOLOGY**

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.





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**BSAT 3893** 3 CR (2 LEC, 2 LAB)  
**COMPUTER COLOR APPLICATIONS**

Prerequisite: junior standing or CGT 2684 Digital Design Level II or CGT 2834 Machine Drawing and Design or CGT 2654 Architectural CAD Applications

Knowledge and understanding of the systems of computer color application as it applies to digital drawings and renderings.

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**BSAT 3993** 3 CR (2 LEC, 2 LAB)  
**APPLYING CAD TECHNOLOGIES**

Prerequisite: junior standing or CGT 2684 Digital Design Level II or CGT 2834 Machine Drawing and Design or CGT 2654 Architectural CAD Applications

Basics of CAD training techniques includes software and equipment especially beneficial to the instruction of CAD.

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**BSAT 4003** 3 CR (2 LEC, 2 LAB)  
**ENGINEERING AND ARCHITECTURE APPLICATIONS**

Prerequisite: junior standing or CGT 2684 Digital Design Level II or CGT 2834 Machine Drawing and Design or CGT 2654 Architectural CAD Applications

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.

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**BSAT 4013** 3 CR (2 LEC, 2 LAB)  
**SCIENCE AND MEDICAL APPLICATIONS**

Prerequisite: senior standing in BSAT program or consent of department head

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.

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**BSAT 4023** 3 CR (2 LEC, 2 LAB)  
**MANUFACTURING AND ROBOTICS APPLICATIONS**

Prerequisite: junior standing in BSAT program or consent of department head

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.

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**BSAT 490V** 2-4 CR (VARIABLE)  
**ADVANCED SPECIAL PROJECTS**

Prerequisite: senior standing in BSAT program or consent of department head

Topics and current issues requiring the integration of functional areas in animation will be addressed. A learning contract must be prepared and agreed upon by the student, the faculty advisor, and the department head. May be repeated for a total of eight hours.

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**BSAT 4044** 4 CR (2 LEC, 4 LAB)  
**SENIOR CAPSTONE PROJECT**

Prerequisite: senior standing in BSAT program or consent of department head

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.

## CGT Computer Graphic Technology

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**CGT 1001** 1 CR (2 LAB)  
**CAD CONCEPTS AND APPLICATIONS**

Introduction to the field of computer graphic technology, visualization skills, expectant professional behaviors, basic electronic portfolio creation, and elementary computer skills.

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**CGT 1004** 4 CR (2 LEC, 4 LAB)  
**INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS**

Basic knowledge of geographic information systems (GIS) to include GIS applications, fundamentals of GIS capabilities, electronic cartography, database development, and management perspectives for GIS.

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**CGT 1104** 4 CR (2 LEC, 4 LAB)  
**GPS MAPPING FUNDAMENTALS**

Fundamental concepts of global positioning systems (GPS) mapping equipment theory. The collected data will be imported into a GIS based software package.

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**CGT 1204** 4 CR (2 LEC, 4 LAB)  
**CIVIL DRAFTING**

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.

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**CGT 1234** 4 CR (2 LEC, 4 LAB)  
**ENGINEERING GRAPHICS I**

Drawing fundamentals, including orthographic projection, geometric construction, lettering, dimensioning, sectioning, auxiliaries, and sketching. Course combines hand-drafting and an introduction to CAD software.

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**CGT 1284** 4 CR (2 LEC, 4 LAB)  
**ENGINEERING GRAPHICS II**

Prerequisites: CGT 1234 Engineering Graphics I and CGT 2744 CAD Level I

Covers projection, representation of fasteners, electrical wiring and welding, surface development, geometric relationship of lines and planes, and architectural and pictorial drawings.

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**CGT 1302** 2 CR (1 LEC, 2 LAB)  
**GRAPHICS FOR ENGINEERS**

Introduction to industry standards for graphical representation of objects, 2D predevelopment software (such as AutoCAD) and 3D modeling software (such as SolidWorks).

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CGT 2003 3 CR (2 LEC, 2 LAB)

**GIS ANALYSIS**

Prerequisite: CGT 1004 Introduction to GIS

Prerequisite or corequisite: MATH 1403 College Algebra

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.

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CGT 2123 3 CR (2 LEC, 2 LAB)

**GEODATABASE DESIGN**

Prerequisites: CGT 1104 GPS Mapping Fundamentals and CGT 2003 GIS Analysis

Prerequisite or corequisite: CS 1014 Foundations of Programming I

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, work ow, and documentation of the geodatabase design.

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CGT 2223 3 CR (2 LEC, 2 LAB)

**RASTER ANALYSIS**

Prerequisite: CGT 2123 Geodatabase Design

Examines the use of remotely-sensed data in GIS analysis and presentation. Discussion focuses on the electromagnetic spectrum and its characteristics, remote sensing platforms, sources of data, and data interpretation.

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CGT 2204 4 CR (2 LEC, 4 LAB)

**LAND SURVEYING AND INFORMATION SYSTEMS**

Prerequisites: CGT 1004 Introduction to Geographic Information Systems

Prerequisite or corequisite: CGT 1104 GPS Mapping Fundamentals

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.

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CGT 2303 3 CR (1 LEC, 4 LAB)

**INTEGRATED 3D APPLICATIONS**

Prerequisite: CGT 1644 3D Visualization

An intensive application of 3D graphic software packages emphasizing competency in areas of concentration – architectural application, mechanical design, digital design, and civil applications.

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CGT 2333 3 CR (2 LEC, 2 LAB)

**FUNDAMENTALS OF TECHNICAL VISUAL COMMUNICATIONS**

the basics of videography designed for the e fundamentals of shooting video, theory, and history used to produce a short training video.

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CGT 2343 3 CR (2 LEC, 2 LAB)

**UAS REMOTE SENSING**

Prerequisite: CGT 2003 GIS Analysis or UAS 2113 UAS Maintenance, and UAS 2124 Multi-Rotor Flight Lab

Prerequisite or corequisite: UAS 2443 UAS Aerial Imaging

An in-depth discussion of applied remote sensing using UAS in agricultural and industrial applications. Basic remote sensing problems and techniques are presented.

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

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CHED 3151 1 CR (2 LAB)  
PRACTICUM OF COACHING VOLLEYBALL  
Prerequisites: CHED 2013 Care and Prevention of Athletic  
Injuries, CHED 2023 Motor Development and Learning,

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<b>CHEM 2713</b> <b>ORGANIC CHEMISTRY II</b> Prerequisite: CHEM 2703 Organic Chemistry I Focuses on the chemistry of specific functional groups such as alcohols, carbonyl, conjugated systems and aromatic compounds. Analysis methods such as IR, MS, and NMR will also be covered.	3 CR (3 LEC)	<b>CHEM 3604</b> <b>ANALYTICAL CHEMISTRY</b> Prerequisite: CHEM 1413/1411 College Chemistry II/ Laboratory The total analysis concept is introduced and developed. Its 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.	4 CR (3 LEC, 3 LAB)
<b>CHEM 3034</b> <b>DESCRIPTIVE INORGANIC CHEMISTRY</b> Prerequisites: CHEM 1413/1411 College Chemistry II/ Laboratory Focuses on descriptive inorganic chemistry, structures of small molecules, and bonding theories in inorganic compounds and complexes. Also includes a survey of bioinorganic chemistry.	4 CR (3 LEC, 3 LAB)	<b>CHEM 3991</b> <b>FOUNDATIONS OF CHEMISTRY RESEARCH</b> Prerequisites: completion of at least 12 hours of chemistry and consent of departmental head Practical exposure to the concepts of literature searches, experimental design, data analysis, and presentation of results as they relate to chemistry research projects. May be repeated for a total of three hours.	1 CR (3 LAB)
<b>CHEM 3202</b> <b>CHEMICAL LITERATURE AND SEMINAR</b> Prerequisite: CHEM 2713 Organic Chemistry II Uses modern chemical literature search methods to abstract information from the body of chemical literature. Students will present their findings in a variety of different methods such as written reports, oral seminars, and poster presentations.	2 CR (2 LEC)	<b>CHEM 400V</b> <b>CHEMISTRY RESEARCH</b> Prerequisite or corequisite: CHEM 3991 Foundations of Chemistry Research Covers the scientific method by giving practical exposure to hypothesis testing, experimental design, data collection and analysis as it relates to one of the fields of chemistry. Students are required to publicly present their findings. This course may be repeated for a total of six credit hours.	1-3 CR (VARIABLE)
<b>CHEM 3303</b> <b>MEDICINAL CHEMISTRY</b> Prerequisite: CHEM 2713 Organic Chemistry II Focuses on the discovery, invention, and/or design of biologically active compounds. Focuses on the metabolism, mode of action at the molecular level, and structure-activity relationship (SAR), and pharmacological activity of a wide array of current medicinal compounds.	3 CR (3 LEC)	<b>CHEM 4203</b> <b>BIOPHYSICAL CHEMISTRY</b> P	3 CR (3 LEC)
<b>CHEM 3401</b> <b>BIOCHEMISTRY I LABORATORY</b> Prerequisite or corequisite: CHEM 3403 Biochemistry I An introduction to laboratory and analysis techniques used in biochemistry.	1 CR (3 LAB)		
<b>CHEM 3403</b> <b>BIOCHEMISTRY I</b> Prerequisite: CHEM 2713 Organic Chemistry II and BIOL 2003 Introduction to Cell Biology Structure and function of important classes of biomolecules and the relationships of structure to function are explored. An introduction to enzyme kinetics, biochemical thermodynamics, and biochemical solution relationships are included.	3 CR (3 LEC)		
<b>CHEM 3421</b> <b>BIOCHEMISTRY II LABORATORY</b> Prerequisite: CHEM 3401 Biochemistry Laboratory I Prerequisite or corequisite: CHEM 3423 Biochemistry II A continuation of the study of laboratory and analysis techniques used in biochemistry.	1 CR (3 LAB)		
<b>CHEM 3423</b> <b>BIOCHEMISTRY II</b> Prerequisite: CHEM 3403 Biochemistry I Presentations of metabolic regulation, enzyme kinetics, protein biosynthesis, and application of biochemical principles to physiological processes.	3 CR (3 LEC)		

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** 1 CR (3 LAB)  
**LABORATORY METHODS II**

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 4704** 4 CR (3 LEC, 3 LAB)  
**INORGANIC CHEMISTRY**

Prerequisite or corequisite: CHEM 3604 Analytical Chemistry  
Explores group theory and symmetry, molecular structure and

**CHEM 448V** 1-3 CR (IND STU)  
**INDEPENDENT STUDY IN CHEMISTRY**

Prerequisite: chemistry major and consent of department head.  
Current advanced topics in chemistry are explored by students through faculty-guided independent study. Topics are selected based on faculty research specialization and student interest.

**CHEM 449V** 1-3 CR (INT/PRAC)  
**INTERNSHIP IN CHEMISTRY**

Prerequisite: chemistry major and consent of department head  
Students obtain practical experience by applying their knowledge of chemistry theory and laboratory skills in a professional chemistry laboratory setting. Student is supervised by a chemistry faculty member and liaison from the laboratory site. May be repeated for a total of six hours

**CHEM 4504** 4 CR (3 LEC, 3 LAB)  
**PHYSICAL CHEMISTRY I**

Prerequisites: CHEM 1413/1411 College Chemistry II/ Laboratory and PHYS 2923/2931 University Physics II/ Laboratory  
Topics include thermodynamics, chemical equilibrium, phase equilibrium, and chemistry of solutions. Offered every other year; consult with faculty advisor.

**CHEM 4514** 4 CR (3 LEC, 3 LAB)  
**PHYSICAL CHEMISTRY II**

Prerequisites: CHEM 1413/1411 College Chemistry II/ Laboratory and PHYS 2923/2931 University Physics II/ Laboratory  
Topics include quantum mechanics, atomic and molecular structure, the periodic table, chemical bonding, and kinetics. Course will be offered every other year; consult with faculty advisor.

**CHEM 4614** 4 CR (3 LEC, 3 LAB)  
**INSTRUMENTAL ANALYSIS**

Prerequisites: CHEM 3604 Analytical Chemistry  
Explores instrumental methods of chemical analysis including basic design and theory of operation for modern instrumentation. Emphasizes the practical applications and limitations of each technique. Course is offered every other year; consult with faculty advisor.

**CHEM 4703** 3 CR (3 LEC)  
**ORGANIC REACTION MECHANISMS**

Prerequisites: CHEM 2713 Organic Chemistry II and CHEM 4504 Physical Chemistry I  
Explores classical and modern methods of determining organic reaction mechanisms, examination of factors affecting the course of organic reactions, and approaches (curved arrow, molecular orbitals) to interpreting organic phenomena. Surveys carbon-based intermediates and

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.

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CJ 2402 2 CR (2 LEC)

**CRIME SCENE DOCUMENTATION**

Prerequisite: CJ 1013 Introduction to the Criminal Justice System

Provides students with a thorough understanding of the written reports and other media required to document crime scenes, maintain the chain of custody of evidence, and adhere to court room admissibility requirements. Presents the use of still photography, videography, emerging technologies and written reports used to document crime scenes.

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CJ 2403 3 CR (3 LEC)

**LEGAL ASPECTS OF LAW ENFORCEMENT**

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.

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CJ 2504

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laws and security measures, and future concerns for effective tracking and prevention.

CJ 3213 3 CR (3 LEC)

**CRIMINAL INVESTIGATIONS**

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 397V 3-6 CR (INT/PRAC)

**ACADEMIC INTERNSHIP**

Prerequisite: criminal justice major with junior standing, cumulative GPA of 2.8, consent of department head, and any additional criteria as specified by the internship

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. Required writing assignments.

CJ 3363 3 CR (3 LEC)

**VIOLENT OFFENDERS**

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 3983 3 CR (3 LEC)

**INTRODUCTION TO RESEARCH METHODS**

Prerequisite: criminal justice major with junior standing, ENGL 1213 Composition II or ENGL 1233 Honors Composition, and STAT 2503 Probability and Statistics I  
Examines methods and techniques of research in the behavioral sciences, historical development of psychological and social research, and techniques and problems. Requires writing research proposal.

CJ 3413 3 CR (3 LEC)

**PSYCHOLOGY AND CRIME**

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 4113 3 CR (3 LEC)

**PROFESSIONALISM AND ETHICS IN CRIMINAL JUSTICE**

Prerequisite: criminal justice major with senior standing  
Examines theories and practices in areas of legality, morality, values, professional conduct, and ethics pertaining to criminal justice. Topics include police corruption, brutality, and methods of dealing with such practices.

CJ 390V 1-6 CR (VARIABLE)

**CRIMINAL JUSTICE: SPECIAL TOPICS**

Prerequisite: criminal justice major with junior standing and CJ 1253 Criminology, or consent of department head

Examines new and emerging topics in the criminal justice field 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 nine hours.

CJ 4833 3 CR (3 LEC)

**ADMINISTRATIVE CONCEPTS IN LAW ENFORCEMENT**

Prerequisite: CJ 2603 Courts and Criminal Procedure  
Principles and practices of administrative concepts and practices of administration.

CJ 3913 3 CR (3 LEC)

**DRUGS AND CRIME**

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 3 CR (3 LEC)

**VICTIMOLOGY**

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.

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

models, topologies, transmission media, network devices, Ethernet technologies, IP addressing, and subnets.

**CS 1053** 3 CR (3 LEC)  
**COMPUTER HARDWARE**

Prerequisite: MATH 1403 College Algebra or higher math, or exemption by placement

Introduces the physical components, component concepts, interaction of components, and how components respond to instructions by software. Components examined include power supplies, motherboards, processors, memory, storage devices, input/output devices, computer video devices, network devices and basic computer maintenance and troubleshooting.

**CS 1063** 3 CR (3 LEC)  
**FOUNDATIONS OF OPERATING SYSTEMS II**

Prerequisite: CS 1044 Foundations of Networking  
Introduction to the Linux operating system and services. User administration, server installation and configuration, task automation using shell scripting, file management, and shell utilities will be addressed.

**CS 1093** 3 CR (3 LEC)  
**COMPUTER AND INFORMATION SCIENCE CONCEPTS**

An overview to computer and information science disciplines introducing the student to logic concepts, computational thinking and problem solving. Provides each student with the concepts used in today's digital world for business and personal applications.

**CS 1303** 3 CR (3 LEC)  
**INTRODUCTION TO DATA SCIENCE**

Prerequisite: declared certificate of proficiency in data analytics or consent of department head

Introduces the topics of data science and machine learning. Explores the topics of data modeling and visualization, data wrangling, exploratory data analysis and statistical programming. Concepts of operating systems, data structures, algorithm design, and database systems are reviewed.

**CS 1603** 3 CR (3 LEC)  
**INTRODUCTION TO ENTERPRISE COMPUTING ON SAP**

An introduction of the SAP enterprise system. Topics introduced include the concepts and effectiveness of Enterprise Resource Planning (ERP), SAP terminology and foundation concepts and the flexible implementation strategy inherent in SAP. Emphasis is placed on the roles and tools of information technology professionals in successful multi-national SAP implementations.

**CS 2003** 3 CR (3 LEC)  
**DATA STRUCTURES**

Prerequisite: CS 1024 Foundations of Programming II and MATH 2804 Calculus I or higher math

Introduces the programming concepts of data structures and the algorithms derived from them. Topics include recursion, stacks, queues, linked lists, hash tables, trees, and graphs.

**CS 2013** 3 CR (3 LEC)  
**DATABASE SYSTEMS I**

Prerequisite: CS 1014 Foundations of Programming I  
Introduction to database management systems, implementation, and theory.

**CS 2022** 2 CR (2 LEC)  
**IT SYSTEMS MANAGEMENT**

Prerequisite: CS 1014 Foundations of Programming I  
Examines techniques for IT project team members to create the shared expectations between project team members, IT management and other stakeholders that determine a project's success or failure.

**CS 2033** 3 CR (3 LEC)  
**WEB SYSTEMS**

Prerequisites: CS 1024 Foundations of Programming II and CS 2013 Database Systems I

Provides the knowledge to create web applications and the technologies used to create and deliver them. Web page authoring and design using HTML and CSS, information architecture, web servers, web standards, and server-side programming with a scripting language.

**CS 2043** 3 CR (3 LEC)  
**DATABASE SYSTEMS II**

Prerequisites: CS 1024 Foundations of Programming II and CS 2013 Database Systems I

Provides comprehensive review of database management architecture, design and implementation issues.

**CS 2603** 3 CR (3 LEC)  
**SAP SYSTEM ADMINISTRATION**

Prerequisite: CS 1603 Introduction to Enterprise Computing on SAP

Examines the fundamental techniques of SAP system administration. Topics include configuration skills used to support basic installation options, scalability, system monitoring, and performance, with a focus on design and implementation of system architecture options.

**CS 3003** 3 CR (3 LEC)  
**DISTRIBUTED SYSTEMS**

Prerequisite: CS 2003 Data Structures

Design of distributed and integrative systems, including system architectures, development tools, inter-process communication, processes and threads, synchronization, design patterns and interfaces, data exchange and security.

**CS 3013** 3 CR (3 LEC)  
**HUMAN COMPUTER INTERACTION**

Prerequisite: CS 2003 Data Structures

Examines human and computer interaction through user and task analysis, human factors, ergonomics, accessibility standards, and cognitive psychology.

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CS 3103 3 CR (3 LEC)  
ALGORITHM DESIGN

Prerequisites: CS 2003 Data Structures and MATH 1903 Introductory Discrete Mathematics

Examines the theoretical foundations and practical applications of algorithm analysis and design. Builds upon the data abstractions introduced in CS 2003, while introducing various algorithm strategies and techniques.

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CS 3113 3 CR (3 LEC)  
ARTIFICIAL INTELLIGENCE

Prerequisite: CS 2003 Data Structures

Overview of the evolution of artificial intelligence techniques and applications. Introduces different paradigms for problem solving and provides an in-depth study of one or more key areas of AI such as expert systems, neural networks, robotics, logic programming, intelligent agents, machine learning, and natural language processing. Students design, develop, and implement systems utilizing techniques of artificial intelligence to reinforce the areas of study.

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CS 3123 3 CR (3 LEC)  
BUSINESS APPLICATION PROGRAMMING I

Prerequisite: CS 1024 Foundations of Programming II

Introduces programming business applications using the COBOL programming language. The student will use the concepts of programming learned earlier and implement them using COBOL.

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CS 3133 3 CR (3 LEC)  
BUSINESS APPLICATION PROGRAMMING II

Prerequisite: CS 3123 Business Application Programming I

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industry standard numbering schemes. Requires students to practice assembly language programming techniques and develop solutions with assembler programming.

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CS 3543 3 CR (3 LEC)

**SYSTEMS PROGRAMMING**

Prerequisite: CS 2003 Data Structures

Covers the concepts of system-level programming within the context of Linux/UNIX environments. Introduces fundamental programming techniques and the C language vocabulary, which includes the syntax, common library functions and preprocessor process.

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CS 4003 3 CR (3 LEC)

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CS 4523  
CYBER CRIMES  
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3 CR (3 LEC)

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Clinical instruction of topics discussed in DHYG 3103. Procedures will be completed through practice on mannequins and student partners.

**DHYG 3103** 3 CR (3 LEC)  
**PRE-CLINICAL DENTAL HYGIENE THEORY**

Prerequisite: admission to the dental hygiene program  
 Corequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, and DHYG 3412 Oral Embryology and Histology  
 eoretical 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 to the laboratory/clinical level in DHYG 3102.

Clinical application of topics discussed in DHYG 3113. Application of the principles of the dental hygiene process of care including assessment, dental hygiene diagnosis, planning, implementation and evaluation of oral health.

**DHYG 3412** 2 CR (2 LEC)  
**ORAL EMBRYOLOGY AND HISTOLOGY**

Prerequisite: admission to the dental hygiene program  
 Corequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, and DHYG 3103 Pre-Clinical Dental Hygiene eory  
 Study of oral embryology and histology, including the application of pathophysiology to speci c organ systems, extensively of the mouth. Emphasis on the identi cation and management of selected oral conditions.

**DHYG 3113** 3 CR (3 LEC)  
**CLINIC I THEORY**

Prerequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene eory, and DHYG 3412 Oral Embryology and Histology  
 Corequisites: DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

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, ultrasonic, and uoride therapy. Application of theory in DHYG 3213.

**DHYG 3443** 3 CR (3 LEC)  
**PHARMACOLOGY**

Prerequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene eory, and DHYG 3412 Oral Embryology and Histology  
 Corequisites: DHYG 3113 Clinic I eory, DHYG 3212 Periodontology I, DHYG 3213 Dental Hygiene Clinic I, and DHYG 3453 General and Oral Pathology  
 Study of the physiologic e ects of medications with an emphasis on commonly prescribed medications. e emphasizing composition, dosage, therapeutic action, use, and e ects of drugs related to clinical dentistry and dental hygiene are studied. Emergency treatment for drug hypersensitivity is included.

**DHYG 3212** 2 CR (2 LEC)  
**PERIODONTOLOGY I**

Prerequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene eory, and DHYG 3412 Oral Embryology and Histology  
 Corequisites: DHYG 3113 Clinic I eory, DHYG 3213 Dental Hygiene Clinic I, DHYG 3443 Pharmacology, and DHYG 3453 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 3453** 3 CR (3 LEC)  
**GENERAL AND ORAL PATHOLOGY**

Prerequisites: BIOL 1463/1461 Microbiology and Immunology/Laboratory, BIOL 2213/ 1 .519 -3nology/Laboratory, BIOL 2213

**DHYG 3213** 3 CR (12 LAB)  
**DENTAL HYGIENE CLINIC I**

Prerequisites: DHYG 2111 Dental Anatomy and Occlusion, DHYG 2313 Radiology, DHYG 2432 Head and Neck Anatomy, DHYG 3102 Pre-Clinical Dental Hygiene, DHYG 3103 Pre-Clinical Dental Hygiene eory, and DHYG 3412 Oral Embryology and Histology  
 Corequisites: DHYG 3113 Clinic I eory, DHYG 3212 Periodontology I, DHYG 3443 Pharmacology, and DHYG 3453 General and Oral Pathology

intraoral media equipment, dental implants, air polishing, use of uorides, and the assessment and treatment of patients with special needs.

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DHYG 4132 2 CR (2 LEC)

**CLINIC III THEORY**

Prerequisites: DHYG 4122 Clinic II eory, DHYG 4224 Dental Hygiene Clinic II, DHYG 4142 Advanced Dental Hygiene eory for Special Needs Patients, DHYG 4311 Periodontology II, DHYG 4372 Dental Nutrition, DHYG 4463 Dental Materials, and DHYG 4512 Local Anesthesia and Nitrous Oxide

Corequisites: DHYG 4234 Dental Hygiene Clinic III, DHYG 4522 Ethics and Practice Management, DHYG 4533 Community Dentistry and Dental Health Education, and DHYG 4542 Public Health Dentistry

Advanced clinical theory of patient care and management. Emphasis on treating patients with special needs and the periodontal patient. Presentation of case studies, including nutritional counseling, of the periodontal and special-needs patient.

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DHYG 4142 2 CR (2 LEC)

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physical, social, and emotional development in connection with ECD 1003 and ECD 1103.

**ECED 1411** 1 CR (3 LAB)  
**EARLY CHILDHOOD FIELD EXPERIENCE II**

Corequisite: ECTC 2703 Preschool Curriculum (B - Pre-K). Observing, recording, and interpreting human growth and development within the early childhood environment for children ages three to five with emphasis on observation of physical, cognitive, language, social, and emotional development in relationship to early childhood curriculum. Addresses requirements as mandated by state early childhood regulations

**ECED 3063** 3 CR (3 LEC)  
**METHODS OF TEACHING MATHEMATICS IN THE EARLY CHILDHOOD SETTING**

Prerequisite: MATH 1403 College Algebra or MATH College Algebra Extended, and MATH 2243 Geometry and Measurements II  
 Developmentally appropriate teaching strategies and support systems needed for introducing and developing the mathematical mind of the Pre-K - 4 students.

**ECED 2093** 3 CR (3 LEC)  
**HEALTH, SAFETY, AND NUTRITION FOR YOUNG LEARNERS**

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 3113** 3 CR (3 LEC)  
**ECED 3113**

**ECED 3003** 3 CR (3 LEC)  
**SCIENCE IN THE EARLY CHILDHOOD CLASSROOM**

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 3043** 3 CR (3 LEC)  
**DEVELOPMENTALLY APPROPRIATE PRACTICE**

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** 3 CR (3 LEC)  
**CHILDREN AND FAMILIES IN A DIVERSE SOCIETY**

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.

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**ECED 3183** **3 CR (3 LEC)**  
**LANGUAGE AND LITERACY I (3-5 YEARS)**  
 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 I.

Prerequisite or corequisite: ECED 3153 Creative Arts in Early Childhood.  
 Corequisites: ECED 3213 Integrated Curriculum II (6-9 Years), ECED 3222 Practicum II, and ECED 3283 Language and Literacy II (6-9 Years)  
 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-driven decisions. Connected to the ECED 3222 Practicum II.

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**ECED 3193** **3 CR (3 LEC)** **ECED 3283**  
**CHILDREN'S LITERATURE**

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 Years), ECED 3122 Practicum I, ECED 3173 Guiding Children, and ECED 3183 Language and Literacy I (3-5 Years)  
 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.

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**ECED 3213** **3 CR (3 LEC)**  
**INTEGRATED CURRICULUM II (6-9 YEARS)**

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.

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**ECED 3222** **2 CR (4 LAB)**  
**PRACTICUM II**

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.

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**ECED 3263** **3 CR (3 LEC)**  
**EARLY CHILDHOOD ASSESSMENT**

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 Years), ECED 3122 Practicum I, ECED 3173 Guiding Children, ECED 3183 Language and Literacy I (3-5 Years), and ECED 3193 Children's Literature

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** 3 CR (3 LEC)

**MICROECONOMIC ANALYSIS**

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** 3 CR (3 LEC)

**MACROECONOMIC ANALYSIS**

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** 3 CR (3 LEC)

**LABOR ECONOMICS**

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** 3 CR (3 LEC)

**INTERNATIONAL ECONOMICS**

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** 3 CR (3 LEC)

**NATURAL RESOURCE ECONOMICS**

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** 3 CR (3 LEC)

**PUBLIC EXPENDITURES AND TAXATION**

Prerequisite: ECON 2813 Principles of Microeconomics

Deals with public revenues, the theory of taxation, institutions, and problems of the revenue system as a whole, and studies the effects of the taxing, spending, lending, and borrowing by government units upon the national income and employment.

**ECON 4333** 3 CR (3 LEC)

**URBAN ECONOMICS**

Prerequisite: ECON 2803 Principles of Macroeconomics, ECON 2813 Principles of Microeconomics and admission to the College of Business, or consent instructor

Introduces space into economic models and studies some of the major economic and social problems facing large American cities and their surrounding metropolitan regions such as poverty, crime, housing, and transportation. The spatial aspects of local government policy will also be studied.

**ECON 4343** 3 CR (3 LEC)

**MANAGERIAL ECONOMICS**

Prerequisites: ECON 2813 Principles of Microeconomics, MGMT 2963 Business Statistics or STAT 2503 Probability and Statistics I, 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** 1-3 CR (IND STU)

**INDEPENDENT STUDY IN ECONOMICS**

Prerequisites: admission to the College of Business and consent of instructor and department head

Prerequisite or corequisite; may vary depending on topic  
Individual problems or topics in economics arranged in consultation with instructor. May be repeated for a total of six hours.

**ECON 457V** 1-3 CR (VARIABLE)

**SPECIAL TOPICS IN ECONOMICS**

Prerequisite: admission to the College of Business or consent of instructor

Prerequisite or corequisite: may vary depending on topic  
Topics and current issues of critical importance to the field of economics. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.

**ECTC Early Childhood Teaching Credential**

**ECTC 2303** 3 CR (3 LEC)

(1 LEC)

writing, and reading. Addresses requirements as mandated by state early childhood regulations.

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ECTC 2403 3 CR (3 LEC)  
MATH AND SCIENCE FOR EARLY CHILDHOOD

Prerequisite: ECTC 2903 Future Perspectives in Early Childhood (for early childhood education majors) or admission into the educator preparation program (for elementary education majors)

Students will become familiar with a variety of ways to introduce children birth through pre-kindergarten, including children with special needs, to ideas and concepts related to math and science. Students will create activities; plan and practice developmentally appropriate experiences that would meet recognized standards (NAEYC, NCTM, etc.). Addresses requirements as mandated including science and math standards. Includes activities; plan

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**EDUC 3221** 1 CR (1 LEC, 4 LAB)  
**PRACTICUM I**

Prerequisite: admission to the educator preparation program  
Prerequisites or corequisites: EDUC 3013 Human Development and Learning  
Provides prospective teachers with field-based experiences. Requires seminar attendance and participation of four hours per week in a school classroom.

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**EDUC 3401** 1 CR (1 LEC)  
**INTEGRATED CREATIVE ARTS**

Prerequisite: admission to the educator preparation program  
A study of theory, research and practice for integrating art, music, and drama in educational settings.

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**EDUC 3612** 2 CR (2 LEC)  
**CLASSROOM AND BEHAVIORAL MANAGEMENT**

Prerequisite: admission to the educator preparation program  
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.

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**EDUC 400V** 1-3 CR (IND STU)  
**EDUCATION INDEPENDENT STUDY**

Prerequisite: senior standing, admission to the educator preparation program, and consent of instructor or department head  
Current advanced topics in education are explored by students through faculty-guided independent study. Topics are selected based on faculty specialization and student interest.

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**EDUC 4203** 3 CR (3 LEC)  
**SOCIAL STUDIES CURRICULUM, INSTRUCTION, AND ASSESSMENT**

Prerequisite: ELML 3102 Foundations of Clinical Practice  
Develop an awareness of the nature and purpose for social studies education in the elementary and middle school.

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**EDUC 4211** 1 CR (1 LEC, 4 LAB)  
**PRACTICUM II**

Prerequisite: admission to the educator preparation program  
Corequisites: EDUC 3612 Classroom and Behavioral Management and SPED 3022 Survey of Diverse Populations  
Provides prospective teachers field-based experiences. Requires seminar attendance and K-12 classroom attendance and participation for four hours per week.

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**EDUC 4222** 2 CR (2 LEC)  
**ASSESSMENT**

Prerequisite: admission to the educator preparation program  
Focuses on the decision-making skills required in developing authentic assessments appropriate for classroom use. e strengths and weaknesses of classroom programs (essed.TJ T\* [(and both clam)TJw)6.inclam)T,10.2 (e explorar aO)6.Cng, onsf c6.1

















# FIN Finance

FIN 1521 1 CR (1 LEC)

## PERSONAL FINANCE APPLICATIONS

Introduces students to the importance of responsible money management, both today and in the future. Specific topics include financial goal setting, budgeting, responsible use of credit, risk management, as well as savings and investing. Personal accountability in the education financing process is also addressed.

FIN 3713 3 CR (3 LEC)

## BUSINESS FINANCE

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 3 CR (3 LEC)

## INVESTMENTS

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 3 CR (3 LEC)

## FINANCIAL STATEMENT ANALYSIS

Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor

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 3 CR (3 LEC)

## MONEY, BANKING, AND FINANCIAL MARKETS

Prerequisite: FIN 3713 Business Finance and admission to the College of Business, or consent of instructor

A study of financial assets, financial 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 3 CR (3 LEC)

## INTERNATIONAL FINANCE

Prerequisites: MGMT 2963 Business Statistics or STAT 2503 Probability and Statistics I, 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 3 CR (3 LEC)

## CAPITAL BUDGETING

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 3 CR (3 LEC)

## MANAGEMENT OF FINANCIAL INSTITUTIONS

Prerequisite: FIN 3713 Business Finance 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 industry structure, firm performance, risk management, liquidity strategies, loan and deposit pricing as well as regulation and supervision.

FIN 447V 1-3 CR (IND STU)

## INDEPENDENT STUDY IN FINANCE

Prerequisites: admission to the College of Business, FIN 3713 Business Finance, and consent of the instructor and department head

Prerequisite or corequisite: may vary depending on topic. Individual problems or topics in finance arranged in consultation with instructor. May be repeated for a total of six hours.

FIN 457V 1-3 CR (VARIABLE)

## SPECIAL TOPICS IN FINANCE

Prerequisites: admission to the College of Business or consent of instructor

Prerequisite or corequisite: may vary depending on topic. Topics and current issues of critical importance to the field of finance. Specific topics and issues are announced in the schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.

FIN 4733 3 CR (3 LEC)

## PRINCIPLES OF PORTFOLIO MANAGEMENT

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 3 CR (3 LEC)

## ADVANCED FINANCIAL MANAGEMENT

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 3 CR (3 LEC)

## DERIVATIVE SECURITIES AND MARKETS

Prerequisite: FIN 3723 Investments and admission to the College of Business, or consent of instructor



TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX









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GRDS 2253 3 CR (2 LEC, 4 STU)  
WEB DESIGN I

Prerequisites: ART 1551 Admissions Portfolio or consent of instructor

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.

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GRDS 2303 3 CR (2 LEC, 4 STU)  
GRAPHIC DESIGN

Prerequisites: ART 1551 Admissions Portfolio or consent of instructor

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.

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GRDS 2343 3 CR (2 LEC, 4 STU)  
PRINT AND PUBLICATION DESIGN

Prerequisites: ART 1551 Admissions Portfolio 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.

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GRDS 2503 3 CR (2 LEC, 4 STU)  
ILLUSTRATION TECHNIQUES

Prerequisites: ART 1551 Admissions Portfolio or consent of instructor

Introduces 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.

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GRDS 299V 1-3 CR (VARIABLE)  
GRAPHIC DESIGN SPECIAL PROJECTS

Prerequisites or corequisites: advanced standing and consent of dean or instructor

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.

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GRDS 3223 3 CR (2 LEC, 4 STU)  
DIGITAL PHOTOGRAPHY

Prerequisite: ART 1123 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,

<p><b>GRDS 3403</b> 3 CR (2 LEC, 4 STU)  <b>ADVERTISING DESIGN I</b>  Prerequisites: GRDS 2103 Advanced Typography, GRDS 2253 Web Design I, GRDS 2343 Print and Publication Design, GRDS 2303 Graphic Design, and GRDS 2243 Digital Illustration, 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. e creation of thumbnails and computer comps are covered, as well as headline, subhead and copy writing. Projects involve collaboration, problem solving, and deadlines.</p>	<p><b>GRDS 4313</b> 3 CR (2 LEC, 4 STU)  <b>IDENTITY DESIGN</b>  Prerequisites: senior standing, GRDS 3323 Production Management/Prepress, GRDS 3273 Motion Design, GRDS 3403 Advertising Design I, 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 creation of thumbnails and computer comps are covered, as 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.</p>
<p><b>GRDS 3503</b> 3 CR (2 LEC, 4 STU)  <b>ADVANCED ILLUSTRATION</b>  Prerequisites: GRDS 2103 Advanced Typography, GRDS 2253 Web Design I, GRDS 2343 Print and Publication Design, GRDS 2303 Graphic Design, and GRDS 2243 Digital Illustration, or consent of instructor  Expands on the media explorations from GRDS 2243, 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.</p>	<p><b>GRDS 4403</b> 3 CR (2 LEC, 4 STU)  <b>ADVERTISING DESIGN II</b>  Prerequisites: GRDS 3403 Advertising Design I, GRDS 3273 Motion Design, GRDS 3323 Production Management/Prepress, and GRDS 3603 Packaging Design, 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.</p>
<p><b>GRDS 3603</b> 3 CR (2 LEC, 4 STU)  <b>PACKAGING DESIGN</b>  Prerequisites: GRDS 2103 Advanced Typography, GRDS 2253 Web Design I, GRDS 2343 Print and Publication Design, GRDS 2303 Graphic Design, and GRDS 2243 Digital Illustration, or consent of instructor  Introduces projects and issues involved in packaging design. e employing various design solutions to solve three-dimensional problems. e 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.</p>	<p><b>GRDS 4623</b> 3 CR (2 LEC, 4 STU)  <b>GRAPHIC DESIGN BUSINESS PRACTICES</b>  Prerequisites: senior standing, GRDS 4313 Identity 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 pricing, strategies for landing design jobs, professional relationships, fees and contracts, managing large projects, copyright, trademark, and ethical issues.</p>
<p><b>GRDS 372V</b> 3-6 CR (INT/PRAC)  <b>GRAPHIC DESIGN INTERNSHIP</b>  Prerequisites: GRDS 2103 Advanced Typography, GRDS 2253 Web Design I, GRDS 2343 Print and Publication Design, GRDS 2303 Graphic Design, and GRDS 2243 Digital Illustration, 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. e length of the internship will be either 120 or 240 clock hours and is typically completed during a fall, spring, or summer semester.</p>	<p><b>GRDS 4933</b> 4 CR (2 LEC, 4 STU)  <b>GRAPHIC DESIGN SENIOR THESIS</b>  Prerequisites: senior standing, GRDS 3403 Advertising Design I, GRDS 3273 Motion Design, GRDS 3323 Production Management/ Prepress, and GRDS 3603 Packaging Design, or consent of instructor  Independent, directed study identifying an area of critical inquiry that best combines personal creativity, academic achievement, and professional ambition. e thesis begins with</p>
<p><b>GRDS 399V</b> 1-3 CR (VARIABLE)  <b>ADVANCED GRAPHIC DESIGN SPECIAL PROJECTS</b>  Prerequisites: junior or senior standing and consent of instructor and department head  An individual project in graphic design areas o ered on an arranged basis. Projects and deadlines are determined by the student and instructor. May be repeated when topics di er for a total of six hours.</p>	

HISP 3513 3 CR (3 LEC)  
**INTERPRETATION PLANNING**

Prerequisite: HISP 3503 Basic Skills in Interpretation  
 Interpretation planning for historic sites, museums, and natural resources sites.

HISP 3523 3 CR (3 LEC)  
**COMMUNICATING THROUGH EXHIBITS**

Prerequisite: HISP 3503 Basic Skills in Interpretation  
 Focuses on the development and use of traditional and multimedia exhibits for historic sites, museums, and natural resources sites.

HISP 3903 3 CR (3 LEC)  
**METHODS OF HERITAGE SITE INTERPRETATION**

Prerequisite: HISP 3503 Basic Skills in Interpretation  
 An overview of the challenges, methods, and unique aspects of interpreting historic sites. Incorporates practical methods to help the public make connections and understand meanings of historical sites.

HISP 3913 3 CR (3 LEC)  
**METHODS OF NATURAL RESOURCES INTERPRETATION**

Prerequisite: HISP 3503 Basic Skills in Interpretation  
 An overview of the challenges, methods, and unique aspects of interpreting natural resources sites. Incorporates practical methods to help the public make connections and understand science and the natural world.

HISP 4533 3 CR (3 LEC)  
**HERITAGE INTERPRETATION TRAVEL SEMINAR**

Prerequisite: HIST 4503 Introduction to Public History  
 Travel study to various historical and natural sites, focusing on analysis of the presentation of site content through exhibits, interpretive talks, and multimedia displays. Requires travel to multiple sites in the region to observe the diversity of park operations and opportunities.

HISP 4563 3 CR (3 LEC)  
**NATURAL RESOURCES INTERPRETATION TRAVEL SEMINAR**

Travel study to various historical and natural sites, focusing on analysis of the presentation of site content through exhibits, interpretive talks, and multimedia displays. Requires travel to multiple sites in the region to observe the diversity of park operations and opportunities.

HISP 4573 3 CR (3 LEC)  
**CONSERVATION OF HERITAGE RESOURCES**

Prerequisite: HIST 4503 Introduction to Public History.  
 Conservation and utilization of historical and heritage sites.

HISP 4953 3 CR (INT/PRAC)  
**RESOURCES INTERPRETATION INTERNSHIP**

Prerequisite: HISP 3503 Basic Skills in Interpretation and consent of the instructor.  
 Prerequisites or corequisites: HISP 3513 Interpretation Planning and HISP 3523 Communicating through Exhibits  
 Field experience at a resources interpretation site both historical and natural. Jointly supervised by a faculty member and by an individual in a position of authority at the site. Permission from both supervisors must be secured prior to registration. May be repeated for up to six hours.

## HIST History

HIST 1123 3 CR (3 LEC)  
**CIVILIZATIONS OF THE WORLD TO 1500**

An introduction to major civilizations of the world to 1500. (ACTS: HIST 1113)

HIST 1133 3 CR (3 LEC)  
**CIVILIZATIONS OF THE WORLD SINCE 1500**

An introduction to major civilizations of the world since 1500. (ACTS: HIST 1123)

HIST 1133H 3 CR (3 LEC)  
**CIVILIZATIONS OF THE WORLD SINCE 1500 (HONORS)**

Prerequisite or corequisite: HONR 1101 Introduction to Honors International Studies  
 An introduction to major civilizations of the world since 1500 with an additional emphasis on interaction between western and non-western cultures.

HIST 2753 3 CR (3 LEC)  
**UNITED STATES HISTORY I**

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 3 CR (3 LEC)  
**UNITED STATES HISTORY II**

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 3 CR (3 LEC)  
**UNITED STATES HISTORY II (HONORS)**

Prerequisite: acceptance into the Honors International Studies 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 detail of the Honors International Studies program.  
 Prerequisite: acceptance into the Honors International Studies 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 detail of the Honors International Studies program.

HIST 3113 THE ANCIENT MEDITERRANEAN WORLD Prerequisite: HIST 1123 Civilizations of the World to 1500 The study of the ancient Mediterranean cultures of Egypt, the Middle East, and Greece to the Roman conquests.	3 CR (3 LEC)	HIST 3403 COLONIAL AMERICA TO 1763 Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and HIST 2753 United States History I or HIST 2763 United States History II The study of the European colonization of North America to 1763.	3 CR (3 LEC)
HIST 3123 THE ROMAN WORLD Prerequisite: HIST 1123 Civilizations of the World to 1500 The study of the Roman world from the rise of the Republic through the fall of the Empire.	3 CR (3 LEC)	HIST 3413 AMERICAN REVOLUTION 1763-1787 The study of Colonial S	3 CR (3 LEC)
HIST 3133 THE RENAISSANCE Prerequisite: HIST 1133 Civilizations of the World since 1500 The study of European history from 1350-1550, concentrating on art, literature, music, science, political development, and the close of the Middle Ages.	3 CR (3 LEC)	Ueyoluon of n HIST 3304	
HIST 3143 THE PROTESTANT REFORMATION Prerequisite: HIST 1133 Civilizations of the World since 1500 The study of the Protestant Reformation and its impact on Europe, beginning in Germany and spreading to England, along with the responses of the Roman Catholic Church and subsequent national conflicts through the Thirty Years' War.	3 CR (3 LEC)		
HIST 3203 HISTORY OF ENGLAND TO 1714 The period from the earliest times to the end of the Stuart dynasty.	3 CR (3 LEC)		
HIST 3213 ENGLAND SINCE 1714 Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and 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 twentieth century.	3 CR (3 LEC)		
HIST 3223 TUDOR AND STUART ENGLAND Prerequisite: junior standing Survey of the Tudor and Stuart dynasties in England, looking at their impact on the history and development of the modern United Kingdom.	3 CR (3 LEC)		
HIST 3303 TWENTIETH CENTURY EUROPE European history in the twentieth century.	3 CR (3 LEC)		
HIST 3313 WORLD WAR I Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and HIST 1133 Civilizations of the World since 1500 A study of the causes, conduct and impact of the First World War.	3 CR (3 LEC)		
HIST 3323 WORLD WAR II Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and HIST 1133 Civilizations of the World since 1500 A study of the causes, conduct and impact of the Second World War.	3 CR (3 LEC)		

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HIST 3603 3 CR (3 LEC)  
PRE-COLONIAL AFRICA TO 1900  
Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and 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.

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HIST 3613 3 CR (3 LEC)  
COLONIAL AFRICA  
Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and 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.

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HIST 3623 3 CR (3 LEC)  
CONTEMPORARY AFRICA  
Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, and HIST 1123 Civilizations of the World to 1500 or HIST 1133 Civilizations of the World since 1500

HIST 3623

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**Prerequisites:** history standing or 15 experience of U.S. history since 1880. An examination of women's expected and changing roles in the domestic setting, the effect of industrialization on women's economic activities and status, and women's involvement in political and social struggles, including but not limited to those for women's civil and personal rights.

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HIST 4303 3 CR (3 LEC)

**HISTORY OF SOUTHEAST ASIA**

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.

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HIST 4313 3 CR (3 LEC)

**MEDIEVAL MIDDLE EAST 476-1453**

Study of the Byzantine Empire, Islam, the Crusades, and the Ottoman Turks.

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HIST 4503 3 CR (3 LEC)

**INTRODUCTION TO PUBLIC HISTORY**

Prerequisites: history major in junior standing or consent of instructor

Introduces methods and practices of public history.

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HIST 4803 3 CR (3 LEC)

**SEM 8R IN UNITED STATES HISTORY**

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HLTH 1025 5 CR (5 LEC)  
PHARMACY TECHNOLOGY II

Prerequisites: HLTH 1024 Pharmacy Technology I and CHEM 1303/1301 Chemical Principles/Laboratory  
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.

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HLTH 1473 3 CR (3 LEC)  
MEDICAL TERMINOLOGY

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, and for graduates presently working in the paramedical fields who need to review or increase their vocabularies.

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HLTH 2953 3 CR (3 LEC)  
FIRST AID

A study of the care and treatment for victims of accidents or sudden illness. CPR instruction is included as a component of this course.

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HLTH 3103 3 CR (3 LEC)  
PATHOPHYSIOLOGY

Prerequisites: BIOL 2203/2201 Human Anatomy/Laboratory and BIOL 2213/2211 Human Physiology/Laboratory  
Prerequisite or corequisite (BSN only): NURS 2103 Introduction to Professional Nursing and NURS 3164 Health Assessment

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.

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HLTH 316V

# HUMN Humanities

HUMN 2563 3 CR (3 LEC)  
HUMANITIES THROUGH THE ARTS

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. (ACTS: ARTA 1003)

HUMN 2563H 3 CR (3 LEC) INTRODUCTION TO FILM THROUGH THE ARTS (HONORS)

Prerequisites: ENGL 1233 Honors Composition and acceptance into Honors International Studies program  
The honors section of Humanities through the Arts will

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

political process and its impact on the health of individuals and populations.

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ISL 4303 3 CR (3 LEC)  
TECHNOLOGICAL ADVANCEMENTS IN MEDICAL IMAGING

Prerequisite: admission into the BSIS-Leadership program  
An overview of the latest technological advancements transforming medical imaging and improving healthcare. An in-depth exploration into the performance of different imaging techniques.

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ISL 4313 3 CR (3 LEC)  
HEALTHCARE SYSTEMS

Prerequisite: admission into the BSIS-Leadership program  
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

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

images, methods of color flow, the Doppler principles, and hemodynamics.

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ISS 3213 3 CR (15 LAB)

**CLINICAL PRACTICE I**

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.

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ISS 3223 3 CR (2 LEC, 2 LAB)

**VASCULAR SONOGRAPHY I**

Prerequisite: ISS 3113 Cross-Sectional Anatomy

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.

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ISS 4303 3 CR (2 LEC, 2 LAB)

**OBSTETRICAL AND GYNECOLOGICAL SONOGRAPHY I**

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.

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ISS 4323 3 CR (24 LAB)

**CLINICAL PRACTICE II**

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.

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ISS 4403 3 CR (3 LEC)

**PATHOPHYSIOLOGY AND SPECIAL APPLICATIONS**

Prerequisites: ISS 3113 Cross-Sectional Anatomy and ISS 3212 Acoustical Physics and Instrumentation II

Corequisites: ISS 4413 Abdominal Sonography II, ISS 4433 Vascular Sonography II, and ISS 4434 Clinical Practice III

Explores the principles of human physiology and pathologic processes related to the human disease process.

Application and use of ultrasound in the imaging of superficial organs and structures such as the thyroid and parathyroid glands, breast, and scrotum will be presented.

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ISS 4413 3 CR (3 LEC)

**ABDOMINAL SONOGRAPHY II**

Prerequisite: ISS 3203 Abdominal Sonography I.

Corequisites: ISS 4403 Pathophysiology and Special Applications, 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.

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ISS 4433

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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](#)

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# MACH Machine Tool Technology

MACH 1235

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

common core standards concepts associated with problem solving, functions, and computation involving integers, fractions, decimals, and percents. Students will study the foundations of algebraic reasoning.

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**MATH 1403** **3 CR (3 LEC)**  
**COLLEGE ALGEBRA**

Prerequisite: MATH 0304 Beginning and Intermediate Algebra (B or above) or required placement score

Corequisite: MATH 0301 Math Drill, if needed by placement

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)

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**MATH 1404**

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spreadsheets, typesetters, graphing programs, geometry software, computer algebra systems, and computer applets.

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**MATH 2804** **4 CR (4 LEC)**  
**CALCULUS I**

Prerequisites: MATH 1403 College Algebra and MATH 1453 Plane Trigonometry, or MATH 1715 Precalculus Mathematics, or required placement score

Topics include concepts, techniques, and applications of limits, continuity, derivatives, and integrals of algebraic, exponential, logarithmic, trigonometric, and inverse trigonometric functions. Appropriate technology is used to discover relationships and to work problems not usually possible to work by hand. (ACTS: MATH 2405)

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**MATH 2804H** **4 CR (4 LEC)**  
**CALCULUS I (HONORS)**

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.

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**MATH 2854** **4 CR (4 LEC)**  
**CALCULUS II**

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 2854)





Students will advance media literacy through media criticism. Provides students with the ability to analyze and evaluate media texts through a variety of critical, cultural communication methodological and theoretical approaches. Focus will be on developing a critical understanding of dominant media, such as music, television, and film, and their role in society

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MCOM 3503 3 CR (3 LEC)

**EDITING AND POST-PRODUCTION**

Prerequisite: MCOM 2513 Media Production  
The techniques of creating a digital film from raw footage; including the use of video editing software, motion graphics, audio/video manipulation tools, and rendering.

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MCOM 3513 3 CR (3 LEC)

**THE CINEMATIC TRADITION**

Prerequisite: MCOM 2513 Media Production  
Theory and practice of cinematic storytelling with an emphasis

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MCOM 495V 1-6 CR (INT/PRAC)  
MEDIA COMMUNICATION INTERNSHIP

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 for a maximum of six hours.

## MEEG Mechanical Engineering

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MEEG 2103 3 CR (3 LEC)  
INTRODUCTION TO MACHINE ANALYSIS

Prerequisites: PHYS 2903 University Physics I, ENGN 2753 Engineering Statics, and CGT 1302 Graphics for Engineers  
Introduction to kinematics and kinetics of mechanisms, static and dynamic forces, and gears and cam design and analysis.

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MEEG 2303 3 CR (3 LEC)  
INTRODUCTION TO MATERIALS

Prerequisite: MATH 2804 Calculus I  
Prerequisite or corequisite: CHEM 1403 College Chemistry 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.

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MEEG 2703 3 CR (3 LEC)  
NUMERICAL METHODS I

Prerequisite or corequisite: MATH 3214  
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

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MGMT 1201 1 CR (1 LEC)  
PLANNING FOR SUCCESS

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.

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MGMT 1203 3 CR (3 LEC)  
FOUNDATIONS OF BUSINESS

Prerequisite or corequisite: ENGL 1203 Composition I or ENGL 1233 Honors Composition  
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.

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MGMT 1103 3 CR (3 LEC)  
BASIC BUSINESS COMPUTING

Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition and SPCH 1203 Introduction to Speech Communication  
Introduction to the use of Microsoft Office suite. Emphasis is on the functionality of Microsoft Excel, but basics of Word, Power Point, and Access are addressed. Topics are presented and applied in a business context.

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MGMT 2203 3 CR (3 LEC)  
INTRODUCTION TO INTERNATIONAL BUSINESS

Prerequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition and SPCH 1203 Introduction to Speech Communication  
Emphasizes the interdependence of countries and the changing business trends in the global environment. Students are introduced to world geography, socio-politics, global institutions, monetary and economic systems, trade and investment, and ways of entering new markets.

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MGMT 2863





to all fields of business. Special emphasis given to policy determination at the management level. Course must be taken in residence at UAFS.

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



schedule of classes for the semester in which the course is offered. May be repeated for a total of nine hours.

## MLED Middle School Education

MLED 3563

3 CR (3 LEC)

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

MUSS

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

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MUSI 1233 3 CR (3 LEC)  
MUSIC THEORY II

Prerequisite: MUSI 1223 Music Theory I or consent of instructor

Corequisite: MUSI 1211 Sight Singing and Ear Training II

Focuses on the study of melody writing, binary and ternary forms, and instruction in primary and secondary triads in root position, inversions of major and minor triads, and embellishing tones. Additional instruction in dominant-seventh chords, secondary dominant and leading-tone chords, modulations and composing short piano pieces.

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MUSI 1322

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MUSI 2871 1 CR, (1 LEC, 1 LAB)  
FUNDAMENTALS OF IMPROVISATION II

Prerequisite: MUSI 2861 Fundamentals of Improvisation I  
Reviews scales, modes, chords, and improvised melodies in jazz, pop, and rock music taught in MUSI 2861. Advanced improvisational techniques and materials are addressed. Ability to read music is required.

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MUSI 3000 0 CR  
RECITAL ATTENDANCE

Prerequisite: music major  
Provides opportunities to participate as audience members in the creative process of music-making during a wide variety of live performances. Offered on a pass/fail basis. Music majors are required to attend a specific number of performances each semester. Must pass four semesters for the bachelor of arts in music; must pass three semesters for the bachelors of music education.

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MUSI 3102 2 CR (2 LEC)  
ORCHESTRATION AND ARRANGING

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.

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MUSI 3202 2 CR (2 LEC)  
COMMERCIAL MUSIC ARRANGING

Prerequisite: music major with junior standing and MUSI 2813 Music Theory IV  
Designed to provide students with the fundamental techniques necessary for writing jazz and pop music arrangements. Course topics include theoretical principles, melody, rhythm, texture, arranging techniques, analysis, chord types and relationships, and orchestration.

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MUSI 3352 2 CR (2 LEC)  
PIANO PEDAGOGY

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.

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MUSI 3372 2 CR (2 LEC)  
VOCAL PEDAGOGY

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 pedagogical language that facilitates the teaching of voice, and the observational and diagnostic skills needed for effective teaching.

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MUSI 3472 2 CR (1 LAB)  
COMPOSITION

Prerequisites: MUSI 2813 Music Theory IV and MUSR 3102 Orchestration and Arranging or consent of instructor

Private lessons in creative composition with a variable number of sessions in credit. (10.1 (1-1.))2v[(dee teach ind MUSr)1di a uori  
0 0 9 250.949 259.4606.5471 CR 3(1 LAB3)



scheduling is contingent upon personnel and levels of ability.  
May be repeated for a total of four hours.

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MUSR 1351

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



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MUSR 3461 1 CR (2 PART)  
WOMEN'S CHORUS

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.

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MUSR 3471 1 CR (2 PART)  
ACCOMPANYING AND CHAMBER MUSIC

Prerequisite: Successful completion of four semesters of MUSP 1252 Private Piano or consent of the instructor  
Designed for the piano music major. Provides practical, basic training for developing the vocal, choral, and instrumental accompanist and performance with a variety of chamber music ensembles. Students learn to think creatively, independently, and analytically while preparing their individual studio accompanying assignments. Course may be repeated for a total of four hours.

## NURS Bachelor of Science in Nursing

Enrollment in courses beginning with the NURS pre x requires admission into the bachelor of science in nursing program or consent of the program director or dean.

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NURS 2002 2 CR (2 LEC)  
INFORMATION TECHNOLOGY IN NURSING

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.

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NURS 2103 3 CR (3 LEC)  
INTRODUCTION TO PROFESSIONAL NURSING

Prerequisite: admission to the BSN or BSN-Accelerated Program  
Prerequisite or corequisite (BSN only): HLTH 3103 Pathophysiology and NURS 3164 Health Assessment  
Corequisite (BSN-Accelerated only): NURS 3164 Health Assessment, NURS 3113 Nursing Skills, and NURS 3227 Foundations of Nursing Care  
Examines the foundation of professional nursing practice. Focuses on nursing history and trends, nursing process, and nursing roles.

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NURS 2413 3 CR (3 LEC)  
LEGAL/ETHICAL ISSUES IN NURSING

Prerequisites: current LPN and RN licensure or current SB-URS 3113 Nursing Sf thd94urrenNNJTJ T\* [(486[(4 P)30.1 (r)6 (oxplor)10 (es d50.1 (ursing Car)10.1r8B.8nsur)10.2 (e1y4-1.1 (ur

Provides an overview of the course content and objectives. This section includes a list of the course topics and a brief description of each topic. It also includes a list of the course objectives and a brief description of each objective.

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

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.

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**NURS 4805** **5 CR (5 LEC)**  
**CURRENT ISSUES AND TRENDS IN PROFESSIONAL NURSING PRACTICE**

Prerequisites: RN licensure or consent of instructor  
 Prerequisite or corequisite: NURS 3164 Health Assessment  
 An investigation into current issues and trends in professional nursing practice.

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**NURS 4903** **3 CR (3 LEC)**  
**DIMENSIONS IN PROFESSIONAL PRACTICE**

Prerequisite or corequisite: current RN license or consent of executive director of the School of Nursing or dean of the College of Health Sciences, and all courses required for the bachelor of science in nursing 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

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**NUTR 2523** **3 CR (3 LEC)**  
**NUTRITION**

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 communities.

**NUTRITION**

Through the application of the scientific method, students explore the relationship between diet and health.

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OMT 299V 1-3 CR (VARIABLE)  
OFFICE MANAGEMENT TECHNOLOGY SPECIAL PROJECTS

Prerequisite: consent of department head  
Designed for the advanced OMT student who has completed or enrolled in all other appropriate OMT courses offered at UAFS. May be repeated for a total of six hours.

## OSS Overseas Study

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OSS 260V 1-6 CR (VARIABLE)  
OVERSEAS STUDY

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 six hours for elective credit.

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OSS 460V 1-6 CR (VARIABLE)  
OVERSEAS STUDY

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 six hours for elective credit.

## PHAR Pharmacology

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PHAR 3203 3 CR (3 LEC)  
GENERAL PHARMACOLOGY

Prerequisite: HLTH 3103 Pathophysiology.

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PHSC 2503 FUNDAMENTALS OF ASTRONOMY Prerequisite or corequisite: MATH 1303 College Mathematics and Quantitative Literacy, or MATH 1403 College Algebra or higher MATH, or required placement score 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)	3 CR (3 LEC)	PHYE 1021 INTERMEDIATE AEROBIC FITNESS 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.	1 CR (2 ACT)
PHSC 2651 EARTH SCIENCE LABORATORY Prerequisite or corequisite: PHSC 2653 Earth Science A study in minerals, rocks, fossils, topographic map and geologic maps, and oceanographic and meteorological phenomena.	1 CR (2 LAB)	PHYE 1101 HEALTH CONCEPTS Individualized, self-paced program teaches basic lifetime exercise skills and health-related activities.	1 CR (2 ACT)
PHSC 2653 EARTH SCIENCE 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)	3 CR (3 LEC)	PHYE 1261 WALKING/BEGINNING JOGGING 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.	1 CR (2 ACT)
PHSC 2711 PHYSICAL SCIENCE LABORATORY 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.	1 CR (2 LAB)	PHYE 1271 TENNIS 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 on campus.	1 CR (2 ACT)
PHSC 2713 PHYSICAL SCIENCE Prerequisite: MATH 0304 Beginning and Intermediate Algebra or higher level MATH course or exemption by placement 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)	3 CR (3 LEC)	PHYE 1502 SPORTS FUNDAMENTALS Basic techniques, materials, teaching aids, and rules of football and basketball are discussed in this course.	2 CR (2 LEC)
PHYE 0990 WELL FIT 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.	0 CR	PHYE 1551 GOLF 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 on campus. There is a nominal green fee required.	1 CR (2 ACT)
PHYE 1011 BEGINNING AEROBIC FITNESS 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.	1 CR (2 ACT)	PHYE 1561 MARTIAL ARTS I The fundamentals of martial arts are covered. Instruction is given in rules and etiquette, and students participate in each activity.	1 CR (2 ACT)
PHYE 1621 TOTAL FITNESS 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.	1 CR (2 ACT)	PHYE 1571 MARTIAL ARTS II 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.	1 CR (2 ACT)

## PHYE Physical Education

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PHYE 1701 1 CR (2 ACT)  
INTRODUCTION TO VOLLEYBALL  
Introduction to both the rules and fundamentals of the sport of volleyball.

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PHYE 2353 3 CR (3 LEC)  
SPORTS OFFICIATING  
Sports Officiating is designed to teach the basic rules of football, basketball, baseball, soccer, and volleyball for people interested in becoming sports referees.

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PHYE 2571 1 CR (2 ACT)  
MARTIAL ARTS III  
Prerequisite: PHE 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.

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PHYE 2761 1 CR (2 ACT)  
RECREATIONAL ACTIVITIES  
Fundamentals of outdoor recreation in noncompetitive activities. Most activities are on campus.

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PHYE 2853 3 CR (3 LEC)  
Introduction to, and analysis of, the sport of volleyball.

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A computer-assisted introduction to social research methods and statistics, including the techniques of research design, administration, and analysis.

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POLS 4103

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TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX



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.

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**PRFS 3833** **3 CR (3 LEC)**

**DIVERSITY IN THE WORKPLACE**

Prerequisite: consent of department head  
 Historical and contemporary perspectives of cultural diversity, including ethnicity, age, sexual orientation, gender, religion, or national origin, which affect employees' quality of life in the workplace. Student develops theoretical models that may be applied to real life.

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**PRFS 4033** **3 CR (3 LEC)**

**CONSENSUS BUILDING AND CONTINUOUS IMPROVEMENT**

Prerequisite: consent of department head  
 Examines the elements of managing a business enterprise through development of a culture of quality, competitiveness, and customer focus utilizing teamwork, empowerment, and the appropriate application of the tools of continuous improvement.

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**PRFS 4133** **3 CR (3 LEC)**

**PROJECT MANAGEMENT**

Prerequisite: consent of department head  
 Prepares the student for in-depth understanding of managing projects from initiation to completion. Topics covered include organizational structure and staffing, project planning, network systems, pricing, cost control, and proposal preparation.

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**PRFS 4433** **3 CR (3 LEC)**

**SUPERVISORY TOTAL QUALITY MANAGEMENT**

Prerequisite: consent of department head  
 Management philosophies, methods for employee empowerment, appropriate communication applications, and optimization of productivity are examined from the manager's perspective while maintaining a customer-driven focus for the work enterprise.

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**PRFS 4633** **3 CR (3 LEC)**

**DECISION MAKING IN ORGANIZATIONS**

Prerequisite: consent of department head  
 Interdisciplinary study of organizational theory and human

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PSYC 1163H 3 CR (3 LEC)  
GENERAL PSYCHOLOGY (HONORS)

Prerequisite: acceptance into Honors International Studies program

Designed to be taken concurrently with ENGL 1233 Honors Composition. An in-depth version of PSYC 1163. Requires the synthesis and application of course material as well as the use of critical thinking and problem-solving skills in both verbal and written formats.

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PSYC 2513 3 CR (3 LEC)  
INTRODUCTION TO BEHAVIORAL STATISTICS

Prerequisites: PSYC 1163 General Psychology and MATH 1303 College Mathematics and Quantitative Literacy or higher MATH course

H eNts-1.1sg skills

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<b>PSYC 3613</b> <b>EXPERIMENTAL PSYCHOLOGY</b>	3 CR (3 LEC)	<b>PSYC 4153</b> <b>CONDITIONING AND LEARNING</b>	3 CR (3 LEC)
Prerequisites: PSYC 2613 Research Methods in Psychology 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.		Prerequisites: junior standing, three hours of upper level psychology courses, PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Laboratory, and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition Traditional and modern approaches to reinforcement, punishment, generalization, discrimination, and constraints on learning are examined and evaluated.	
<b>PSYC 3653</b> <b>APPLIED RESEARCH IN PSYCHOLOGY</b>	3 CR (3 LEC)	<b>PSYC 4223</b> <b>PSYCHOLOGY OF PERSONALITY</b>	3 CR (3 LEC)
Prerequisites: PSYC 3613 Experimental Psychology and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, 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.		Prerequisites: psychology major with junior standing, three hours of upper-level psychology courses, PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Laboratory and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition or criminal justice major, PSYC 1163 General Psychology, STAT 2503 Probability and Statistics I, BIOL 1153/1151 Biological Science/Laboratory 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.	
<b>PSYC 3703</b> <b>INTRODUCTION TO FORENSIC PSYCHOLOGY</b>	3 CR (3 LEC)	<b>PSYC 4233</b> <b>PSYCHOLOGY OF ADDICTIONS</b>	3 CR (3 LEC)
Prerequisite: PSYC 1163 General Psychology, and ENGL 1213 Composition II, ENGL 1233 Honors Composition or RHET 2863 Advanced Composition, and one of the following: HIST 2763 United States History II, or POLS 2753 American National Government, or CJ 1013 Introduction to the Criminal Justice System Reviews behavioral theories and research and their relationship with the legal system; examines roles of psychologists in the criminal justice system. Includes an examination of the services of forensic psychologists such as expert witnessing, criminal profiling, trial consulting, legal decision making on child custody, jury selection, mental health services, and assessment methods of maladaptive behaviors in a forensic setting.		Prerequisites: PSYC 2613 Research Methods in Psychology and three hours upper-level psychology courses, or consent of department head Theories and empirical research of both historical and current issues with respect to addictions in general are studied. Special emphasis on stages and characteristics of addiction, its course, prevalence; familial patterns and specific symptoms of addiction; and the examination of various treatment effects including effective intervention strategies.	
<b>PSYC 3763</b> <b>ABNORMAL PSYCHOLOGY</b>	3 CR (3 LEC)	<b>PSYC 4243</b> <b>ADOLESCENT PSYCHOLOGY</b>	3 CR (3 LEC)
Prerequisites: PSYC 2963 Developmental Psychology: A Life Span and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, 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.		Prerequisites: PSYC 2963 Developmental Psychology: A Life Span, PSYC 2613 Research Methods in Psychology and three hours upper-level psychology courses, or consent of department head Theories of psychological development, pathology, and the normal and abnormal views of the adolescence stage are studied. Includes the most researched stages of adolescent behavior and personality, issues of adolescent brain development and criteria for the diagnosis of maladjustment and mental disorders.	
<b>PSYC 4133</b> <b>PHYSIOLOGICAL PSYCHOLOGY</b>	3 CR (3 LEC)	<b>PSYC 4303</b> <b>SENSATION AND PERCEPTION</b>	3 CR (3 LEC)
Prerequisites: PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Laboratory or higher BIOL, and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, 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 neuro-degenerative diseases. Brief laboratory exercises.		Prerequisites: psychology major with junior standing, PSYC 2613 Research Methods in Psychology, BIOL 1153/1151 Biological Science/Laboratory, PSYC 4133 Physiological Psychology, and one of the following: ENGL 1213 Composition II, ENGL 1233 Honors Composition, or RHET 2863 Advanced Composition Examination of the physiological processes of sensation and perception.	



**RADT 1202** 2 CR (2 LEC)  
**RADIOGRAPHIC EXPOSURES I**

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 Radiographic Physics

An introduction of the physics of x-ray production and emission and the factors in ensuring 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** 2 CR (1 LEC, 2 LAB)  
**RADIOGRAPHIC PROCEDURES II**

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. 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** 4 CR (20 LAB)  
**CLINICAL EDUCATION II**

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

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** 2 CR (2 LEC)  
**RADIATION PHYSICS**

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** 2 CR (2 LEC)  
**RADIOGRAPHIC EXPOSURES II**

Prerequisite: RADT 1202 Radiation Exposure I  
Corequisites: RADT 1312 Radiographic Procedures III and RADT 1323 Clinical Education III

A continuation of RADT 1202. 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** 2 CR (1 LEC, 2 LAB)  
**RADIOGRAPHIC PROCEDURES III**

Prerequisite: RADT 1212 Radiographic Procedures II  
Corequisites: RADT 1302 Radiographic Exposures II, and RADT 1323 Clinical Education III

A continuation of RADT 1212. 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** 3 CR (24 LAB)  
**CLINICAL EDUCATION III**

Prerequisite: RADT 1224 Clinical Education II  
Corequisites: RADT 1302 Radiation Exposure II and RADT 1312 Radiographic Procedures III

Continuation of 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** 2 CR (1 LEC, 2 LAB)  
**RADIOGRAPHIC PROCEDURES IV**

Prerequisite: RADT 1312 Radiographic Procedures III  
Prerequisites or corequisites: ENGL 1213 Composition 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. 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 uroscopic exams of the gastrointestinal tract, will be presented.

**RADT 2424** 4 CR (20 LAB)  
**CLINICAL EDUCATION IV**

Prerequisite: RADT 1323 Clinical Education III  
Prerequisites or corequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, 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** 2 CR (2 LEC)  
**PRINCIPLES OF RADIATION BIOLOGY/PROTECTION**

Prerequisite: RADT 1302 Radiographic Exposures II  
Prerequisites or corequisites: ENGL 1213 Composition II or ENGL 1233 Honors Composition, PSYC 1163 General Psychology, or SOCI 2753 Introduction to Sociology  
Corequisites: RADT 2412 Radiographic Procedures IV and RADT 2424 Clinical Education IV

An overview of the principles of the interaction of radiation and biological systems and effects of radiation on biological molecules and organisms and factors affecting biological response. Provides an overview of principles of radiation protection and the responsibility of the radiographer. Regulatory agencies are identified and agency involvement discussed.

<b>RADT 2502</b> <b>IMAGING EQUIPMENT</b>	<b>2 CR (2 LEC)</b>
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.	
<b>RADT 2512</b> <b>RADIOGRAPHIC PROCEDURES V</b>	<b>2 CR (1 LEC, 2 LAB)</b>
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.	
<b>RADT 2524</b> <b>CLINICAL EDUCATION V</b>	<b>4 CR (20 LAB)</b>
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.	
<b>RADT 2601</b> <b>RADIOGRAPHIC PATHOLOGY</b>	<b>1 CR (1 LEC)</b>
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.	
<b>RADT 2611</b> <b>SENIOR SEMINARS</b>	<b>1 CR (2 LAB)</b>
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.	
<b>RADT 2623</b> <b>CLINICAL EDUCATION VI</b>	<b>3 CR (24 LAB)</b>
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.	



<b>RHET 4153</b> <b>POETRY WORKSHOP</b>	3 CR (3 LEC)	Additionally, students will produce a variety of digital and traditional texts using a variety of tools and software.
Prerequisite: RHET 3513 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.		
<b>RHET 4173</b> <b>SPECIAL TOPICS IN CREATIVE WRITING</b>	3 CR (3 LEC)	
Prerequisite: RHET 3513 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 eco fiction, writing historical fiction, and songwriting. May be repeated once for credit.		
<b>RHET 4303</b> <b>THE ART OF THE ESSAY</b>	3 CR (3 LEC)	
Prerequisite: RHET 3513 Imaginative Writing 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, Proust, Freud, Jung, Gould, Eiseley, and others.		
<b>RHET 4503</b> <b>ARGUING PUBLIC ISSUES</b>	3 CR (3 LEC)	
Prerequisites: RHET 2863 Advanced Composition or RHET 3103 Editing for Usage, Style, and Clarity 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.		
<b>RHET 4523</b> <b>GRANT WRITING</b>	3 CR (3 LEC)	
Prerequisite: RHET 2863 Advanced Composition or RHET 3103 Editing for Usage, Style, and Clarity or RHET 3603 Writing for the Workplace or consent of instructor Theory and practice in writing for businesses and non-profits. Includes advanced projects such as proposals, grants, grant action plans, ISO related documents, annual reports, strategic plans and/or feasibility studies.		
<b>RHET 4603</b> <b>SCIENTIFIC AND TECHNICAL WRITING</b>	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.		
<b>RHET 4633</b> <b>WRITING FOR THE WEB</b>	3 CR (3 LEC)	
Prerequisites: RHET 2863 Advanced Composition or RHET 3103 Editing for Usage, Style, and Clarity or RHET 3903 Visual Rhetoric or consent of instructor Provides advanced instruction in writing for multimedia, including principles of web usability, information design, and new media journalism. Examines ways in which new technologies and social media impact rhetoric and the writing process.		
<b>RHET 4733</b> <b>SPECIAL TOPICS IN RHETORIC</b>	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.		
<b>RHET 4803</b> <b>SENIOR SEMINAR</b>	3 CR (3 LEC)	
Prerequisites: rhetoric and writing major with senior standing, or consent of instructor Provides a capstone experience for rhetoric and writing majors.		
<b>RHET 493V</b> <b>WRITING: INDEPENDENT PROJECT</b>	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 six hours of credit toward degree with consent of instructor and advisor.		
<b>RHET 4953</b> <b>WRITING INTERNSHIP</b>	3 CR (INT/PRAC)	
Prerequisite: junior standing, 2.75 GPA, and consent of instructor Student is placed in a working environment that requires the use of advanced skills in reading, research, and writing. They will be exposed to comprehensive professional experience such as extended job shadowing, and other systematic, planned work experiences. Student will work under the supervision of an individual at the internship agency and a member of the English faculty. The student must secure permission from both supervisors prior to registration.		
		<b>SAS Student Academic Success</b>
<b>SAS 0201</b> <b>BRIDGE TO SUCCESS SEMINAR</b>	1 CR (1 LEC)	
Prerequisite: consent of department head Bridge to Success reinforces study strategies and student choices resulting in responsible learners actively engaged in their academic and personal lives. Students who successfully complete this course will have an implementation plan and skills that will lead to success in college and life decisions. Topics include self assessment, personal responsibility, self-motivation, self-management, interdependence, and learning strategies.		
<b>SAS 0203</b> <b>FOUNDATIONAL COURSE FOR SUCCESS</b>	3 CR (3 LEC)	
Prerequisites: ENGL 0263 Transition to College Writing and Reading, and MATH 0233 Beginning Algebra or MATH 0304 Beginning and Intermediate Algebra Students who successfully complete this course will develop the skills necessary for success in college and in life.		





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**SOCI 4203** 3 CR (3 LEC)  
**SOCIOLOGY: SPECIAL TOPICS**

Prerequisites: SOCI 2863 Introduction to Social Research Methods, and one of the following: ENGL 1213 Composition 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.

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**SOCI 4803** 3 CR (3 LEC)  
**SENIOR SEMINAR**

Prerequisites: 12 hours of sociology or consent of department head

Topics will vary by student.

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**SOCI 4813** 3 CR (3 LEC)  
**GLOBAL CHALLENGES**

Prerequisite: SOCI 3413 Sociological Theory or consent of department head

An examination of the global trends in governance, economies, demographics, resources, security, information, and technologies. A specific focus will be put on how and why these trends are forming, and on why these trends are likely to affect the geopolitical interactions between nation-states in the years to come. Course is equivalent to ANTH 4813 and POLS 4813, and may only be taken once for credit.

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**SOCI 493V** 1-3 CR (IND STU)  
**SOCIOLOGY INDEPENDENT STUDY**

Prerequisites: 15 hours of sociology and senior standing, or consent of the instructor

Advanced assignments in selected areas. May be repeated for a total of six hours.

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## SOWK Social Work

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**SOWK 2103** 3 CR (3 LEC)  
**INTRODUCTION TO SOCIAL WORK**

Prerequisite: SOCI 2753 Introduction to Sociology  
Prerequisite or corequisite: ENGL 1213 Composition II or ENGL 1233 Honors Composition

Addresses historical roots of the social work profession and social welfare. The person-in-environment perspective is discussed as the framework for social work knowledge, values, skills, the social work profession, ethics, fields of practice, and the settings in which social workers are employed. Commitment to diverse and at-risk populations and social/economic justice is highlighted.

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**SOWK 3043** 3 CR (3 LEC)  
**HUMAN BEHAVIOR IN THE SOCIAL ENVIRONMENT**

Prerequisite: SOWK 2103 Introduction to Social Work  
Prerequisite or corequisite: BIOL 1153/1151 Biological Science/Lab, PSYC 1163 General Psychology, and SOCI 2753 Introduction to Sociology

Introduces social workers' perspective on human behavior and the social environment. An ecological perspective is used to focus on the biological, psychological, and sociological context of human development. Relationships between life span issues and the understanding of person-environment are all areas of study.

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**SOWK 3113** 3 CR (3 LEC)  
**SOCIAL WORK PRACTICE I**

Prerequisites: admission to the BSW program  
Prerequisite or corequisite: SOWK 3413 Diversity and Social Economic Justice

Addresses the practice of social work in a case management context. Designed to introduce students to ways in which case management is used to assist vulnerable populations. A particular focus is developing effective service plans with clients and finding the necessary community resources. All phases of the case management process will be discussed.

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**SOWK 3413** 3 CR (3 LEC)  
**DIVERSITY AND SOCIAL ECONOMIC JUSTICE**

Prerequisites: SOWK 2103 Introduction to Social Work and SOWK 3043 Human Behavior in the Social Environment, or consent of instructor

Increases awareness, knowledge, and understanding of issues related to diversity, human rights, social and economic justice. Examines social identity, difference and dominance theories of social justice and oppression, coalition building across differences and its applications in multicultural social work settings. Direct development of skills in working with, and on behalf of, diverse populations will be emphasized.

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**SOWK 3423** 3 CR (3 LEC)  
**SOCIAL WORK PRACTICE II**

Prerequisites: admission to the BSW program and SOWK 3113 Social Work Practice I

Prerequisite or corequisite: SOWK 3433 Populations at Risk and SOWK 3733 Social Work Practice III

Theoretical and practice dimensions of social work in diverse populations, sensitivity to diverse racial/ethnic family dynamics, basic interviewing, intervention, documentation, and communication skills necessary for effective social work intervention are addressed.

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**SOWK 3433** 3 CR (3 LEC)  
**POPULATIONS AT RISK**

Prerequisite or corequisite: SOWK 3413 Diversity and Social Economic Justice or consent of instructor

Covers specialized social work practices with targeted groups: teens, special needs, and aging clientele. Addresses social work theory (person-in-environment), practice principles, standards, and values to practice with these populations. Special attention is given to these populations in Arkansas.

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**SOWK 3523** 3 CR (3 LEC)  
**SOCIAL WORK IN MENTAL HEALTH**

Prerequisites: admission to BSW program or SOWK 3043 Human Behavior in the Social Environment, and PSYC 1163 General Psychology, or consent of instructor

Introduces methods of rehabilitation, including ways of collaborating with families, community support services, and consumer groups. Reviews the history of mental health services in the United States. Attention will be given to explanations of mental illness and evidence based "best" practices. Models of engagement, interventions, and the impact culture has on help seeking behaviors and healing practices will be examined. Lastly, advocacy skill will be practiced for people with mental illness.

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**SOWK 3733** 3 CR (3 LEC)  
**SOCIAL WORK PRACTICE III**

Prerequisites: SOWK 3113 Social Work Practice I and SOWK 3823 Social Policy Analysis and Advocacy

Prerequisite or corequisite: SOWK 3433 Populations at Risk and SOWK 3423 Social Work Practice II

Prepares students with knowledge, values, skills, and ethics for macro level generalist social work practice. Topics include community, bureaucracy, social planning, social action, and locality organization development.

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SOWK 3823 3 CR (3 LEC)

**SOCIAL POLICY ANALYSIS AND ADVOCACY**

Prerequisites: admission to the BSW program or consent of instructor

Prerequisite or corequisite: POLS 2753 American National Government

Examines the rationale, implementation and effectiveness of current social welfare policies and programs. Content includes strengths, limitations, and alternatives to governmental intervention in social welfare. Emphasis on concepts and frameworks for analyzing social welfare policies and programs, with special attention to their differential impact on at-risk and oppressed populations.

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SOWK 3833 3 CR (3 LEC)

**SPECIAL POPULATIONS: ADVOCACY FOR GERIATRIC CARE**

Prerequisites: admission to the BSW program, or SOWK

3043 Human Behavior in the S7.6307 1 (enFE)6.1 (nv8i9O0t]TJ ET q1i consent )]T[(r)h0 -1.106 TD [(includeu4 a.iA2u106 engths, 106 7

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cultural insight. The emphasis is on communication. (ACTS: SPAN 1023)

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**SPAN 2303** 3 CR (3 LEC)  
**INTERMEDIATE SPANISH I**

Prerequisite: SPAN 1314 Beginning Spanish II or required placement score

Continues development of Spanish language skills – listening comprehension, speaking, reading, writing, and cultural insight. (ACTS: SPAN 2013)

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**SPAN 2313** 3 CR (3 LEC)  
**INTERMEDIATE SPANISH II**

Prerequisite: SPAN 2303 Intermediate Spanish I or required placement score

Continues development of Spanish language skills – listening comprehension, speaking, reading, writing, and cultural insight. (ACTS: SPAN 2023)

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**SPAN 2323** 3 CR (3 LEC)  
**INTERMEDIATE SPANISH II FOR HERITAGE SPEAKERS**

Prerequisite: SPAN 2303 Intermediate Spanish I or required placement score, and consent of department head

Continues development of language skills, with particular emphasis on areas of difficulty for heritage learners of Spanish - grammar, orthography, and writing.

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**SPAN 2833** 3 CR (3 LEC)  
**SPANISH FOR THE PROFESSIONS**

Prerequisite: SPAN 2303 Intermediate Spanish I or consent of department head

Focuses on the forms of Spanish needed for communication by the practitioners of a specific profession.

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**SPAN 3003** 3 CR (3 LEC)  
**PHONETICS AND PRONUNCIATION**

Prerequisite: SPAN 2303 Intermediate Spanish I

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.

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**SPAN 3013** 3 CR (3 LEC)  
**SPANISH GRAMMAR**

Prerequisite: SPAN 2313 Intermediate Spanish II or SPAN 2323 Intermediate Spanish II for Heritage Speakers

A review of Spanish grammar and an introduction to composition as it pertains to TL81

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2323 Intermediate Spanish II for Heritage Speakers



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.

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**SPED 3413** 3 CR (3 LEC, 1 LAB)  
**CLASSROOM AND GROUP MANAGEMENT**

Prerequisite: admission into the educator preparation program and SPED 3003 Teaching Diverse Learners, or consent of department head

Focuses on developing personal systems of discipline through study and research of the major philosophies and models of discipline; study of generic classroom management principles, and application of theoretical information for K-12 teachers.

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**SPED 4403** 3 CR (3 LEC, 1 LAB)  
**ASSESSMENT AND DIFFERENTIATION FOR DIVERSE LEARNERS**

Prerequisite: SPED 3003 Teaching Diverse Learners or consent of department head

Using evidence-based practices to meet the needs of diverse learners.

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**SPED 4803** 3 CR (3 LEC)  
**SPECIAL EDUCATION ACADEMY 101**

Prerequisite: admission to the educator preparation program or consent of department head

Addresses essential information for educators teaching special education.

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**SPED 4813** 3 CR (3 LEC, 1 LAB)  
**INSTRUCTIONAL STRATEGIES FOR THE DIVERSE LEARNER**

Prerequisite: admission to the educator preparation program or consent of department head

Addresses the use of evidence-based multi-sensory instructional strategies to meet the needs of diverse learners.

estimation, and hypothesis testing emphasizing an inquiry based approach and applications to international studies and research. This course satisfies the requirement of MGMT 2963 Business Statistics for business majors in the honors program. (ACTS: MATH 2103)

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**STAT 2603** 3 CR (3 LEC)  
**PROBABILITY AND STATISTICS II**

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

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**STAT 3503** 3 CR (3 LEC)

## STAT Statistics

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**STAT 2503** 3 CR (3 LEC)  
**PROBABILITY AND STATISTICS I**

Prerequisites: MATH 1303 College Mathematics and Quantitative Literacy or MATH 1403 College Algebra or required placement score

An introductory course in probability and statistics, including statistical terminology, descriptive data, linear regression, probabilities, probability distributions, discrete and random variables, sampling distributions, point and interval estimation, and hypothesis testing. Course is equivalent to PSYC 2513 Introduction to Behavioral Statistics. (ACTS: MATH 2103)

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**STAT 2503H** 3 CR (3 LEC)  
**PROBABILITY AND STATISTICS I (HONORS)**

Prerequisites: MATH 1303 College Mathematics and Quantitative Literacy or MATH 1403 College Algebra or required placement score

Prerequisite or corequisite: HONR 1101 Introduction to Honors International Studies

An introductory course in probability and statistics for students in the Honors International Studies program, including statistical terminology, descriptive data, linear regression, probabilities, probability distributions, discrete and continuous random variables, sampling distributions, point and interval









In-depth study and practice of the gas metal arc welding (GMAW) 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 flat welds in all positions, flux-cored arc welding of flat welds in all positions, and AWS required workmanship samples.

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WELD 1454 4 CR (2 LEC, 4 LAB)  
LAYOUT AND FABRICATION—SHEET METAL

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.

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WELD 1474 4 CR (2 LEC, 4 LAB)  
LAYOUT AND FABRICATION— STRUCTURAL AND PIPE

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.

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WELD 2282

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WFL 1703 3 CR (3 LEC) Instruction in methods and techniques to build and lead workplace teams to meet organizational stratec1.106 Td 0 0 9 7Ond tech-7.  
**BASIC BUSINESS COMMUNICATION USING MICROSOFT OFFICE**

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Focuses on the use of computer business applications to complete standard written and oral business communications such as letters, checklists, academic papers, business presentation visual aids, presentation handouts, spreadsheets, charts, and process flow charts.

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WFL 2174 4 CR (4 LEC)  
**INTRODUCTION TO LEAN ENTERPRISE SYSTEMS**

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Prerequisite: consent of department head  
Examines the concept of achieving a lean enterprise in business and manufacturing operations. e students explore the strategies and philosophies of operating a business in today's changing times.

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WFL 2303 3 CR (3 LEC)  
**SIX SIGMA STRATEGIES**

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Prerequisite: MATH 1303 College Mathematics and Quantitative Literacy or MATH 1403 College Algebra, or consent of department head

An overview of Six Sigma methodologies used to improve company performance with an emphasis in the DMAIC (define, measure, analyze, improve, control) approach. e course will also examine the value of using quality and performance measures to define strategy in an organization.

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WFL 2403 3 CR (3 LEC)  
**ORGANIZATIONAL CONCEPTS**

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Prerequisite: consent of department head  
Looks at organizational skills and analyzes company-wide organizational practices with an emphasis in management techniques.

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WFL 2413 3 CR (3 LEC)  
**PROJECT MANAGEMENT**

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Prerequisite: consent of department head  
Using project-management tools and fundamental concepts to develop skills in project selection, assessment, analysis, planning, and tracking. Concepts include risk, task, and resource management.

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WFL 2501 1 CR (1 LEC)  
**SET-UP REDUCTION**

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Prerequisite: consent of department head  
Provides the fundamentals of set-up time and waste reduction in order to maximize equipment availability. It covers the key concepts and application of the Single Minute Exchange of Die (SMED) system including the key elements of variation reduction, interchangeability, tool and equipment proximity, pre-set tooling and first piece quality checks.

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WFL 2503 3 CR (3 LEC)  
**FUNDAMENTALS OF FINANCE AND ACCOUNTING FOR NON-FINANCIAL MANAGERS**

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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.

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WFL 2583 3 CR (3 LEC)  
**TEAM DEVELOPMENT**

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Prerequisite: WFL 1374 Human Relations and Interpersonal Development

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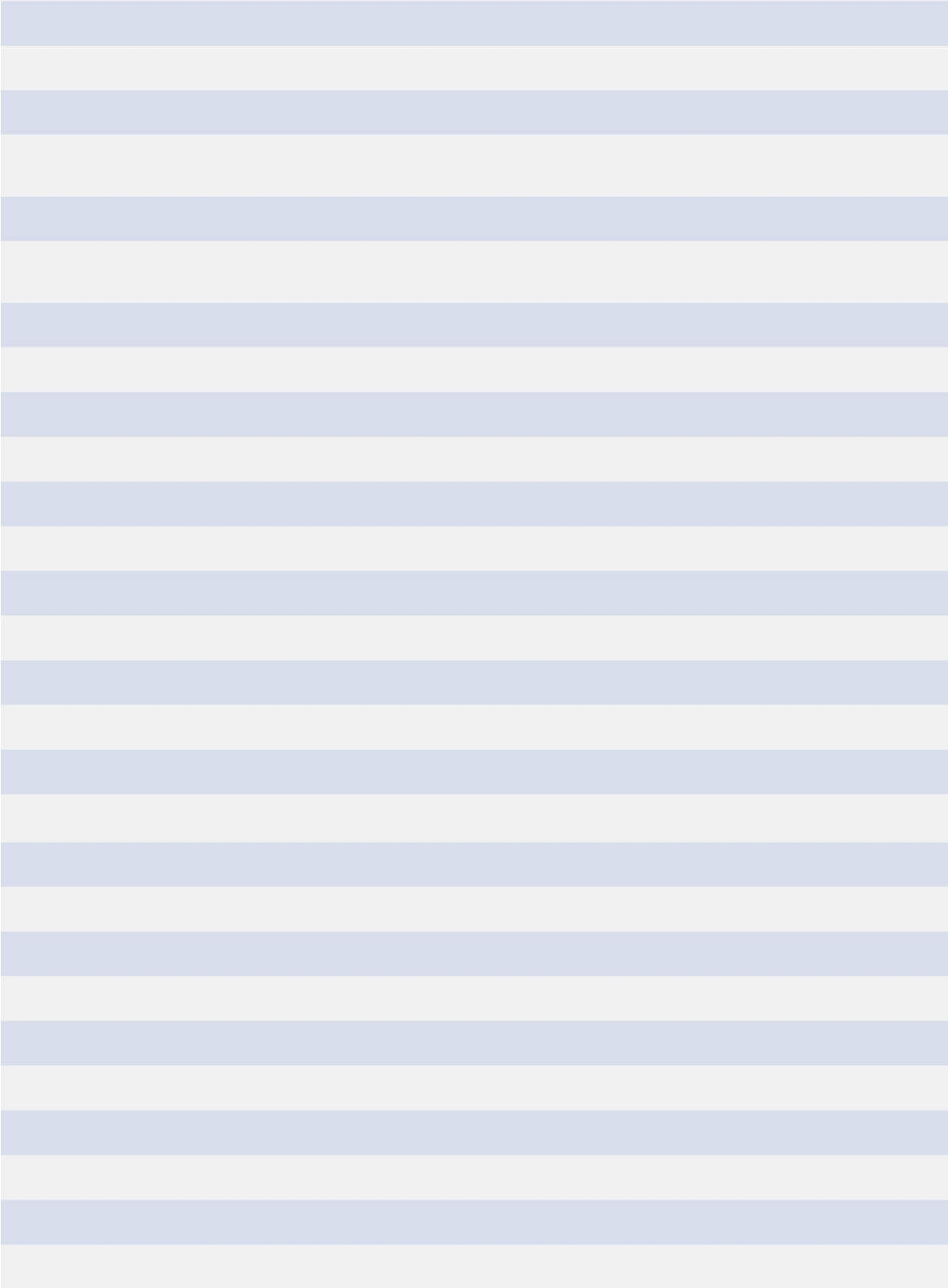


TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

Sayo Fakayode	Professor/Department Head, Physical Science B.S., M.S., University of Ibadan, Nigeria; Ph.D., Baylor University,
Larry H. Faulk II	Associate Professor, Management B.S., Ph.D., Louisiana State University
Emily Foss	Assistant Professor, Mathematics B.S., B.S.M.E., M.A., University of Wisconsin-Madison
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Kristine Garner	Assistant Professor, Biological Sciences A.A., Westark Community College; B.S., M.S., Ed.D., University of Arkansas, Fayetteville
Christian Gerard	Assistant Professor, English B.A., Miami University; M.F.A., Old Dominion University; Ph.D., University of Tennessee, Knoxville
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Ashley Brooke Gray	Instructor, BSN Program A.A.S., University of Arkansas-Fort Smith; B.S.N., Arkansas Tech University; M.S.N., University of Arkansas, Fayetteville
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Jody Grizzle	Technical Instructor, Automotive Technology (WATC) B.S., Northeastern State University
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Virginia Hardgraves	Assistant Professor, Dental Hygiene B.S., University of Arkansas for Medical Sciences; M.S., University of Missouri-Kansas City
Joe Hardin	Professor, English B.A., M.A., Ph.D., University of South Florida
Casey M. Harmon	Assistant Professor/Radiography Clinic Coordinator, Radiography B.S., University of Central Arkansas; M.S.R.S., Midwestern State University.
Katie N. Harper	Associate Professor, Graphic Design B.F.A., San Francisco Art Institute; M.F.A., The University of the Arts
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Billy Higgins	Associate Professor, History B.S., Arkansas Tech University; M.A., University of Arkansas, Fayetteville
John Hightower	Instructor/Department Head, Information Technology B.B.A., Oklahoma Baptist University; M.S., Arkansas Tech University
Cheryl Holden	Assistant Professor, BSN Program B.S., University of Oklahoma-OKCn

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX





Nicha Otero	Associate Professor, Psychology B.S., Morgan State University; Ph.D., University of South Carolina
Randle Overbey	Assistant Professor, Electronics Technology B.S., M.S., Ph.D., Arkansas State University
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Tony Pearn	Assistant Professor, Criminal Justice B.A., M.S., Saint Leo University; D.L.P., Northeastern University
Gerald "Jerry" Peerbolte	Assistant Professor, Marketing B.S., Bradley University; M.B.A., University of Arkansas, Fayetteville
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, English/Faculty Athletics Representative B.S.Ed., M.Ed., Northeastern State University
Ahmad D. Rahal	

Latisha Settlege

Associate Dean/Professor, Economics  
B.S., M.S., University of Arkansas, Fayetteville; Ph.D., Purdue University

Jeremy Shaver

Associate Professor, Biological Sciences  
B.S., Purdue University; Ph.D., University of Washington

Mary Shepard

Associate Professor, Humanities

TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX

Carol Westcamp	Associate Professor, English B.A., M.A., Northeastern State University; Ph.D., University of Arkansas, Fayetteville
Susan Whitlow	Assistant Professor, English/Advising Coordinator B.A., M.A., University of Arkansas, Fayetteville
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Laura Witherington	Associate Professor, English B.A., M.A., University of Central Arkansas, Ph.D., University of Arkansas, Fayetteville
James R. Wollscheid	Professor, Economics B.B.A., McMurry University; M.A., Ph.D., Southern Methodist University
Timothy Workman	Assistant Professor/Director of Choral Activities M.M., B.M., Brigham Young University; D.M.A., University of Texas-Austin
Julia L. Wright	Assistant Professor, Accounting B.S.B.A., M.A.C.C., University of Arkansas, Fayetteville; Ph.D. North Central University
Karen Wright	Instructor/Executive Director, Allied Health A.A.S., University of Arkansas - Fort Smith; B.S.N., Oklahoma Wesleyan University; M.S.N., Walden University
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Mohamed Zainuba	



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Bob Sell	Assistant Professor, Management
Sherron Shueld	Instructor, English
Terri Smith-Leins	Assistant Professor, Mathematics
Monica Snyder	Assistant Professor, Nursing
Ray Sparks	Associate Vice Chancellor for MIS
Dr. Karen Stauffer	Dean, College of Arts and Sciences
Don Tannehill	Instructor, English
Bruce Igen	Assistant Professor, Information Technology
R. C.ompson	Instructor/Clinical Coordinator, Radiography
Dr. Linda Tichenor	Associate Professor, Biology
Wayne J. Vyrostek	Assistant Professor/Technical Director, College of Applied Science and Technology
Tom Walton	Assistant Professor, Communication
Ray Watson	Assistant Professor, Mathematics
Emma Watts	Assistant Professor, Administrative Professional and Office Technology
Lonnie Watts	Associate Professor, Sociology
Dr. Melissa Whiting	Professor, English
Louis Whorton	Head Coach, Women's Basketball
Sharon Winn	Instructor, Office Administration
Ann Scott Winters	Associate Professor, English
Donna Wright	Instructor, Information Technology
James Wyatt	Instructor, Physical Education/Director, Health Education Center
Roger Young	Instructor, History/Student ADA Coordinator
Nancy Bryan Zechiedrich	Instructor, Spanish/English

<b>A</b>	
Absence Due to University Sponsored Events.....	44
Academic Clemency.....	47..
Academic Early Alert.....	46.
Academic Grievance Process.....	44
Academic Honesty.....	43..
Academic Information.....	39.
Academic Probation.....	46.
Academic Probation Transfer.....	46
Academic Programs.....	52.
Academic Progress.....	46..
Academic Success Center (Gordon Kelley).....	35
Academic Support Services.....	33
Academic Suspension.....	46.
Acceptance of Transfer Credits.....	14
Accounting.....	78..
Accounting Double Major.....	79
Accreditations.....	11..
Adding Courses/Late Registration.....	43
Admissions.....	12....
Advanced Placement.....	41..
Advising.....	34..
Alcohol/Drug Policy.....	32..
Alumni Association.....	37..
Animation Technology.....	58.
Anthropology.....	87....
Application for Graduation.....	51.
Applied Statistics.....	132
Associate of Arts.....	114
Associate of General Studies.....	115
Athletics.....	27....
Attendance.....	42..
Auditing Courses.....	43..
Automotive Technology.....	60.
<b>B</b>	
Bachelor of Applied Science.....	59
Bachelor of General Studies.....	114
Biology.....	132.
Biology w/ Life Science Teacher Licensure.....	134
Board, Administration and Faculty.....	252
Bookstore.....	35..
Boreham Library.....	35..
Business Administration.....	79.
<b>C</b>	
Calendar.....	4.....
Campus Life and Services.....	28
Campus Recreation and Wellness.....	30
Center for Business and Professional Development.....	58
Challenge Examinations.....	42.
Chancellor's Message.....	3..
Change in Student Information.....	34
Character of the University.....	8..
Chemistry.....	135.
Chemistry with Concentration in Biochemistry.....	136
Citizenship.....	18..
Classification of Students.....	40.
Code of Conduct for Students.....	32





# CAMPUS MAP

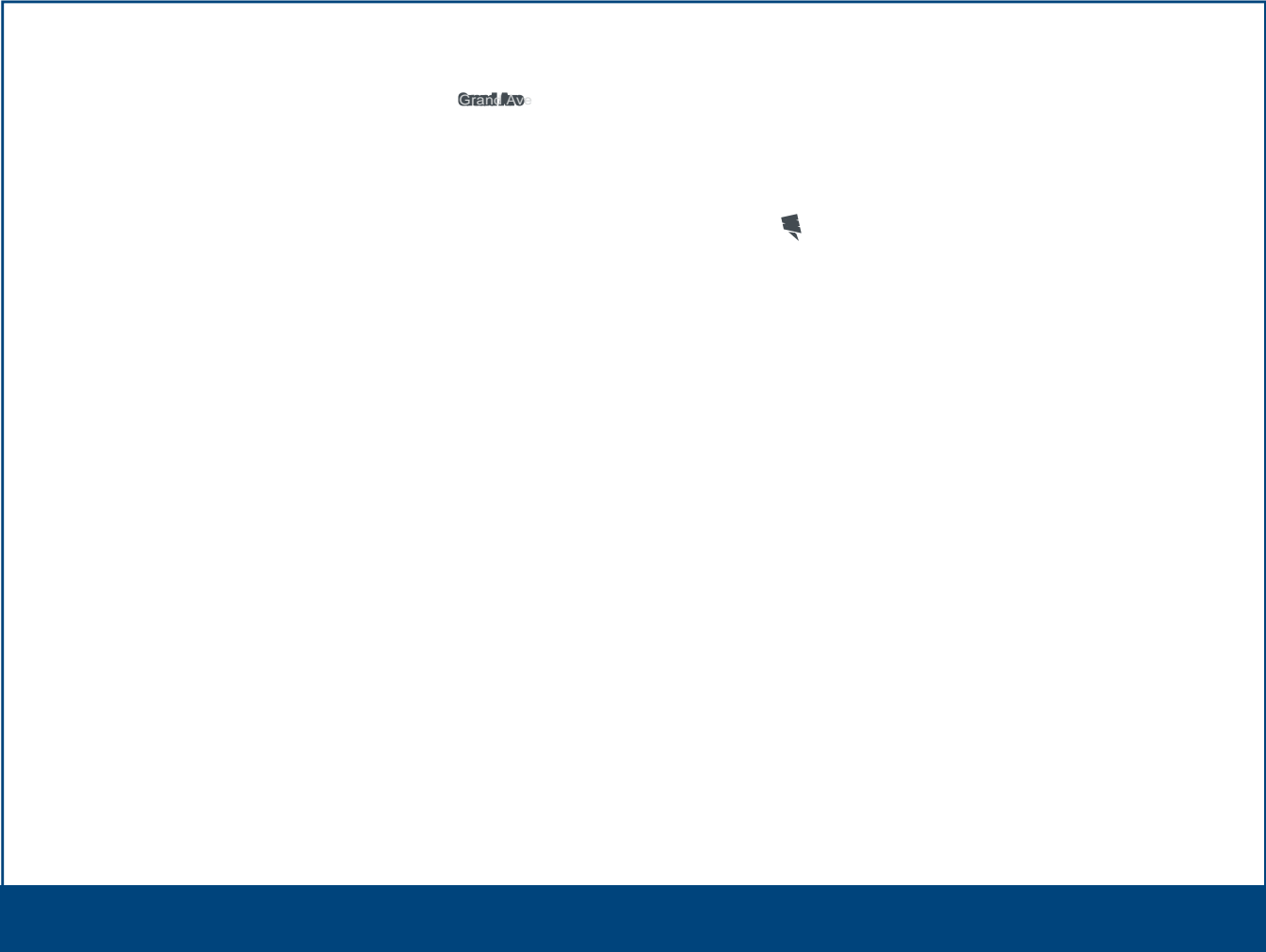


TABLE OF CONTENTS

COURSE PREREQUISITES

INDEX